

11/8/18

Pea Protein GRAS Notice

THE SAFETY AND THE GENERALLY  
RECOGNIZED AS SAFE (GRAS) STATUS  
OF THE PROPOSED USE OF PEA PROTEIN  
IN HUMAN FOOD

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June 15, 2018

# **PEA PROTEIN GRAS NOTICE**

## **Peazazz<sup>®</sup>/ Pezac<sup>®</sup>**

### **INTRODUCTION**

Burcon NutraScience Corporation has determined that the intended use of its pea protein products Peazazz<sup>®</sup> and Pezac<sup>®</sup> are Generally Recognized as Safe, based on section 201(s) of the Food Drug and Cosmetic Act and provisions of the related regulations (Subpart E of Part 170).

The pea proteins are marketed and intended for use a source of protein in foods, such as baked goods and baking mixes, beverages and beverage bases, breakfast cereals, cheeses, coffee and tea, confections and frostings, dairy product analogs, egg products, fats and oils, fish products, frozen dairy desserts, fruit and water ices, gelatins, puddings, and fillings, grain products and pastas, gravies and sauces, meat products, milk products, nut and nut products, plant protein products, poultry products, processed fruits and fruit juices, processed vegetables and vegetable juices, snack foods, soft candy, and soups and soup mixes. The pea proteins may be incorporated into food products to provide nutritional value or functionality.

The determination of GRAS status is based on scientific procedures, in accordance with 21 C.F.R. § 170.30(b) and conforms to the guidance issued in § 170.36.

### **1. ADMINISTRATIVE INFORMATION**

#### **A. Claim Regarding GRAS Status**

Burcon NutraScience Corporation is hereby submitting a GRAS notice (the “Notice”) in accordance with 21 CFR 170.255 Part 1.

This Notice based on scientific procedures, in accordance with 21 C.F.R. § 170.30(b) and conforms to the guidance issued in § 170.36.

B. Name and Address

Notifier/Manufacturer	Notifier's Agent
Burcon NutraScience Corporation 1946 West Broadway Vancouver, BC V6J 1Z2	Marc C. Sanchez, Esq. Contract In-House Counsel and Consultants LLC (d/b/a FDA Atty) 1717 Pennsylvania Ave. #1025 Washington, D.C. 20006 Ph: 202.765.4491 E-mail: msanchez@fdaatty.com

C. Common or Usual Name of GRAS Substance

The name of the notified substance is referred to as pea protein, pea protein product, pea protein concentrate or pea protein isolate. The trade names of the products are Peazazz<sup>®</sup> and Peazac<sup>®</sup>.

Peazazz<sup>®</sup> and Peazac<sup>®</sup> are products formed by purifying protein from *Pisum sativum* L.

Plant Symbol: PISA6

Common Alternate Names of *Pisum sativum* L.: garden pea, field pea, spring pea, English pea, common pea, green pea (*Pisum sativum* L. ssp. *sativum*); Austrian winter pea (*Pisum sativum* L. ssp. *sativum* var. *arvense*)

Scientific Alternate Names: *Pisum arvense* L., *Pisum humile* Boiss. & Noe, *Pisum sativum* L. ssp. *arvense* (L.)Poir., *Pisum sativum* L. var. *arvense*(L.) Poir., *Pisum sativum* L. var. *humile* Poir., *Pisum sativum* L. var. *macrocarpon* Ser., *Pisum sativum* L. ssp. *sativum*, and *Pisum sativum* L. ssp. *sativum* var. *arvense* (L.) Poir.

D. Basis for GRAS Determination

The Notifier is submitting notification to the FDA that it has concluded the intended use of pea protein as an ingredient in human food products is Generally Recognized as Safe (GRAS) based on scientific procedures as described in 21 C.F.R. § 170.30(b).

The content of this submission, as described herein, demonstrates that pea protein is GRAS for the intended use as a human food and/or food ingredient based on estimated exposure under the intended conditions of use which shows a level of use consistent with with prior GRAS notices for similar notified substances and literature pertaining to the safety of pea based protein.

E. Exemption from Food Additive Petition

Based on the information contained herein the Notifier asserts the notified substance, pea protein, is not subject to premarket approval requirements under the Food Additive Amendments of 1958 to the Food Drug and Cosmetic Act on the basis the notified substance is GRAS under the conditions of its intended use.

F. Availability of Information for FDA Review

The data and information that serve as the basis for the GRAS conclusion herein are available to the FDA and copies may be made during normal business hours at the Firm's subsidiary office located at 1388 Waller Avenue, Winnipeg, Manitoba, R3T 1P9.

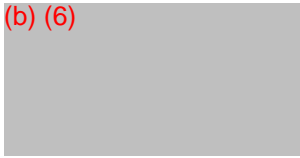
G. Exemption from Disclosure

The data and information of this GRAS notice are NOT exempt from disclosure under the Freedom of Information Act, 5 U.S.C. 552.

H. Certification

The undersigned certifies that to the best of their knowledge, this GRAS notice is a complete, representative, and balanced submission that includes unfavorable information, as well as favorable information, known to the Firm and pertinent to the evaluation of the safety and GRAS status of the use of the pea protein.

I. Name and position of Signatory

Signature	Notifier's Agent
(b) (6) 	Marc C. Sanchez, Esq. Contract In-House Counsel and Consultants LLC (d/b/a FDA Atty) 1717 Pennsylvania Ave. #1025 Washington, D.C. 20006 Ph: 202.765.4491 E-mail: msanchez@fdaatty.com

## 2. PRODUCT IDENTITY AND SPECIFICATIONS

### A. Peazazz® & Peazac® General Description

Burcon NutraScience Corporation produces Peazazz® and Peazac® through an aqueous process that involves initial separation of a protein solution from residual pea materials followed by a pH adjustment step and separation step to provide an acidified protein solution that is further processed to provide Peazazz®. The residual material separated from the acidified protein solution is further processed to provide Peazac®. Both the final products are dried powders. The protein content of Peazazz® is higher than that of Peazac®.

### B. Intended Use

Burcon NutraScience Corporation intends the use of Peazazz® and Peazac® in conventional food products including baked goods and baking mixes, beverages and beverage bases, breakfast cereals, cheeses, coffee and tea, confections and frostings, dairy product analogs, egg products, fats and oils, fish products, frozen dairy desserts, fruit and water ices, gelatins, puddings, and fillings, grain products and pastas, gravies and sauces, meat products, milk products, nut and nut products, plant protein products, poultry products, processed fruits and fruit juices, processed vegetables and vegetable juices, snack foods, soft candy, and soups and soup mixes.. Full details of the food uses and estimated dietary intake are provided in the report attached at section 3.D.

### C. Product Specifications

#### i. Sensory Characteristics

Assay	Peazazz®	Peazac®	Method of analysis
Appearance	off white/slight yellow colored powder	light yellow-beige colored powder	Visual
Taste	bland, very low in or free of characteristic pea flavor notes	mild characteristic pea flavor notes	Organoleptic
Odor	clean	clean	Organoleptic

*Table 1 Sensory Characteristics*

#### ii. Physical Characteristics

Parameter	Peazazz®	Peazac®	Method of analysis
Through 80 mesh	100%	100%	Sieving
Bulk density	0.15-0.50 g/ml	0.40-0.65 g/ml	gravimetric
pH	2.5-8.0	5.0-8.0	In-house

*Table 2 Physical Characteristics*

iii. Specifications

1. Proximates

Parameter	Peazazz <sup>®</sup>	Peazac <sup>®</sup>	Method of analysis
Protein, d.b. (N x 6.25)	Min. 85%	Min. 65 %	modified AOAC Ba 4e-93
Moisture	Max. 8%	Max. 8%	AOAC 930.15; in-house oven method
Fat (ether method), d.b.	Max. 1%	Max. 6%	AOCS Am 5-04
Fibre, d.b.	Max. 1%	Max. 2%	AOCS Ba 6a-05
Ash, d.b. <sup>1</sup>	Max 12%	Max 12%	AOAC 923.03

Table 3 Proximates

2. Microbiology

Parameter	Peazazz <sup>®</sup>	Peazac <sup>®</sup>	Method of analysis
Standard plate count	Max. 50,000 cfu/g	Max. 50,000 cfu/g	MFHPB-18
Salmonella	Negative	Negative	MFHPB-20
Total coliforms	Max. 10 mpnu/g	Max. 10 mpnu/g	MFHPB-19
E. coli	Max. <2 mpnu/g	Max. <2 mpnu/g	MFHPB-19
Yeast	Max. 100 cfu/g	Max. 100 cfu/g	MFHPB #22
Mold	Max. 100 cfu/g	Max. 100 cfu/g	MFHPB #22
Staphylococcus aureus	Max. <5 cfu/g	Max. <5 cfu/g	MFHPB-21

Table 4 Microbiology

3. Heavy Metals

Parameter	Peazazz <sup>®</sup>	Peazac <sup>®</sup>	Method of analysis
Lead	<0.2 mg/kg	<0.2 mg/kg	ICP-MS EPA 3050B/6020 or EPA 3050/6020, USP730 – M-C043/M-C032d
Arsenic	<0.1 mg/kg	<0.1 mg/kg	ICP-MS EPA 3050B/6020 or EPA 3050/6020, USP730 – M-C043/M-C032d
Cadmium	<0.2 mg/kg	<0.2 mg/kg	ICP-MS EPA 3050B/6020 or EPA 3050/6020, USP730 – M-C043/M-C032d
Mercury	<0.1 mg/kg	<0.1 mg/kg	Cold Vapor 7471B EPA or ICP-MS EPA 3050/6020, USP730 – M-C043/M-C032d

Table 5 Heavy Metals

<sup>1</sup> See, e.g., *Food Analysis*, Nielsen, Suzanne (Ed.) (2017) (noting the ash content of foods can range from 0 to 12% (Sec. 16.1.3)).



iv. Analyses

Analyses were done on representative, individual batches of product or blends of such batches. The batches in the blends were different batches than the individual ones reported in the same table.

Additionally, Appendix II includes a review and Certificates of Analysis completed by Merieux NutraSciences.

1a) Proximates – Peazazz®

Parameter	Peazazz® Batch Code				
	YP27-C16-15A YP810N	YP27-D01-15A YP810N	YP36-D18-17A YP810NL-01	YP36-D24-17A YP810NL	Blend 81
Protein, d.b. (N x 6.25) (%)	88.87	93.64	91.97	93.69	91.20
Moisture (%)	5.68	5.50	5.86	5.33	5.29
Fat (ether method) (% d.b.)	0.32	0.42	0.54	0.26	0.00
Fibre (% d.b.)	0.00	0.00	0.14	0.33	0.36
Ash (% d.b.)	9.03	7.82	5.82	6.69	7.54

Table 6 Proximates Peazazz®

1b) Proximates - Peazac®

Parameter	Peazac® Batch Code		
	YP29-E30-16A YP810PA	YP35-F16-16A YP810PA	Blend 33
Protein, dry basis (N x 6.25) (%)	77.21	79.68	79.14
Moisture (%)	5.16	4.57	4.35
Fat (ether method) (% d.b.)	4.29	4.56	3.78
Fibre (% d.b.)	1.55	1.33	1.40
Ash (% d.b.)	7.12	8.29	7.61

Table 7 Proximates Peazac®

2a) Microbiology – Peazazz®

<i>Parameter</i>	Peazazz® Batch Code				
	YP36-D18-17A YP810NL-01	YP36-D24-17A YP810NL	YP38-L11-17A YP810NL	YP39-D16-18A YP810NL	Blend 81
Standard plate count (cfu/g)	370	310	220	2,700	270
Yeast (cfu/g)	10	<5	<5	<5	<5
Mold (cfu/g)	<5	<5	<5	<5	<5
E. coli (mpnu/g)	<2	<2	<2	<2	<2
Total coliforms (mpnu/g)	<2	<2	<2	<2	<2
Staphylococcus aureus (cfu/g)	<5	<5	<5	<5	<5
Salmonella	negative	negative	negative	negative	negative

Table 8 Microbiology Peazazz®

2b) Microbiology - Peazac®

<i>Parameter</i>	Peazac® Batch Code				
	YP29-E30-16A YP810PA	YP35-F16-16A YP810PA	YP36-A09-17A YP810PA	YP36-B01-17A YP810PA	Blend 33
Standard plate count (cfu/g)	40,000	600	6,000	28,000	5,600
Yeast (cfu/g)	<5	<5	<5	<5	5
Mold (cfu/g)	15	5	<5	<5	35
E. coli (mpnu/g)	<2	<2	<2	<2	<2
Total coliforms (mpnu/g)	<2	<2	<2	<2	<2

Staphylococcus aureus (cfu/g)	not determined	<5	not determined	<5	<5
Salmonella	not determined	negative	not determined	negative	negative

Table 9 Microbiology Peazazz®

3a) Heavy Metals – Peazazz®

Parameter (ppm w/w)	Peazazz® Batch Code		
	YP28-D11-16A YP810N	YP29-D21-16A YP810N	Blend 94
Lead	0.02*	<0.01*	0.02***
Arsenic	<0.05*	<0.05*	<0.01***
Cadmium	0.0096*	0.0081*	0.001***
Mercury	<0.002**	<0.002**	<0.005***

Table 10 Heavy Metals Peazazz®

\* Method of analysis - ICP-MS EPA 3050B/6020

\*\*Method of analysis - Cold Vapor 7471B EPA

\*\*\* Method of analysis - ICP-MS EPA 3050/6020, USP730 - M-C043/M-C032d

3b) Heavy Metals – Peazac®

Parameter (ppm w/w)	Peazac® Batch Code	
	YP36-A18-17A YP810PA	Blend 33
Lead	0.04* <sup>2</sup>	0.02**
Arsenic <sup>3</sup>	<0.01*	<0.05**
Cadmium	0.041* <sup>4</sup>	0.015**

<sup>2</sup> This level would result in exposure below the FDA Maximum Daily Intake level of 6 µg/day even in a worst-case scenario where the highest intake of pea protein is by male teenagers, consuming 59.76 g/day (90th percentile), which would mean consumption of 3.98 µg/day (<https://www.fda.gov/Food/FoodborneIllnessContaminants/Metals/ucm557424.htm>).

<sup>3</sup> These levels are consistent with levels permitted in GRN 386 for Canola protein.

<sup>4</sup> This level would result in exposure well below the maximum tolerable daily intake for cadmium of 55 µg for an adult suggested by the FDA

Mercury <sup>5</sup>	<0.005*	<0.002***
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Table 11 Heavy Metals Peazazz<sup>®</sup>

\* Method of analysis - ICP-MS EPA 3050/6020, USP730 - M-C043/M-C032d

\*\* Method of analysis - ICP-MS EPA 3050B/6020

\*\*\*Method of analysis - Cold Vapor 7471B EPA

4a) Phytic acid - Peazazz<sup>®</sup>

	Peazazz <sup>®</sup> Batch Code				
<i>Parameter</i>	YP27-C16-15A YP810N	YP27-D01-15A YP810N	YP36-D18-17A YP810NL-01	YP36-D24-17A YP810NL	Blend 81
Phytic acid (% d.b.)	3.40	2.30	2.06	2.25	4.26

Table 12 Phytic Acid Peazazz<sup>®</sup>

Method of analysis - Latta and Eskin (J. Agric. Food Chem., 28: 1313-1315)

4b) Phytic acid - Peazac<sup>®</sup>

	Peazac <sup>®</sup> Batch Code				
<i>Parameter</i>	YP29-E30-16A YP810PA	YP35-F16-16A YP810PA	YP36-A09-17A YP810PA	YP36-B01-17A YP810PA	Blend 33
Phytic acid (% d.b.)	1.06	1.01	0.93	0.75	1.48

Table 13 Phytic Acid Peazac<sup>®</sup>

Method of analysis - Latta and Eskin (J. Agric. Food Chem., 28: 1313-1315)

5a) Mineral content – Peazazz<sup>®</sup>

	Peazazz <sup>®</sup> Batch Code				
<i>Parameter</i> (% w/w)	YP27-C16-15A YP810N	YP27-D01-15A YP810N	YP36-D18-17A YP810NL-01	YP36-D24-17A YP810NL	Blend 81
Na	2.18	1.85	1.03	1.03	1.96
P	1.21	0.79	0.87	0.95	1.43

<sup>5</sup> These levels would result in exposure well below the proposed European Tolerable Weekly Intake levels proposed for methylmercury which is 1.3 µg/kg bw (EFSA, Mercury in food (2012)); in a worst-case scenario the highest intake would be <0.126 µg/kg bw/week.

K	1.78	2.13	0.01	0.01	1.66
Ca	0.00	0.01	0.00	0.00	0.01
Fe	0.01	0.02	0.02	0.01	0.01

Table 14 Mineral Content Peazazz®

Method of Analysis – AOAC 968.08, 935.13A

5b) Mineral content – Peazac®

Parameter (% w/w)	Peazac® Batch Code		
	YP29-E30-16A YP810PA	YP35-F16-16A YP810PA	Blend 33
Na	0.43	0.75	0.45
P	1.06	1.11	0.94
K	0.68	0.75	0.60
Ca	0.01	0.03	0.02
Fe	0.01	0.02	0.01

Table 15 Mineral Content Peazac®

Method of Analysis – AOAC 968.08, 935.13A

6a) Amino acid profile – Peazazz®

Parameter (g/100 g protein)	Peazazz® Batch Code				
	YP27-D22- 15A YP810N	YP36-B28- 17A YP810N	Blend 81	Blend 83	Blend 88
aspartic acid	11.1	12.2	11.9	11.5	12.2
threonine	3.9	4.3	4.1	4.0	4.3
serine	4.8	5.1	5.0	5.0	5.1
glutamic acid	16.8	17.3	17.3	16.8	17.2
proline	4.2	4.3	4.2	4.0	4.3
glycine	4.1	4.3	4.3	4.2	4.4
alanine	4.5	4.7	4.7	4.4	4.8
valine	4.8	4.9	4.9	4.7	4.9
isoleucine	4.4	4.7	4.6	4.5	4.7

leucine	7.4	7.9	7.6	7.5	8.0
tyrosine	3.9	4.2	4.0	3.9	4.2
phenylalanine	5.0	5.1	5.1	5.1	5.2
lysine	7.8	8.2	8.1	7.8	8.2
histidine	2.5	2.6	2.5	2.4	2.6
arginine	8.4	8.3	8.4	8.2	8.3
cystine	0.8	0.9	1.0	1.0	1.0
methionine	1.0	1.1	1.1	1.0	1.1
tryptophan	0.8	0.9	0.9	0.9	0.9

*Table 16 Amino Acid Profile Peazazz®*

Method of analysis - Schuster, J. Chromatogr., 431:271-284; Henderson et al., Agilent Publications, 2000; Barkholt and Jensen, Anal. Biochem., 177: 318-322; AOAC 988.15

6b) Amino acid profile – Peazac®

	Peazac® Batch Code
<i>Parameter</i> (g/100 g protein)	Blend 33
aspartic acid	10.7
threonine	3.7
serine	4.9
glutamic acid	15.3
proline	3.9
glycine	3.9
alanine	4.0
valine	4.7
isoleucine	4.6
leucine	8.0
tyrosine	3.7
phenylalanine	5.1
lysine	7.2
histidine	2.1
arginine	7.9
cystine	0.8
methionine	1.0
tryptophan	0.9

*Table 17 Amino Acid Profile Peazac®*

Method of analysis = Schuster, J. Chromatogr., 431:271-284; Henderson et al., Agilent Publications, 2000; Barkholt and Jensen, Anal. Biochem., 177: 318-322; AOAC 988.15

7a) Mycotoxins – Peazazz<sup>®</sup>

<i>Parameter</i> (all ppb w/w)	Peazazz <sup>®</sup> Batch Code		
	YP28-D11-16A YP810N*	YP29-D21-16A YP810N*	YP38-L11-17A YP810NL**
Aflatoxin B1	<0.7	<0.7	<0.5
Aflatoxin B2	<0.9	<0.9	<0.3
Aflatoxin G1	<0.7	<0.7	<0.7
Aflatoxin G2	<0.8	<0.8	<0.9
Deoxynivalenol	not determined	not determined	<10
Fumonisin B1	not determined	not determined	<4
Fumonisin B2	not determined	not determined	<10
Fumonisin B3	not determined	not determined	<8
Ochratoxin	not determined	not determined	4.8 <sup>6</sup>
T-2 Toxin	not determined	not determined	<9
Zearalenone	not determined	not determined	<7

Table 18 Mycotoxins Peazazz<sup>®</sup>

\* Method of analysis - US-Aflatoxins HPLC 37-2-LWI

\*\*Method of analysis - WGFCLMM BFCL050 v2 - M-H561

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<sup>6</sup> This level would result in exposure well below the proposed European Tolerable Weekly Intake levels for Ochratoxin A which is 120 ng/kg body weight (EFSA, Ochratoxin A (2006)); in a worse-case scenario the highest intake would be 91.42 ng/kg bw/week.



7b) Mycotoxins – Peazac®

<i>Parameter</i> (ppm w/w)	Peazac® Batch Code	
	YP36-A18-17A YP810PA*	Blend 33**
Aflatoxin B1	<0.5	<0.7
Aflatoxin B2	<0.3	<0.9
Aflatoxin G1	<0.7	<0.7
Aflatoxin G2	<0.9	<0.8
Deoxynivalenol	<10	not determined
Fumonisin B1	<4	not determined
Fumonisin B2	<10	not determined
Fumonisin B3	<8	not determined
Ochratoxin	<0.8	not determined
T-2 Toxin	<9	not determined
Zearalenone	<7	not determined

Table 19 Mycotoxins Peazac®

\* Method of analysis - WGFCLMM BFCL050 v2 - M-H561

\*\* Method of analysis - US-Aflatoxins HPLC 37-2-LWI

8a) Pesticides – Peazazz®

<i>Parameter</i> (all ppb w/w)	Peazazz® Batch Code		
	YP38-L11-17A YP810NL	YP39-D16-18A YP810NL	YP40-D18-18A YP810NL
AMPA*	<0.01	<0.01	<0.01
Glyphosate*	<0.005	<0.005	<0.005
Other pesticide scan residues**	all below detection	all below detection	all below detection

Table 20 Pesticides Peazazz®

\*Method of analysis – M-H580

\*\*Method of analysis - CFIA PMR-006-v1.0 – M-H553. Please see attached reports for complete list of residues tested for

8b) Pesticides – Peazac<sup>®</sup>

Parameter (all ppm w/w)	Peazac <sup>®</sup> Batch Code		
	YP36-A09-17A YP810PA	YP36-A18-17A YP810PA	YP36-B01-17A YP810PA
AMPA	<0.01	<0.01	<0.01
Glyphosate	<0.005	<0.005	0.062
Other pesticide scan residues*	all below detection	all below detection	all below detection

Table 21 Pesticides Peazac<sup>®</sup>

\*Method of analysis – M-H580

\*\*Method of analysis - CFIA PMR-006-v1.0 – M-H553. Please see attached reports for complete list of residues tested for

v. Labeling and Storage Information

Label Declaration: Pea Protein

Lot coding: Products are coded with an alphanumeric code containing the date of production, product code and the internal code that represents pea as the starting material. A batch number may also be included into the lot code.

Packaging: Packed in poly lined 20L pails or poly lined 20kg bags

Storage conditions: Should be stored in a cool, dry location and in the original sealed package away from odorous material.

Shelf life: The shelf is a minimum of 18 months

vi. Allergens

The allergen declaration for both Peazazz<sup>®</sup> and Peazac<sup>®</sup> is as follows:

Component	Present in the product	Present in other products produced on the same line	Present in the same plant
1. Barley, Rye, Oats	NO	NO	NO
2. Celery (not including seeds)	NO	NO	NO
3. Corn	NO	NO	NO

4. Egg or egg product	NO	NO	NO
5. Fish	NO	NO	NO
6. Milk & Milk by-product	NO	NO	NO
7. Monosodium Glutamate (MSG)	NO	NO	NO
8. Peanuts or peanut products	NO	NO	NO
9. Seeds (Poppy, Sunflower, Cottonseed)	NO	NO	NO
10. Sesame Seeds	NO	NO	NO
11. Shell Fish & Crustaceans	NO	NO	NO
12. Soybean Oil (excluding refined soy oil)	NO	NO	NO
13. Soybean (not including oil)	NO	YES	YES
14. Sulphites (enter maximum ppm)	NO	NO	NO
15. Tree Nuts	NO	NO	NO
16. Wheat or wheat products	NO	NO	NO
17. Gluten < 10 ppm	NO	NO	NO
17. Yellow 5 (Tartrazine)	NO	NO	NO
18. Animal Fat	NO	NO	NO
19. Grains containing gluten	NO	NO	NO
20. Mustard/Canola	NO	YES	YES
21. Lupin	NO	NO	NO
22. Lactose	NO	NO	NO

*Table 22 Allergens*

# MANUFACTURING PROCESS

## A. Process Flow Chart

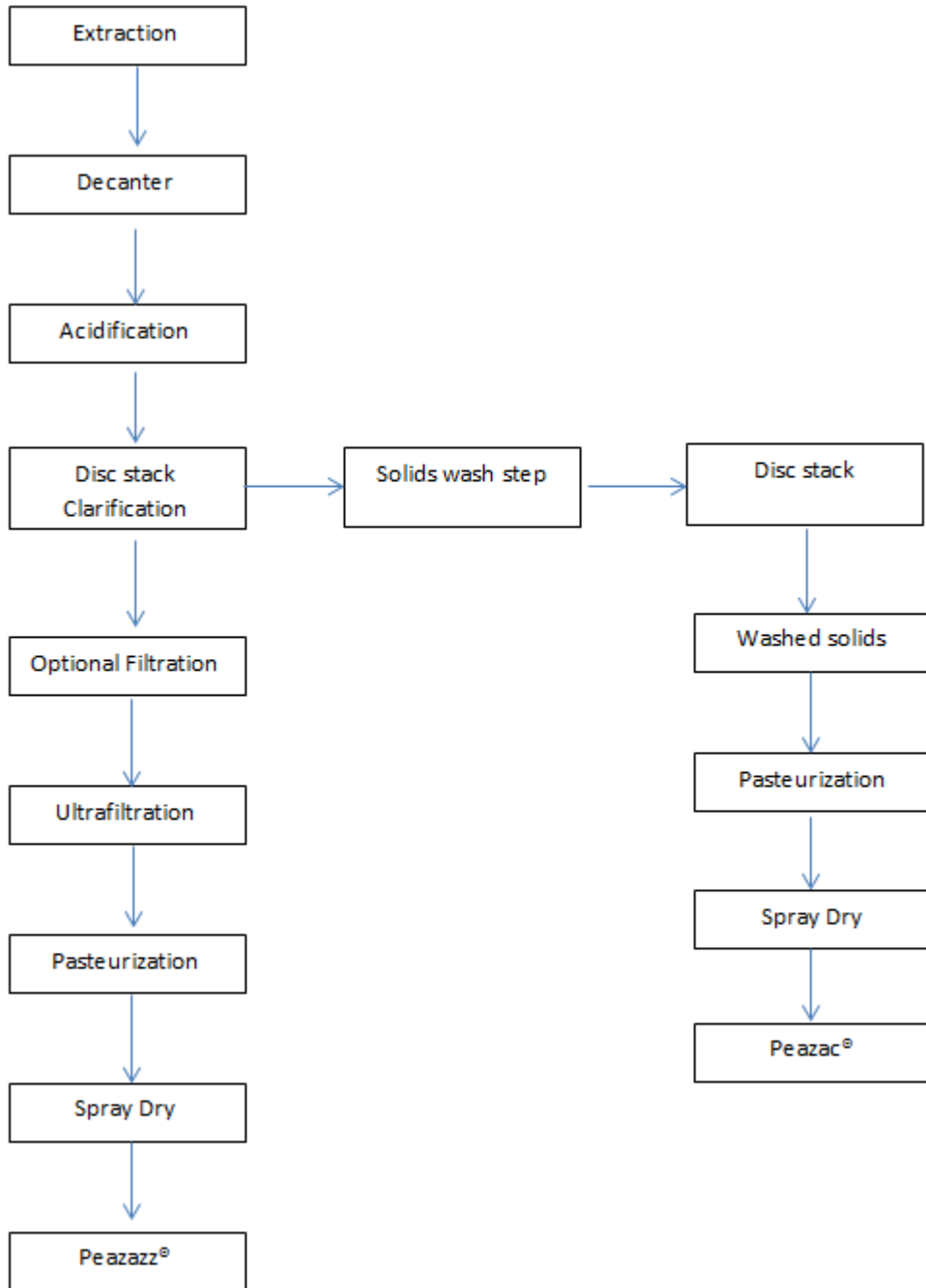


Figure 1 Manufacturing Flowchart

## B. Safety of Substances used in the Manufacture of Peazazz® & Pezac®

All of the raw materials and ingredients used in the manufacture of Peazazz® and Pezac® are food grade. No chemical solvents are utilized for the manufacture of Peazazz® and Pezac®. The following ingredients are used in the production process:

- a. Pea flour
- b. Water
- c. Food grade acid (e.g. hydrochloric acid)
- d. Food grade alkali (e.g. sodium hydroxide, potassium hydroxide)
- e. Calcium chloride (optional)

## C. Manufacturing Process Details

The first step of the process is an aqueous extraction of pea protein source. The pea protein source is typically pea flour or air classified pea flour, which is available as a food ingredient. The extraction slurry is passed through a decanter centrifuge to remove solids material. The solids material contains primarily insoluble starches, fiber and proteins and can be dried as a feed material. The liquid extract is acidified to a pH of less than 3.4 by the addition of a food grade acid, solubilizing the majority of the proteins in the extract. The now acidified extract is then passed through a disc stack centrifuge to remove insoluble protein and other residual solids material.

This solids material is collected, washed, re-collected, pasteurized and then spray dried. The obtained powder is a pea protein concentrate with the trade name Pezac®. A neutralization step may also be employed in the process in order to produce a neutral pH version of Pezac®.

The liquid fraction from the first disc stack separation step is collected and may be further lowered in pH and/or (micro-)filtered to further clarify the solution before being concentrated and diafiltered on an ultrafiltration system. The retentate from the concentration step is pasteurized and then spray dried. The obtained powder is a pea protein isolate with the trade name Peazazz®. A neutralization step may also be employed in the process in order to produce a neutral pH version of Peazazz®.

Optionally, a variation of the process may be performed where the addition of calcium chloride rather than acidification is employed to induce the protein split.

Optionally, food grade enzymes may be added in the process either prior to the pasteurization steps in each product line or prior to the acidification step in order to reduce viscosity and increase solubility of the proteins according to customer requirements. If enzymes are added prior to the acidification step a heat treatment step sufficient to ensure inactivation of enzymes will be added as well. If enzymes are added prior to the pasteurization steps, the pasteurization temperature will be chosen so as to ensure inactivation of the enzymes. Enzymes may be used to achieve a desired specific functionality of the Peazazz® and Pezac® pea proteins and this variable is not considered significant to change the GRAS status of these pea protein products.

Both Peazazz<sup>®</sup> and Peazac<sup>®</sup> pea proteins are manufactured under food GMP conditions.

The above flow chart illustrates the production process of Peazazz<sup>®</sup> and Peazac<sup>®</sup>.

#### D. Discussion on Why Notice is Not Duplicative

This notice concerns pea protein, which is the same or similar notified substance as GRNs 581 (PURISPea<sup>™</sup> from World Food Processing) and 608 (VegOtein<sup>™</sup> from Axiom Foods), but is not duplicative for the following reasons:

##### *Number of products produced*

The procedures of GRN 581 and GRN 608 give rise to individual pea protein products. The Peazazz<sup>®</sup>/Peazac<sup>®</sup> process provides two separate pea protein products of differing attributes from a single extraction of pea protein source material.

##### *Food categories/use levels/estimated exposure*

Differences may be seen between the food categories and use levels for Peazazz<sup>®</sup>/Peazac<sup>®</sup> compared to the products of GRN 581 or GRN 608. As well, the estimated exposure for Peazazz<sup>®</sup>/Peazac<sup>®</sup> differs from that reported in the prior notices. Please see the attached Dietary Intake Summary report for specific details of the Peazazz<sup>®</sup>/Peazac<sup>®</sup> food categories, use levels and estimated intakes. Please note that the Dietary Intake calculations were done on the basis of protein supplied by Peazazz<sup>®</sup> or Peazac<sup>®</sup>. Conversion of the values to amount of Peazazz<sup>®</sup> or Peazac<sup>®</sup> powder is done on the basis of the protein content of the ingredients.

##### *Manufacturing method*

GRN 581 describes that pea proteins are extracted from pea flour by mixing the flour with water and then increasing the pH slightly. The extraction slurry is centrifuged to separate the soluble fraction containing the pea protein from the insoluble fiber and starch. The soluble protein is then coagulated by pH adjustment to the isoelectric point and the coagulated protein curd goes through a wash step, neutralization, enzyme treatment, heat treatment and drying.

GRN 608 describes that raw peas are sifted, dehulled and then a centrifugation step is employed to separate protein and starch. The protein fraction is further concentrated by centrifugation, then washed, dried and sterilized at a temperature of at least 80°C for approximately 2 hours.

The Peazazz<sup>®</sup>/Peazac<sup>®</sup> process is described in the section above. Major features that distinguish the Peazazz<sup>®</sup>/Peazac<sup>®</sup> process from those described in GRN 581 and 608 are:

- As mentioned, the Peazazz<sup>®</sup>/Peazac<sup>®</sup> process gives rise to two distinct products, whereas the procedures of GRN 581 and 608 give rise to one product.

- The Peazazz<sup>®</sup>/Peazac<sup>®</sup> process does not employ precipitation of protein at the isoelectric point as does the GRN 581 procedure.
- Purification of the acid soluble protein solution in the Peazazz<sup>®</sup>/Peazac<sup>®</sup> process is achieved by membrane processing, a technology not described in GRN 581 or 608.

*Purity*

Both GRN 581 and GRN 608 indicate a minimum dry basis protein content of 80%. Actual analyses in Table 4 of GRN 608 show the protein content of the Pea Protein Concentrate as being between 81.4% and 81.6%. Peazazz<sup>®</sup> has a minimum protein content of 85% d.b. (N x 6.25), but typically contains greater than 90% protein d.b. (N x 6.25). The specification for the protein content of Peazac<sup>®</sup> is lower, at 65% protein d.b. (N x 6.25), but this product typically contains greater than 75% protein d.b. (N x 6.25).

For these reasons this Notice may be considered since it is not duplicative.

### 3. CONDITIONS OF INTENDED USE IN FOOD

#### A. Overview of Consumption

Peazazz® and Pezac® are to be used in a variety of categories of conventional food products including baked goods and baking mixes, beverages and beverage bases, breakfast cereals, cheeses, coffee and tea, confections and frostings, dairy product analogs, egg products, fats and oils, fish products, frozen dairy desserts, fruit and water ices, gelatins, puddings and fillings, grain products and pastas, gravies and sauces, meat products, milk products, nut and nut products, plant protein products, poultry products, processed fruits and fruit juices, processed vegetable and vegetable juices, snack foods, soft candy, and soups and soup mixes. For full details please see the contents of sections 3.C. and 3.D. below.

#### B. Functional Benefit in Food

Peazazz® and Pezac® may be may be incorporated into food products to provide nutritional value or functionality.

#### C. Application of Usage Estimates

<b>Food Category</b>	<b>Level of use Peazazz® or Pezac® (g <u>protein</u>/100g of food as consumed)</b>
Baked Goods and Baking Mixes	2-15
Beverages and Beverage Bases	2-20
Breakfast Cereals	4-10
Cheeses	10
Coffee and Tea	8
Confections and Frostings	2
Dairy Product Analogs	8-35
Egg Products	5-20
Fats and Oils	1-4



Fish Products	5
Frozen Dairy Desserts	8
Fruit and Water Ices	1
Gelatins, Puddings and Fillings	4-5
Grain Products and Pastas	2-35
Gravies and Sauces	1-4
Meat Products	3-5
Milk Products	2-10
Nut and Nut Products	4
Plant Protein Products	35
Poultry Products	5
Processed Fruits and Fruit Juices	2-6
Processed Vegetables and Vegetable Juices	2-6
Snack Foods	1-2
Soft Candy	2
Soups and Soup Mixes	2

*Table 23 Food Categories*

D. Exposure Estimates – Intertek Report

Appendix I contains the exposure estimates completed by Intertek Scientific & Regulatory Consultancy Health, Environmental & Regulatory Services (HERS).

#### 4. SELF-LIMITING LEVELS OF USE

The individual proposed food-uses and use-levels for Peazazz<sup>®</sup> and Pezac<sup>®</sup> (as protein) employed in the current intake analysis are summarized in Table 3-1. For discussion purposes, the highest level of inclusion and highest levels of consumption have been used to estimate exposure to pea protein. The self-limiting level of use is independent of safety (toxicity, allergenic, etc.) concerns.

When used as an ingredient, the level of use of pea protein is variable but is self-limiting due to sensory and technical limitations so it is not expected to exceed the amounts proposed in Table 23.

## 5. BASIS FOR CONCLUSION OF GRAS STATUS HISTORY OF USE

### **This Section is NOT Applicable**

## 6. BASIS FOR CONCLUSION OF GRAS STATUS SCIENTIFIC PROCEDURES (NARRATIVE)

### A. Incorporation of Data Under 21 CFR 170.215

Pursuant to 21 CFR 170.215 this Notice incorporates all safety data and discussion of such data from GRN 581 and 608, which are publicly available data and information submitted by another party and currently in CFSAN's records.

### B. Relevance of Data Incorporated Under 21 CFR 170.215

The safety data and discussion of such data incorporated under 21 CFR 170.215 is relevant and applicable because GRN 581, 608, and this Notice all involve a pea protein product. Although the manufacturing method is different and results in a purer pea protein with a higher concentration of protein (Peazazz<sup>®</sup>), the source material is pea. The estimated exposure for Peazazz<sup>®</sup>/Peazac<sup>®</sup> is higher than that reported in the prior notices. This is not in every category and no use exceeds the levels identified as in the literature.

Therefore, the safety data and narrative in GRNs 581 and 608 are directly relevant to this Notice.

### C. Human consumption of Pea Proteins

Pea protein is extracted from green and yellow peas (*Pisum sativum*) and used as a protein supplement and protein-enrichment for conventional foods. It is popular for vegetarians and vegans seeking a protein not derived from dairy (such as casein and whey proteins), eggs, or meat. Peas are an important protein source for people in parts of Asia. As noted in previous notices there is a common knowledge of a long history of pea consumption. Both GRN 581 and 608 reference a discussion in the literature of pea as one of the earliest food crops.

Globally, there were 170 products containing pea protein isolate launched between January 2011 and December 2015: 143 in the food category, and 36 in the drink category (Agriculture and Agri-Food Canada, 2016).

Pea protein is not only a historically cultivated and eaten food but an increasingly popular and safe source of protein.

#### D. Safety Data

##### *Summary*

The results of available limited animal and human studies do not indicate any potential for adverse effects from consuming pea protein. The totality of the available evidence from dietary consumption of peas for centuries and from the scientific literature is that consumption is safe and not dissimilar from the current intake of peas as a staple. The substantial equivalence of Burcon NutraScience Corporation's pea protein product with other similarly marketed GRAS protein concentrates or isolates, and other limited safety studies reviewed in this document, suggest that consumption of pea protein from the intended uses of Peazazz<sup>®</sup> and Peazac<sup>®</sup> at uses ranging from the mean and 90th percentile consumer-only intakes of protein from 1-35g protein/100g of food as consumed is safe.

##### *Allergenicity*

Pea Protein is not a major allergen (Food Allergen Labeling and Consumer Protection Act of 2004). Peas are unlikely allergens and do not aggravate lactose intolerance. Peas are in the legume family, and people with allergies to other legumes like peanuts and soybeans may have allergenic response to legumes that may range from mild skin reactions to life-threatening anaphylactic reactions. The available information indicates that, although people with peanut allergies may also be sensitive to peas, allergic reactions to peas are rare and the frequency to pea allergy varies among different populations.

##### *Studies Since GRN 608*

A review of the literature since GRN 608 was submitted is summarized in the table below. The limited new animal and human studies do not raise any new potential for adverse effects from consuming pea protein.

1. Munialo, C.D., Martin, A.H., van der Linden, E. and de Jongh, H.H.J. 2014. Fibril formation from pea protein and subsequent gel formation. *J. Agric. Food Chem.*, 62: 2418-2427.

The objective of this study was to characterize fibrillar aggregates made using pea proteins, to assemble formed fibrils into protein-based gels, and to study the rheological behavior of these gels. Micrometer-long fibrillar aggregates were observed after pea protein solutions had been heated for 20 h at pH 2.0. Following heating of pea proteins, it was observed that all of the proteins were hydrolyzed into peptides and that 50% of these peptides were assembled into fibrils. The findings show that the fibril formation mechanism in plant storage proteins seems to be generic as pea protein fibrils were comparable to soy protein fibrils. Thus, pea protein can effectively be used as a possible

replacement for other globular proteins such as soy protein as a structural food ingredient in protein-based fibrillar gels.

2. Mollard, R.C., Luhovyy, B.L., Smith, C. and Anderson, G.H. 2014. Acute effects of pea protein and hull fibre alone and combined on blood glucose, appetite, and food intake in healthy young men – a randomized crossover trial. *Appl. Physiol. Nutr. Metab.*, 39: 1360-1365.

Whether pulse components can be used as value-added ingredients in foods formulated for blood glucose (BG) and food intake (FI) control requires investigation. The objective of this study was to examine the effects of pea components on FI at an ad libitum meal, as well as appetite and BG responses before and after the meal. In a repeated-measures crossover trial, men (n = 15) randomly consumed (i) pea hull fibre (7 g), (ii) pea protein (10 g), (iii) pea protein (10 g) plus hull fibre (7 g), (iv) yellow peas (406 g), and (v) control. Pea hull fibre and protein were served with tomato sauce and noodles, while yellow peas were served with tomato sauce. Control was noodles and tomato sauce. FI was measured at a pizza meal (135 min). Appetite and BG were measured pre-pizza (0-135 min) and post-pizza (155-215 min). Protein plus fibre and yellow peas led to lower pre-pizza BG area under the curve compared with fibre and control. At 30 min, BG was lower after protein plus fibre and yellow peas compared with fibre and control, whereas at 45 and 75 min, protein plus fibre and yellow peas led to lower BG compared with fibre (p < 0.05). Following the pizza meal (155 min), yellow peas led to lower BG compared with fibre (p < 0.05). No differences were observed in FI or appetite. This trial supports the use of pea components as value-added ingredients in foods designed to improve glycemic control.

3. Rubio, L.A., Perez, A., Ruiz, R., Guzman, M.A., Aranda-Olmedo, I. and Clemente, A. 2014. Characterization of pea (*Pisum sativum*) seed protein fractions. *J. Sci. Food Agric.*, 94: 280-287.

In vitro digestibility study finding the values for pea proteins were similar to or even numerically higher than those for control proteins. The methodology employed, to test in vivo and for their nutritional or physiological effects, proteins from legume seeds were (1) extracted in sufficient amounts for their inclusion in diets for experimental animals and (2) chemically characterized so that their putative effects in vivo can be related to their chemical structure. Accordingly, pea (*P. sativum* cv. Bilbo) seed meal was subjected to a chemical procedure to isolate and characterize its constituent albumins and globulins before these fractions are eventually utilized in in vivo trials

4. Eslinger, A.J., Eller, L.K. and Reimer, R.A. 2014. Yellow pea fiber improves glycemia and reduces *Clostridium leptum* in diet-induced obese rats. *Nutrition Res.*, 34: 714-722.

Numerous studies have demonstrated the impact of functional fibers on gut microbiota and metabolic health, but some less well-studied fibers and/or fractions of foods known to be high in fiber still warrant examination. The aim of this study was to assess the effect of yellow pea-derived fractions varying in fiber and protein content on metabolic parameters and gut microbiota in diet-induced obese rats.

5. Babault, N., Paizis, C., Deley, G., Guerin-Deremaux, L., Saniez, M.H., Lefranc-Millot, C. and Allaert, F.A. 2015. Pea proteins oral supplementation promotes muscle thickness gains during resistance training: a double-blind, randomized, Placebo-controlled clinical trial vs Whey protein. *J. Int. Soc. Sports Nutr.*, 12: 3.

The effects of protein supplementation on muscle thickness and strength seem largely dependent on its composition. The current study aimed at comparing the impact of an oral supplementation with vegetable Pea protein (NUTRALYS®) vs. Whey protein and Placebo on biceps brachii muscle thickness and strength after a 12-week resistance training program.

6. Overduin, J., Guerin-Deremaux, L., Wils, D. and Lambers, T.T. 2015. Nutralys pea protein: characterization of in vitro gastric digestion and in vivo gastrointestinal peptide responses relevant to satiety. *Food & Nutr. Res.*, 59: 25622.

In the current study, pea-protein-induced physiological signals relevant to satiety were characterized in vitro via gastric digestion kinetics and in vivo by monitoring post-meal gastrointestinal hormonal responses in rats.

7. Aluko, R.E., Girgih, A.T., He, R., Malomo, S., Li, H., Offengenden, M., Wu, J. 2015. Structural and functional characterization of yellow field pea seed (*Pisum sativum* L.) protein-derived antihypertensive peptides. *Food Res. Int.*, 77: 10-16.

The aim of this study was to identify and test the in vivo effectiveness of antihypertensive peptides present in a pea protein hydrolysate. Yellow field pea protein isolate was digested with thermolysin and the hydrolysate passed through a 3 kDa ultrafiltration membrane. The permeate was collected as the PPH-3 and separated on a reverse-phase HPLC column into 10 peptide fractions. Five peptides were identified from the 3 kDa permeate of a yellow field pea protein hydrolysate (PPH-3). The in vitro enzyme inhibitory properties of the peptides suggest that hydrophobicity enhanced peptide interaction with renin while hydrophilic properties seem to be responsible for increased potency against ACE. After oral administration to SHR, a faster decrease in SBP was observed for the pentapeptide (LTFPG), which suggests a more rapid absorption than the longer chains of heptapeptide or nonapeptide. However, the heptapeptide had a delayed effect with maximum SBP reduction after 4 h, which indicates conversion to shorter but active peptide fragments or tighter interactions with ACE and renin. The significantly ( $P < 0.05$ ) better SBP reduction by the pure peptides suggests that they may be the main factors responsible for the antihypertensive effects of PPH-3. Therefore, these peptides may be useful ingredients to formulate antihypertensive functional foods and Nutraceuticals.

8. Teunissen-Beekman, K.F.M., Dopheide, J., Geleijnse, J.M., Bakker, S.J.L., Brink, E.J., de Leeuw, P.W., Schalkwijk, C.G. and van Baak, M.A. 2015. Dietary proteins improve endothelial function under fasting conditions but not in the postprandial state, with no effects on markers of low-grade inflammation. *British J. Nutr.*, 114: 1819-1828.

Endothelial dysfunction (ED) and low-grade inflammation (LGI) have a role in the development of CVD. The two studies reported here explored the effects of dietary proteins and carbohydrates on markers of ED and LGI in overweight/obese individuals with untreated elevated blood pressure. In the first study, fifty-two participants consumed a protein mix or maltodextrin (3×20 g/d) for 4 weeks. Fasting levels and 12 h postprandial responses of markers of ED (soluble intercellular adhesion molecule 1 (sICAM), soluble vascular cell adhesion molecule 1 (sVCAM), soluble endothelial selectin and von Willebrand factor) and markers of LGI (serum amyloid A, C-reactive protein and sICAM) were evaluated before and after intervention. Biomarkers were also combined into mean Z-scores of ED and LGI. The second study compared 4 h postprandial responses of ED and LGI markers in forty-eight participants after ingestion of 0.6 g/kg pea protein, milk protein and egg-white protein. In addition, postprandial responses after maltodextrin intake were compared with a protein mix and sucrose. The first study showed significantly lower fasting ED Z-scores and sICAM after 4 weeks on the high-protein diet ( $P \leq 0.02$ ). The postprandial studies found no clear differences of ED and LGI between test meals. However, postprandial sVCAM decreased more after the protein mix compared with maltodextrin in both studies ( $P \leq 0.04$ ). In conclusion, dietary protein is beneficial for fasting ED, but not for fasting LGI, after 4 weeks of supplementation. On the basis of Z-scores, postprandial ED and LGI were not differentially affected by protein sources or carbohydrates.

9. Utrilla, M.P., Peinado, M.J., Ruiz, R., Rodriguez-Nogales, A., Algeri, F., Rodriguez-Cabelas, M.E., Clemente, A., Galvez, J. and Rubio, L.A. 2015. Pea (*Pisum sativum* L.) seed albumin extracts show anti-inflammatory effect in the DSS model of mouse colitis. *Mol. Nutr. Food Res.*, 59: 807-819.

This study investigates the preventive effects of two pea (*Pisum sativum*) seed albumin extracts, either in the presence (pea seed extract [PSE]) or absence (albumin fraction from PSE [AF-PSE]) of soluble polysaccharides, in the dextran sodium sulfate (DSS) induced colitis in mice.

10. Petrasova, M., Pospiech, M., Tremlova, B. and Javurkova, Z. 2016. Immunofluorescence detection of pea protein in meat products. *Food Additives & Contaminants: Part A*, 33(8): 1283-1289.

This study developed an immunofluorescence method to detect pea protein in meat products. Pea protein has a high nutritional value but in sensitive individuals it may be responsible for causing allergic reactions. Model meat products were produced with various additions of pea protein and flour; the detection limit (LOD) of the method for pea flour was 0.5% addition, and for pea protein it was 0.001% addition.

11. Adam, C.L., Gratz, S.W., Peinado, D.I., Thomson, L.M., Garden, K.E., Williams, P.A., Richardson, A.J., Ross, A.W. 2016. Effects of dietary fibre (pectin) and/or increased protein (casein or pea) on satiety, body weight, adiposity and caecal fermentation in high fat diet induced obese rats. *PLoS ONE*, 11(5): e0155871.

Dietary constituents that suppress appetite, such as dietary fibre and protein, may aid weight loss in obesity. The soluble fermentable dietary fibre pectin promotes satiety and decreases adiposity in diet-induced obese rats but effects of increased protein are unknown. Adult diet-induced obese rats reared on high fat diet (45% energy from fat) were given experimental diets ad libitum for 4 weeks (n = 8/group): high fat control, high fat with high protein (40% energy) as casein or pea protein, or these diets with added 10% w/w pectin. Dietary pectin, but not high protein, decreased food intake by 23% and induced 23% body fat loss, leading to 12% lower final body weight and 44% lower total body fat mass than controls.

12. Ziobro, R., Juszczak, L., Witczak, M. and Korus, J. 2016. Non-gluten proteins as structure forming agents in gluten free bread. *J. Food Sci. Technol.* 53(1): 571-580.

The study aimed to evaluate the effects of selected protein isolates and concentrates on quality and staling of gluten-free bread, in the absence of other structure-forming agents such as guar gum and pectin. The applied preparations included albumin, collagen, pea, lupine and soy.

13. Nosworthy, M.G., Tulbek, M.C. and House, J.D. 2017. Does the concentration, isolation, or deflavoring of pea, lentil, and faba bean protein alter protein quality? *Cereal Foods World*, 62(4): 139-142.

Consumers are interested in alternative sources of protein, such as pulses, and this has led to the development of a wide variety of novel products. The incorporation of high-protein fractions into other consumer products underscores the necessity of investigating what impact processing has on protein quality. As more products are generated using protein concentrates, isolates, and deflavored proteins, attention must be given to whether the process of production alters amino acid composition or protein digestibility. Although testing currently requires the use of a rodent bioassay, it may be possible in the future to move away from in vivo analysis of protein quality and toward a more rapid and less expensive method of in vitro protein quality assay.

#### E. Expert Panel

There was no disagreement in the literature on the safety of peas protein that warranted the use of an expert panel to review and write an opinion on. Therefore, this Notice does not include or rely on such an opinion.



## 7. REFERENCES AND LIST OF TABLES, FIGURES AND SUPPORTING DATA

### A. List of References

Agriculture and Agri-Food Canada, *Market Access Secretariat Global Analysis Report: Pea Protein Isolate in Food and Beverage Products*, (August 2016).

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European Food Safety Agency (EFSA), *EFSA evaluates ochratoxin A in food and derives a Tolerable Weekly Intake* (9 June 2006).

Munialo, C.D., Martin, A.H., van der Linden, E. and de Jongh, H.H.J. 2014. *Fibril formation from pea protein and subsequent gel formation*. J. Agric. Food Chem., 62: 2418-2427.

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## 8. APPENDIX I INTERTEK EXPOSURE ESTIMATE

# ESTIMATED DAILY INTAKE OF PROTEIN FROM PEAZAZZ AND PEAZAC BY THE U.S. POPULATION FROM PROPOSED FOOD-USES (2013-2014 NHANES)

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# Estimated Daily Intake of Protein from Peazazz and Peazac by the U.S. Population from Proposed Food-Uses (2013-2014 NHANES)

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# Estimated Daily Intake of Protein from Peazazz and Peazac by the U.S. Population from Proposed Food-Uses (2013-2014 NHANES)

## 1.0 INTRODUCTION

Peazazz and Peazac are proposed for use in the United States (U.S.) as a source of protein in foods, such as baked goods and baking mixes, beverages and beverage bases, breakfast cereals, cheeses, coffee and tea, confections and frostings, dairy product analogs, egg products, fats and oils, fish products, frozen dairy desserts, fruit and water ices, gelatins, puddings, and fillings, grain products and pastas, gravies and sauces, meat products, milk products, nut and nut products, plant protein products, poultry products, processed fruits and fruit juices, processed vegetables and vegetable juices, snack foods, soft candy, and soups and soup mixes.

Estimates for the intake of protein from Peazazz and Peazac were based on the proposed food-uses and use levels for Peazazz and Peazac in conjunction with food consumption data included in the U.S. National Center for Health Statistics (NCHS)'s National Health and Nutrition Examination Surveys (NHANES) 2013-2014. Calculations for the mean and 90<sup>th</sup> percentile *per capita* and consumer-only intakes were performed for all proposed food-uses of Peazazz and Peazac and the percentage of consumers were determined. Similar calculations were used to estimate the intake of protein from Peazazz and Peazac resulting from each individual proposed food-use, including the calculations of percent consumers. In both cases, the per person and per kilogram body weight intakes were reported for the following population groups:

- Infants and young children, up to 2 years;
- Children, ages 3 to 11;
- Female teenagers, ages 12 to 19;
- Male teenagers, ages 12 to 19;
- Female adults, ages 20 and up;
- Male adults, ages 20 and up; and
- Total population (all age and gender groups combined).

## 2.0 FOOD CONSUMPTION SURVEY DATA

### 2.1 Survey Description

NHANES for the years 2013-2014 are available for public use (CDC, 2015). NHANES are conducted as continuous, annual surveys, and are released in 2-year cycles. During each year of the ongoing NHANES program, individuals from the U.S. are sampled from up to 30 different study locations in a complex multi-stage probability design intended to ensure the data are a nationally representative sample of the U.S. population.

NHANES 2013-2014 dietary survey data were collected from individuals and households *via* 24-hour dietary recalls administered on 2 non-consecutive days (Day 1 and Day 2) throughout all 4 seasons of the year. Day 1 data were collected in-person, and Day 2 data were collected by telephone in the following 3 to



10 days, on different days of the week, to achieve the desired degree of statistical independence. The data were collected by first selecting Primary Sampling Units (PSUs), which were counties throughout the U.S., of which 30 PSUs are visited per year. Smaller contiguous counties were combined to attain a minimum population size. These PSUs were segmented, and households were chosen within each segment. One or more participants within a household were interviewed. For NHANES 2013-2014, 14,332 individuals were selected for the sample, 10,175 were interviewed (71.0%), and 9,813 were examined (68.5%).

In addition to collecting information on the types and quantities of foods being consumed, NHANES 2013-2014 collected socio-economic, physiological, and demographic information from individual participants in the survey, such as sex, age, body weight, and other variables (including height and race-ethnicity) that may be useful in characterizing consumption. The inclusion of this information allows for further assessment of food intake based on consumption by specific population groups of interest within the total population. The primary sample design for NHANES 2013-2014 includes an oversample of non-Hispanic Asian persons, Hispanic persons, non-Hispanic black persons, older adults, and “low income whites/others”; however, sample weights were incorporated to allow estimates from these subgroups to be combined to obtain national estimates that reflect the relative proportions of these groups in the population as a whole (CDC, 2015).

## 2.2 Statistical Methods

For the intake assessment, consumption data from individual dietary records, detailing food items ingested by each survey participant, were collated by computer and used to generate estimates for the intake of protein from Peazazz and Peazac by the U.S. population<sup>1</sup>. Estimates for the daily intake of protein from Peazazz and Peazac represent projected 2-day averages for each individual from Day 1 and Day 2 of NHANES 2013-2014; these average amounts comprised the distribution from which mean and percentile intake estimates were determined. Mean and percentile estimates were generated incorporating survey weights in order to provide representative intakes for the entire U.S. population. “*Per capita*” intake refers to the estimated intake of protein from Peazazz and Peazac averaged over all individuals surveyed, regardless of whether they consumed food products in which Peazazz and Peazac is proposed for use, and therefore includes individuals with “zero” intakes (*i.e.*, those who reported no intake of food products containing Peazazz and Peazac during the 2 survey days). “Consumer-only” intake refers to the estimated intake of protein from Peazazz and Peazac by those individuals who reported consuming food products in which the use of Peazazz and Peazac is currently under consideration. Individuals were considered “consumers” if they reported consumption of 1 or more food products in which Peazazz and Peazac is proposed for use on either Day 1 or Day 2 of the survey.

Mean and 90<sup>th</sup> percentile intake estimates based on sample sizes of less than 30 and 80, respectively, may not be considered statistically reliable due to the limited sampling size (CDC, 2013). As such, the reliability of estimates for the intake of protein from Peazazz and Peazac based on consumption estimates derived from individual population groups of a limited sample size should be interpreted with caution. These values are marked with an asterisk in the relevant data tables.

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<sup>1</sup> Statistical analysis and data management were conducted in DaDiet Software (Dazult Ltd., 2018). DaDiet Software is a web-based software tool that allows accurate estimate of exposure to nutrients and to substances added to foods, including contaminants, food additives and novel ingredients. The main input components are concentration (use level) data and food consumption data. Data sets are combined in the software to provide accurate and efficient exposure assessments.



### 3.0 FOOD USAGE DATA

The individual proposed food-uses and use-levels for Peazazz and Peazac (as protein) employed in the current intake analysis are summarized in Table 3-1. Food codes representative of each proposed food-use were chosen from the NHANES 2013-2014 (CDC, 2016). Food codes were grouped in food-use categories according to Title 21, Section §170.3 of the Code of Federal Regulations (CFR, 2017). If necessary, product-specific adjustment factors were developed for composite foods/mixtures based on data provided in the food and nutrient database for dietary studies (FNDDS) (USDA ARS, 2016) or the Food Commodity Intake Database (FCID) (U.S. EPA, 2018). All food codes included in the current intake assessment are listed in Appendix C.

**Table 3-1 Summary of the Individual Proposed Food-Uses and Use-Levels for Peazazz and Peazac, as Protein, in the U.S.**

Food Category (21 CFR 170.3) (CFR, 2017)	Food-Uses	Peazazz and Peazac Use-Levels (g protein/100 g food as consumed)
Baked Goods and Baking Mixes	Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers	4
	Biscuits; Cookies; French Toast, Pancakes, and Waffles	3
	Bread*, high protein	15
	Bread*, gluten free	4
	Other Breads* (excluding sweet-type breads)	2
	Doughnuts (Donuts); Muffins	2
Beverages and Beverage Bases (including powder and all other forms)	Energy Drinks	2
	Sport or Electrolyte Drinks, Fluid Replacement Drinks	4
	Enhanced or Fortified Waters	2
	Non-Milk-Based Meal Replacement Beverages	20
	Protein Drinks	20
Breakfast Cereals	Hot Breakfast Cereals (e.g., oatmeal, grits)	4
	Ready-to-Eat Breakfast Cereals	10
Cheeses*	Processed Cheese or Cheese Mixtures*; Cream Cheese and Cheese-Based Spreads*	10
Coffee and Tea (including powder and all other forms)	Specialty Coffee Drinks (Lattes, Cappuccinos, Mochas)	8
	Ready-to-Drink Tea Beverages; Instant Tea	8
Confections and Frostings	Frostings, Icings, and Coatings	2
Dairy Product Analogs	Non-Dairy Milk and Cream (including coffee whiteners, non-dairy creamers); Soy- and/or Rice-Based Beverages	8
	Cream Cheese Substitute <sup>a</sup>	10
	Non-Dairy Frozen Desserts <sup>b</sup>	8
	Non-Dairy Dips	8
	Non-Dairy Whipped Toppings	10
	Non-Dairy Yogurt	20
	Imitation Cheese	35



**Table 3-1 Summary of the Individual Proposed Food-Uses and Use-Levels for Peazazz and Peazac, as Protein, in the U.S.**

<b>Food Category (21 CFR 170.3) (CFR, 2017)</b>	<b>Food-Uses</b>	<b>Peazazz and Peazac Use-Levels (g protein/100 g food as consumed)</b>
Egg Products	Egg-Based Dishes	5
	Egg Substitutes	20
Fats and Oils	Fat-Based Sauces	4
	Margarine*, and Margarine-like Spreads	1
	Mayonnaise* and Mayonnaise-Type Dressings	4
	Salad Dressings*	3
Fish Products	Fish-Based Entrees	5
Frozen Dairy Desserts	Ice Cream*; Frozen Yogurt (Frozen Yoghurt); Other Frozen Milk Desserts*	8
Fruit and Water Ices	Edible Ices*, Sherbet*, and Sorbet*	1
Gelatins, Puddings, and Fillings	Flans, Custards, and Other Egg-Based Desserts	5
	Puddings and Other Milk-Based Desserts	4
Grain Products and Pastas	Cereal and Granola Bars	15
	Energy Bars or Protein Bars; Meal Replacement Bars	35
	Macaroni and Noodle Products*, excluding gluten free	2
	Macaroni and Noodle Products*, gluten free	4
Gravies and Sauces	Tomato-Based Sauces	1
	White Sauces	4
Meat Products	Meat-Based Entrees	5
	Processed Meat Products	3
Milk Products	Evaporated, Condensed, and/or Dry Milks*; Fermented Milks, Plain	8
	Flavored Milk*, Milk Drinks, and Mixes	2
	Milk Shakes	10
	Milk-Based Meal Replacements	10
	Plain or Flavored Yogurt (Yoghurt)*	2
Nut and Nut Products	Nut Spreads*	4
Plant Protein Products	Meat Analogs	35
Poultry Products	Poultry-Containing Entrees	5
Processed Fruits and Fruit Juices* (including powder and other forms of beverages)	Fruit Juices*; Fruit Nectars; Fruit Drinks and Ades; Fruit-Based Desserts	2
	Fruit Smoothies	6
Processed Vegetables and Vegetable Juices* (including powder and other forms of beverages)	Vegetable Juices*; Vegetable Purees <sup>c</sup>	2
	Vegetable Smoothies	6
Snack Foods	Potato Chips; Pretzels; Corn-Based Savory Snacks	2
	Popcorn	1



**Table 3-1 Summary of the Individual Proposed Food-Uses and Use-Levels for Peazazz and Peazac, as Protein, in the U.S.**

<b>Food Category (21 CFR 170.3) (CFR, 2017)</b>	<b>Food-Uses</b>	<b>Peazazz and Peazac Use-Levels (g protein/100 g food as consumed)</b>
Soft Candy	Chocolate*, Nougat and Toffees, Gummies, and Soft Candy	2
Soups and Soup Mixes	Soup (including prepared, canned, and dry mix)	2

CFR = Code of Federal Regulations; U.S. = United States.

\* Peazazz and Peazac is intended for use in unstandardized products when standards of identity do not permit its addition.

<sup>a</sup> No food codes were identified for this food use; however, all food codes which were available for ‘Cream Cheese and Cheese-Based Spreads’ were selected, as such, this use has been considered in the current assessment.

<sup>b</sup> No food codes were identified for this food use; however, all food codes which were available for ‘Frozen Dairy Desserts’ were selected, as such, this use has been considered in the current assessment.

<sup>c</sup> Food codes for vegetable mixtures and vegetable combinations (which are likely to be used to make purees) were included as a surrogate for ‘Vegetable Purees’.

## 4.0 FOOD SURVEY RESULTS

Estimates for the total daily intakes of protein from Peazazz and Peazac from proposed food-uses are provided in Tables 4.1-1 and 4.1-2. Estimates for the daily intake of protein from Peazazz and Peazac from individual proposed food-uses in the U.S. are summarized in Tables A-1 to A-7 and B-1 to B-7 of Appendices A and B, respectively. Tables A-1 to A-7 provide estimates for the daily intake of protein from Peazazz and Peazac on an absolute basis (g/person/day), whereas Tables B-1 to B-7 provide estimates for the daily intake of protein from Peazazz and Peazac on a per kilogram body weight basis (g/kg body weight/day).

### 4.1 Estimated Daily Intake of Protein from Peazazz and Peazac from All Proposed Food-Uses in the U.S.

Table 4.1-1 summarizes the estimated total intake of protein from Peazazz and Peazac (g/person/day) from all proposed food-uses in the U.S. population group. Table 4.1-2 presents this data on a per kilogram body weight basis (g/kg body weight/day). The percentage of consumers was high among all age groups evaluated in the current intake assessment; greater than 76.9% of the population groups consisted of consumers of food products in which Peazazz and Peazac is currently proposed for use (Table 4.1-1). Children, female teenagers, and adults all had 100% consumers. The consumer-only estimates are more relevant to risk assessments as they represent exposures in the target population. Consequently, only the consumer-only intake results are discussed in detail herein.

Among the total population (all ages), the mean and 90<sup>th</sup> percentile consumer-only intakes of protein from Peazazz and Peazac were determined to be 28.42 and 51.62 g/person/day, respectively. Of the individual population groups, male teenagers were determined to have the greatest mean and 90<sup>th</sup> percentile consumer-only intakes of protein from Peazazz and Peazac on an absolute basis, at 33.54 and 59.76 g/person/day. Infants and young children had the lowest mean and 90<sup>th</sup> percentile consumer-only intakes of 15.49 and 24.70 g/person/day, respectively (Table 4.1-1).



**Table 4.1-1 Summary of the Estimated Daily Intake of Protein from Peazazz and Peazac from Proposed Food-Uses in the U.S. by Population Group (2013-2014 NHANES Data)**

Population Group	Age Group (Years)	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Infants and Young Children	0 to 2	11.91	23.63	76.9	468	15.49	24.70
Children	3 to 11	22.34	38.85	100.0	1,284	22.34	38.85
Female Teenagers	12 to 19	25.46	47.41	100.0	577	25.47	47.41
Male Teenagers	12 to 19	33.43	58.85	99.7	558	33.54	59.76
Female Adults	20 and up	26.95	50.34	100.0	2,386	26.96	50.34
Male Adults	20 and up	32.78	58.26	100.0	2,090	32.79	58.26
Total Population	All ages	28.14	51.40	99.0	7,363	28.42	51.62

n = sample size; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

On a body weight basis, the total population (all ages) mean and 90<sup>th</sup> percentile consumer-only intakes of protein from Peazazz and Peazac were determined to be 0.47 and 0.97 g/kg body weight/day, respectively. Among the individual population groups, infants and young children were identified as having the highest mean and 90<sup>th</sup> percentile consumer-only intakes of any population group, of 1.27 and 2.12 g/kg body weight/day, respectively. Adults had the lowest mean and 90<sup>th</sup> percentile consumer-only intakes of 0.38 and 0.71 to 0.72 g/kg body weight/day, respectively (Table 4.1-2).

**Table 4.1-2 Summary of the Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Proposed Food-Uses in the U.S. by Population Group (2013-2014 NHANES Data)**

Population Group	Age Group (Years)	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Infants and Young Children	0 to 2	0.98	2.02	76.8	466	1.27	2.12
Children	3 to 11	0.84	1.44	100.0	1,275	0.84	1.44
Female Teenagers	12 to 19	0.41	0.79	100.0	568	0.41	0.79
Male Teenagers	12 to 19	0.48	0.94	99.7	556	0.49	0.94
Female Adults	20 and up	0.38	0.72	100.0	2,372	0.38	0.72
Male Adults	20 and up	0.38	0.71	100.0	2,080	0.38	0.71
Total Population	All ages	0.46	0.96	99.0	7,317	0.47	0.97

bw = body weight; n = sample size; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

## 4.2 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses in the U.S.

Estimates for the mean and 90<sup>th</sup> percentile daily intakes of protein Peazazz and Peazac from each individual food category are summarized in Tables A-1 to A-7 and B-1 to B-7 on a g/day and g/kg body weight/day basis, respectively. The total U.S. population was identified as being significant consumers of fruit juice, nectar, fruit drinks, and fruit-based desserts (37.4 to 80% consumers), bagels, English muffins, cornbread, corn muffins, tortillas, and crackers (43.9 to 62% consumers), breads other than sweet-type, high protein,



and gluten free varieties (39.6 to 62% consumers), biscuits, cookies, French toast, pancakes, and waffles (41.4 to 61.9% consumers), and processed meat products (39 to 61.7% consumers).

In terms of contribution to total mean intake of protein from Peazazz and Peazac, instant and ready-to-drink teas (contributed 2.0 to 19.5% to total mean intakes) and fruit juice, nectar, fruit drinks, and fruit-based desserts (contributed 6.6 to 18.3% to total mean intakes) were the 2 main sources of intake across all population groups. Margarine and margarine-like spreads, fat-based sauces, confections and frostings, white sauce, tomato-based sauce, imitation cheese, high-protein bread, gluten free macaroni and noodle products, flans, custards, and other egg-based desserts, and puddings and other milk-based desserts all individually contributed <0.1% to total mean protein intakes from these ingredients across all population groups (see Tables A-1 to A-7 for further details).

## 5.0 SUMMARY AND CONCLUSIONS

Consumption data and information pertaining to the individual proposed food-uses of Peazazz and Peazac were used to estimate the *per capita* and consumer-only intakes of protein from Peazazz and Peazac for specific demographic groups and for the total U.S. population. There were a number of assumptions included in the assessment which render exposure estimates conservative. For example, it has been assumed that all food products within a food category contain Peazazz and Peazac at the maximum specified level of use. In reality, the levels added to specific foods will vary depending on the nature of the food product and it is unlikely that Peazazz and Peazac will have 100% market penetration in all identified food categories.

In summary, on consumer-only basis, the resulting mean and 90<sup>th</sup> percentile intakes of protein from Peazazz and Peazac by the total U.S. population from all proposed food-uses, were estimated to be 28.42 g/person/day (0.47 g/kg body weight/day) and 51.62 g/person/day (0.97 g/kg body weight/day), respectively. Among the individual population groups, the highest mean and 90<sup>th</sup> percentile consumer-only intakes of protein were determined to be 33.54 g/person/day (0.49 g/kg body weight/day) and 59.76 mg/person/day (0.94 g/kg body weight/day) among male teenagers. Infants and young children had the lowest mean and 90<sup>th</sup> percentile consumer-only intakes of 15.49 g/person/day and 24.70 g/person/day, respectively, on an absolute basis; however, when intakes were expressed on a body weight basis, infants and young children had the highest mean and 90<sup>th</sup> percentile consumer-only intake of 1.27 and 2.12 g/kg body weight/day, respectively.

Although younger populations were identified as the groups having higher exposures to protein from Peazazz and Peazac on a body weight basis, it should be noted that products containing Peazazz and Peazac will not be targeted towards this age group, and estimates described herein assume *all* products, including those consumed by younger individuals, would contain the ingredient at the maximum intended use levels. In actuality, these products would, in the worst case, only be consumed incidentally and intakes described in the older populations (*i.e.*, not more than 0.84 and 1.44 g/kg body weight/day at the mean and 90<sup>th</sup> percentile, respectively) are expected to be more accurate estimates of dietary exposure among the intended population.



## DISCLAIMER

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**Appendix A**  
**Estimated Daily Intake of Protein from Peazazz and Peazac from**  
**Individual Proposed Food-Uses by Different Population Groups within**  
**the U.S. (2013-2014 NHANES DATA)**



**Table A-1 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Infants and Young Children Aged Up to 2 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
<b>All</b>	<b>100</b>	<b>11.91</b>	<b>23.63</b>	<b>76.9</b>	<b>468</b>	<b>15.49</b>	<b>24.70</b>
Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers	4.1	0.48	1.58	49.8	268	0.97	2.11
Biscuits; Cookies; French Toast, Pancakes, and Waffles	2.6	0.31	0.95	42.0	244	0.74	1.71
Bread, high protein	0.0	0	0	0	0	0	0
Bread, gluten free	0.1	0.01*	na	0.4	1	1.60*	1.60*
Other breads (excluding sweet-type breads)	1.6	0.19	0.71	39.6	209	0.49	0.98
Doughnuts (Donuts); Muffins	0.3	0.04	na	4.8	30	0.78	2.23*
Energy Drinks	0.0	0	0	0	0	0	0
Sport or Electrolyte Drinks, Fluid Replacement Drinks	4.2	0.50*	na	5.0	26	9.98*	24.62*
Enhanced or Fortified Waters	0.3	0.03*	na	0.8	3	4.01*	5.72*
Non-Milk-Based Meal Replacement Beverages	0.0	0	0	0	0	0	0
Protein Drinks	1.6	0.19*	na	0.5	2	35.81*	39.00*
Hot Breakfast Cereals (e.g., oatmeal, grits)	4.7	0.56	2.34*	13.7	79	4.12	7.02*
Ready-to-Eat Breakfast Cereals	5.4	0.64	2.00	42.7	226	1.51	3.06
Processed Cheese or Cheese Mixtures; Cream Cheese and Cheese-Based Spreads	0.2	0.02*	na	3.6	19	0.63*	1.29*
Specialty Coffee Drinks (Lattes, Cappuccinos, Mochas)	0.1	0.01*	na	0.3	2	4.74*	6.45*
Ready-to-Drink Tea Beverages; Instant Tea	2.0	0.24*	na	2.5	14	9.37*	9.44*
Frostings, Icings, and Coatings	0.0	<0.01*	na	0.7	5	0.15*	0.27*
Non-Dairy Milk and Cream (including coffee whiteners, non-dairy creamers); Soy- and/or Rice-Based Beverages	10.0	1.19*	na	5.5	27	21.72	58.74*
Non-Dairy Dips	0.7	0.09*	na	2.0	8	4.32*	7.75*
Non-Dairy Whipped Toppings	0.0	0	0	0	0	0	0
Non-Dairy Yogurt	0.5	0.06*	na	0.5	2	11.91*	11.30*
Imitation Cheese	0.0	0	0	0	0	0	0
Egg-Based Dishes	3.8	0.46	1.93	22.5	125	2.04	3.60
Egg Substitutes	0.1	0.01*	na	0.2	1	4.59*	4.59*
Fat-Based Sauces	0.0	<0.01*	na	0.1	2	0.08*	0.09*
Margarine, and Margarine-like Spreads	0.0	<0.01	na	6.1	33	0.02	0.04*



**Table A-1 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Infants and Young Children Aged Up to 2 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Mayonnaise and Mayonnaise-Type Dressings	0.1	0.02	na	9.4	49	0.18	0.59*
Salad Dressings	0.0	<0.01*	na	2.0	14	0.10*	0.08*
Fish-Based Entrees	0.2	0.02*	na	1.0	9	1.92*	1.93*
Ice Cream; Frozen Yogurt (Frozen Yoghurt); Other Frozen Milk Desserts	2.6	0.31	0.35*	11.6	75	2.70	5.68*
Edible Ices, Sherbet, and Sorbet	0.1	0.01	na	5.1	31	0.25	0.40*
Flans, Custards, and Other Egg-Based Desserts	0.0	0	0	0	0	0	0
Puddings and Other Milk-Based Desserts	0.0	0	0	0	0	0	0
Cereal and Granola Bars	1.8	0.22*	na	5.0	22	4.36*	8.49*
Energy Bars or Protein Bars; Meal Replacement Bars	0.5	0.06*	na	0.8	6	7.79*	9.55*
Macaroni and Noodle Products, excluding gluten free	4.2	0.50	1.96	25.6	147	1.94	4.17
Macaroni and Noodle Products, gluten free	0.0	0	0	0	0	0	0
Tomato-Based Sauces	0.0	0	0	0	0	0	0
White Sauces	0.0	<0.01*	na	0.4	5	0.36*	0.98*
Meat-Based Entrees	4.8	0.57	2.10	20.6	111	2.78	5.95
Processed meat products	3.4	0.41	1.49	39.0	199	1.04	2.31
Evaporated, Condensed, and/or Dry Milks	0.2	0.02*	na	0.1	2	29.12	40.79*
Fermented Milks, Plain	0.0	<0.01*	na	0.1	1	1.83*	1.83*
Flavored Milk, Milk Drinks, and Mixes	2.2	0.26	na	8.2	42	3.15	5.23*
Milk Shakes	0.0	0.01*	na	0.1	1	4.90*	4.90*
Milk-Based Meal Replacements	4.9	0.58*	na	3.0	7	19.37*	35.60*
Plain or Flavored Yogurt (Yoghurt)	2.8	0.34	1.23	21.0	113	1.61	3.22
Nut Spreads	0.7	0.08	0.32*	18.7	74	0.44	1.04*
Meat Analogs	1.0	0.12*	na	0.6	4	20.15*	21.92*
Poultry-Containing Entrees	2.2	0.27	na	7.6	36	3.49	5.76*
Fruit Juices; Fruit Nectars; Fruit Drinks and Ades; Fruit-Based Desserts	18.3	2.18	6.35	51.7	303	4.22	8.84
Fruit Smoothies	1.2	0.14*	na	2.9	16	4.74*	6.48*
Vegetable Juices; Vegetable Purees	0.9	0.11	na	6.2	36	1.69	3.07*
Vegetable Smoothies	0.4	0.04*	na	1.5	9	3.02*	4.39*



**Table A-1 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Infants and Young Children Aged Up to 2 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Potato Chips; Pretzels; Corn-Based Savory Snacks	0.6	0.07	0.27	28.9	163	0.24	0.46
Popcorn	0.0	0.01	na	7.8	47	0.07	0.14*
Chocolate, Nougat and Toffees, Gummies, and Soft Candy	0.6	0.07	0.21	19.3	108	0.34	0.79
Soup (including prepared, canned, and dry mix)	3.9	0.47	1.82	18.6	110	2.53	4.52

n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

\* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90<sup>th</sup> percentile n<80).



**Table A-2 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Children Aged 3 to 11 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
<b>All</b>	<b>100</b>	<b>22.34</b>	<b>38.85</b>	<b>100</b>	<b>1,284</b>	<b>22.34</b>	<b>38.85</b>
Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers	4.6	1.04	3.35	62	773	1.67	3.97
Biscuits; Cookies; French Toast, Pancakes, and Waffles	3.5	0.78	1.95	61.9	753	1.26	2.55
Bread, high protein	0.0	0	0	0	0	0	0
Bread, gluten free	0.0	<0.01*	na	0.1	1	1.12*	1.12*
Other breads (excluding sweet-type breads)	2.3	0.52	1.28	62	768	0.83	1.52
Doughnuts (Donuts); Muffins	0.6	0.13	0.54	14.9	190	0.90	1.43
Energy Drinks	0.0	<0.01*	na	0.1	1	3.72*	3.72*
Sport or Electrolyte Drinks, Fluid Replacement Drinks	6.1	1.36	3.72	12.2	127	11.13	21.70
Enhanced or Fortified Waters	0.3	0.07*	na	2.1	25	3.25*	5.40*
Non-Milk-Based Meal Replacement Beverages	0.0	0	0	0	0	0	0
Protein Drinks	0.1	0.02*	na	0.1	2	12.21*	14.22*
Hot Breakfast Cereals (e.g., oatmeal, grits)	1.8	0.40	na	8.2	116	4.80	9.90
Ready-to-Eat Breakfast Cereals	6.9	1.55	4.17	59	777	2.63	5.25
Processed Cheese or Cheese Mixtures; Cream Cheese and Cheese-Based Spreads	0.8	0.18	0.48	11.7	120	1.53	2.95
Specialty Coffee Drinks (Lattes, Cappuccinos, Mochas)	0.2	0.05*	na	0.6	12	8.12*	13.43*
Ready-to-Drink Tea Beverages; Instant Tea	3.8	0.85	na	6.2	93	13.75	29.76
Frostings, Icings, and Coatings	0.0	<0.01*	na	0.9	10	0.17*	0.20*
Non-Dairy Milk and Cream (including coffee whiteners, non-dairy creamers); Soy- and/or Rice-Based Beverages	1.3	0.30	na	4.1	49	7.22	19.52*
Non-Dairy Dips	0.1	0.03*	na	0.7	11	3.59*	4.92*
Non-Dairy Whipped Toppings	0.0	<0.01*	na	0.2	3	1.50*	1.77*
Non-Dairy Yogurt	0.0	0	0	0	0	0	0
Imitation Cheese	0.0	0.01*	na	0.2	1	3.68*	3.68*
Egg-Based Dishes	2.3	0.50	2.48	19.6	235	2.57	4.25
Egg Substitutes	0.0	<0.01*	na	0.1	2	8.20*	8.77*
Fat-Based Sauces	0.0	<0.01*	na	0.3	8	1.28*	2.24*
Margarine, and Margarine-like Spreads	0.0	0.01	0.01	11.1	98	0.05	0.10



**Table A-2 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Children Aged 3 to 11 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Mayonnaise and Mayonnaise-Type Dressings	0.4	0.10	0.29	28.3	353	0.35	0.78
Salad Dressings	0.2	0.04	na	7.8	88	0.47	0.94
Fish-Based Entrees	0.6	0.15	na	5	46	2.89	5.76*
Ice Cream; Frozen Yogurt (Frozen Yoghurt); Other Frozen Milk Desserts	8.8	1.98	6.06	34.4	383	5.74	11.36
Edible Ices, Sherbet, and Sorbet	0.3	0.06	0.28	15.4	150	0.37	0.64
Flans, Custards, and Other Egg-Based Desserts	0.0	0	0	0	0	0	0
Puddings and Other Milk-Based Desserts	0.0	0	0	0	0	0	0
Cereal and Granola Bars	1.4	0.31	1.39	10.8	115	2.83	4.58
Energy Bars or Protein Bars; Meal Replacement Bars	0.6	0.14*	na	1.2	17	11.08*	14.00*
Macaroni and Noodle Products, excluding gluten free	4.1	0.93	3.34	33.4	443	2.77	5.10
Macaroni and Noodle Products, gluten free	0.0	0	0	0	0	0	0
Tomato-Based Sauces	0.0	0	0	0	0	0	0
White Sauces	0.0	0.01*	na	0.9	11	0.71*	1.23*
Meat-Based Entrees	6.4	1.43	5.47	27.7	349	5.15	8.88
Processed meat products	4.2	0.93	2.58	61.7	761	1.51	3.06
Evaporated, Condensed, and/or Dry Milks	0.4	0.09*	na	0.5	7	16.57*	34.71*
Fermented Milks, Plain	0.0	0	0	0	0	0	0
Flavored Milk, Milk Drinks, and Mixes	5.3	1.19	3.72	31.7	432	3.74	7.44
Milk Shakes	0.6	0.14*	na	0.8	8	16.86*	25.56*
Milk-Based Meal Replacements	0.7	0.15*	na	1.4	10	11.19*	14.80*
Plain or Flavored Yogurt (Yoghurt)	1.8	0.41	1.70	23.3	260	1.76	3.40
Nut Spreads	0.5	0.12	0.43	19.6	250	0.62	1.44
Meat Analogs	0.6	0.13*	na	1	14	12.60*	36.76*
Poultry-Containing Entrees	1.2	0.28	na	6	68	4.62	7.80*
Fruit Juices; Fruit Nectars; Fruit Drinks and Ades; Fruit-Based Desserts	18.2	4.07	8.99	80	1,033	5.08	10.23
Fruit Smoothies	3.3	0.73	na	7.3	92	10.07	20.48
Vegetable Juices; Vegetable Purees	0.2	0.05	na	3.8	81	1.29	2.56
Vegetable Smoothies	0.0	0.01*	na	0.1	8	6.32*	8.50*
Potato Chips; Pretzels; Corn-Based Savory Snacks	1.2	0.28	0.74	59	738	0.47	0.93
Popcorn	0.1	0.02	0.06	15.1	202	0.13	0.37



**Table A-2 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Children Aged 3 to 11 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Chocolate, Nougat and Toffees, Gummies, and Soft Candy	0.9	0.21	0.55	42.4	504	0.49	1.10
Soup (including prepared, canned, and dry mix)	2.9	0.65	2.48	17.4	266	3.72	7.28

n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

\* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90<sup>th</sup> percentile n<80).





**Table A-3 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Female Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
<b>All</b>	<b>100</b>	<b>25.46</b>	<b>47.41</b>	<b>100</b>	<b>577</b>	<b>25.47</b>	<b>47.41</b>
Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers	3.4	0.88	2.64	46.9	274	1.87	4.07
Biscuits; Cookies; French Toast, Pancakes, and Waffles	2.2	0.56	2.01	47.3	276	1.19	2.52
Bread, high protein	0.0	0	0	0	0	0	0
Bread, gluten free	0.0	0	0	0	0	0	0
Other breads (excluding sweet-type breads)	1.4	0.35	1.08	43.0	274	0.82	1.46
Doughnuts (Donuts); Muffins	0.3	0.08	na	8.6	61	0.99	1.51*
Energy Drinks	0.5	0.12*	na	1.9	7	6.21*	9.59*
Sport or Electrolyte Drinks, Fluid Replacement Drinks	4.7	1.20	na	9.2	55	13.05	23.56*
Enhanced or Fortified Waters	2.2	0.55*	na	4.0	19	13.95*	26.60*
Non-Milk-Based Meal Replacement Beverages	0.1	0.03*	na	0.4	3	7.46*	15.84*
Protein Drinks	1.6	0.40*	na	1.4	6	29.33*	53.04*
Hot Breakfast Cereals (e.g., oatmeal, grits)	1.0	0.26	na	4.9	38	5.31	10.15*
Ready-to-Eat Breakfast Cereals	5.4	1.39	4.60	43.0	230	3.22	6.13
Processed Cheese or Cheese Mixtures; Cream Cheese and Cheese-Based Spreads	0.3	0.09	na	8.2	44	1.05	2.10*
Specialty Coffee Drinks (Lattes, Cappuccinos, Mochas)	3.5	0.88	na	5.8	40	15.20	21.70*
Ready-to-Drink Tea Beverages; Instant Tea	19.5	4.96	20.70	19.0	88	26.12	52.06
Frostings, Icings, and Coatings	0.0	<0.01*	na	0.6	1	0.07*	0.07*
Non-Dairy Milk and Cream (including coffee whiteners, non-dairy creamers); Soy- and/or Rice-Based Beverages	1.1	0.29	na	5.5	43	5.16	12.89*
Non-Dairy Dips	0.1	0.03*	na	2.0	8	1.59*	3.56*
Non-Dairy Whipped Toppings	0.0	0	0	0	0	0	0
Non-Dairy Yogurt	0.0	0	0	0	0	0	0
Imitation Cheese	0.0	0	0	0	0	0	0
Egg-Based Dishes	1.7	0.43	1.95	13.4	82	3.23	5.05
Egg Substitutes	0.4	0.09*	na	0.8	4	11.70*	13.96*
Fat-Based Sauces	0.0	<0.01*	na	0.6	5	0.40*	0.63*
Margarine, and Margarine-like Spreads	0.0	<0.01	na	7.2	33	0.05	0.06*



**Table A-3 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Female Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Mayonnaise and Mayonnaise-Type Dressings	1.0	0.24	0.46	28.2	159	0.86	2.74
Salad Dressings	0.4	0.09	0.24*	15.3	62	0.61	1.32*
Fish-Based Entrees	0.2	0.06*	na	1.8	14	3.32*	7.48*
Ice Cream; Frozen Yogurt (Frozen Yoghurt); Other Frozen Milk Desserts	5.7	1.44	5.39	23.9	122	6.04	9.60
Edible Ices, Sherbet, and Sorbet	0.1	0.02*	na	3.0	16	0.78*	1.38*
Flans, Custards, and Other Egg-Based Desserts	0.0	0	0	0	0	0	0
Puddings and Other Milk-Based Desserts	0.0	0	0	0	0	0	0
Cereal and Granola Bars	2.2	0.56	2.63*	15.0	63	3.75	6.30*
Energy Bars or Protein Bars; Meal Replacement Bars	1.0	0.26*	na	2.8	8	9.27*	12.17*
Macaroni and Noodle Products, excluding gluten free	3.4	0.87	3.26	28.6	152	3.05	5.75
Macaroni and Noodle Products, gluten free	0.0	0	0	0	0	0	0
Tomato-Based Sauces	0.0	<0.01*	na	0.3	2	0.22*	0.16*
White Sauces	0.0	<0.01*	na	0.1	2	1.16*	1.78*
Meat-Based Entrees	5.6	1.41	6.27	25.4	146	5.56	9.86
Processed meat products	4.0	1.01	2.76	51.5	285	1.97	4.26
Evaporated, Condensed, and/or Dry Milks	0.0	<0.01*	na	0.7	4	0.67*	1.40*
Fermented Milks, Plain	0.0	0	0	0	0	0	0
Flavored Milk, Milk Drinks, and Mixes	2.1	0.53	2.48*	14.0	68	3.78	5.58*
Milk Shakes	0.9	0.22*	na	1.2	6	18.76*	20.30*
Milk-Based Meal Replacements	0.3	0.08*	na	0.5	6	15.89*	19.13*
Plain or Flavored Yogurt (Yoghurt)	1.0	0.26	0.92*	12.8	53	2.05	3.81*
Nut Spreads	0.3	0.08	0.11*	10.9	53	0.76	1.28*
Meat Analogs	1.6	0.42*	na	3.2	12	13.00*	12.25*
Poultry-Containing Entrees	0.9	0.22	na	4.3	30	5.10	8.12*
Fruit Juices; Fruit Nectars; Fruit Drinks and Ades; Fruit-Based Desserts	9.4	2.38	6.36	49.4	330	4.83	9.30
Fruit Smoothies	4.6	1.17	na	8.1	43	14.52	30.45*
Vegetable Juices; Vegetable Purees	0.2	0.04*	na	3.3	20	1.19*	1.66*
Vegetable Smoothies	0.0	<0.01*	na	0	1	4.32*	4.32*
Potato Chips; Pretzels; Corn-Based Savory Snacks	1.0	0.24	0.70	49.5	315	0.49	0.94
Popcorn	0.1	0.02	0.01*	10.5	67	0.14	0.38*



**Table A-3 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Female Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Chocolate, Nougat and Toffees, Gummies, and Soft Candy	0.6	0.15	0.57	32.1	185	0.48	1.15
Soup (including prepared, canned, and dry mix)	4.2	1.07	4.78	20.7	133	5.17	7.58

n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

\* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90<sup>th</sup> percentile n<80).



**Table A-4 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Male Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
<b>All</b>	<b>100</b>	<b>33.43</b>	<b>58.85</b>	<b>99.7</b>	<b>558</b>	<b>33.54</b>	<b>59.76</b>
Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers	2.9	0.98	2.96	43.9	251	2.22	4.72
Biscuits; Cookies; French Toast, Pancakes, and Waffles	2.4	0.79	2.42	46.8	266	1.68	3.83
Bread, high protein	0.0	0	0	0	0	0	0
Bread, gluten free	0.0	0.01*	na	1.1	1	1.12*	1.12*
Other breads (excluding sweet-type breads)	1.4	0.48	1.28	55.3	299	0.87	1.64
Doughnuts (Donuts); Muffins	0.5	0.17	0.70*	16.5	68	1.01	1.80*
Energy Drinks	0.9	0.31*	na	4.0	8	7.73*	10.27*
Sport or Electrolyte Drinks, Fluid Replacement Drinks	16.7	5.60	14.88	20.2	93	27.71	37.14
Enhanced or Fortified Waters	0.2	0.06*	na	1.0	8	6.19*	7.16*
Non-Milk-Based Meal Replacement Beverages	0.0	0	0	0	0	0	0
Protein Drinks	6.8	2.28*	na	2.6	8	88.88*	143.10*
Hot Breakfast Cereals (e.g., oatmeal, grits)	0.8	0.27*	na	3.8	27	7.21*	16.05*
Ready-to-Eat Breakfast Cereals	5.6	1.89	5.75	45.5	252	4.15	8.14
Processed Cheese or Cheese Mixtures; Cream Cheese and Cheese-Based Spreads	0.2	0.07*	na	5.5	27	1.30*	2.14*
Specialty Coffee Drinks (Lattes, Cappuccinos, Mochas)	1.8	0.62*	na	4.2	23	14.72*	21.48*
Ready-to-Drink Tea Beverages; Instant Tea	8.8	2.93	9.92*	11.1	65	26.37	59.52*
Frostings, Icings, and Coatings	0.0	<0.01*	na	0.0	1	0.40*	0.40*
Non-Dairy Milk and Cream (including coffee whiteners, non-dairy creamers); Soy- and/or Rice-Based Beverages	0.6	0.20	na	6.4	33	3.18	5.76*
Non-Dairy Dips	0.0	0.01*	na	0.5	3	2.76*	4.51*
Non-Dairy Whipped Toppings	0.0	0	0	0	0	0	0
Non-Dairy Yogurt	0.0	0	0	0	0	0	0
Imitation Cheese	0.0	0	0	0	0	0	0
Egg-Based Dishes	2.2	0.72	3.11	14.6	98	4.95	9.15
Egg Substitutes	0.0	<0.01*	na	0.1	1	3.56*	3.56*
Fat-Based Sauces	0.0	<0.01*	na	0.5	5	0.68*	0.60*



**Table A-4 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Male Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Margarine, and Margarine-like Spreads	0.0	<0.01*	na	3.1	17	0.12*	0.24*
Mayonnaise and Mayonnaise-Type Dressings	0.3	0.11	0.29	21.0	144	0.50	1.18
Salad Dressings	0.1	0.05	0.02*	10.0	48	0.46	0.99*
Fish-Based Entrees	0.2	0.07*	na	1.7	10	4.14*	5.61*
Ice Cream; Frozen Yogurt (Frozen Yoghurt); Other Frozen Milk Desserts	5.0	1.68	6.29	19.6	108	8.56	15.17
Edible Ices, Sherbet, and Sorbet	0.0	<0.01*	na	0.7	8	0.64*	1.07*
Flans, Custards, and Other Egg-Based Desserts	0.0	0	0	0	0	0	0
Puddings and Other Milk-Based Desserts	0.0	0	0	0	0	0	0
Cereal and Granola Bars	1.2	0.41	1.73*	11.5	49	3.57	7.50*
Energy Bars or Protein Bars; Meal Replacement Bars	0.6	0.20*	na	1.1	6	17.80*	22.40*
Macaroni and Noodle Products, excluding gluten free	2.7	0.91	3.72	24.7	145	3.69	5.45
Macaroni and Noodle Products, gluten free	0.0	0	0	0	0	0	0
Tomato-Based Sauces	0.0	0	0	0	0	0	0
White Sauces	0.0	0.01*	na	0.4	8	2.56*	3.87*
Meat-Based Entrees	6.9	2.29	8.79	25.2	152	9.09	23.37
Processed meat products	4.9	1.63	4.95	57.6	322	2.83	5.58
Evaporated, Condensed, and/or Dry Milks	0.0	<0.01*	na	0.1	1	1.58*	1.58*
Fermented Milks, Plain	0.0	0	0	0	0	0	0
Flavored Milk, Milk Drinks, and Mixes	2.4	0.82	2.48	19.8	113	4.12	8.84
Milk Shakes	0.7	0.25*	na	1.4	11	17.47*	24.50*
Milk-Based Meal Replacements	3.6	1.22*	na	1.8	9	68.48*	98.83*
Plain or Flavored Yogurt (Yoghurt)	0.3	0.09*	na	4.4	27	2.07*	3.47*
Nut Spreads	0.2	0.06	na	8.2	54	0.70	1.71*
Meat Analogs	0.3	0.09*	na	2.3	10	3.96*	5.92*
Poultry-Containing Entrees	2.3	0.77	na	8.9	34	8.66	17.49*
Fruit Juices; Fruit Nectars; Fruit Drinks and Ades; Fruit-Based Desserts	10.4	3.48	9.92	57.5	337	6.04	13.18
Fruit Smoothies	1.2	0.42*	na	2.6	20	16.14*	31.25*
Vegetable Juices; Vegetable Purees	0.1	0.04*	na	2.9	17	1.53*	2.49*



**Table A-4 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Male Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Vegetable Smoothies	0.2	0.06*	na	0.3	2	21.14*	21.20*
Potato Chips; Pretzels; Corn-Based Savory Snacks	0.9	0.31	0.76	52.3	297	0.60	1.13
Popcorn	0.1	0.03	0.02*	10.2	47	0.32	0.83*
Chocolate, Nougat and Toffees, Gummies, and Soft Candy	0.5	0.16	0.57	27.7	149	0.56	1.04
Soup (including prepared, canned, and dry mix)	2.7	0.89	4.22	15.6	107	5.70	9.88

n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

\* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90<sup>th</sup> percentile n<80).



**Table A-5 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Female Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
<b>All</b>	<b>100</b>	<b>26.95</b>	<b>50.34</b>	<b>100</b>	<b>2,386</b>	<b>26.96</b>	<b>50.34</b>
Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers	3.6	0.96	2.82	53.0	1,258	1.81	4.20
Biscuits; Cookies; French Toast, Pancakes, and Waffles	1.9	0.52	1.77	42.3	982	1.24	2.51
Bread, high protein	0.0	<0.01*	na	0.1	1	4.20*	4.20*
Bread, gluten free	0.0	<0.01*	na	0.2	4	0.68*	0.67*
Other breads (excluding sweet-type breads)	2.0	0.55	1.44	59.2	1,388	0.92	1.70
Doughnuts (Donuts); Muffins	0.3	0.09	na	8.8	207	0.98	1.92
Energy Drinks	0.3	0.07	na	1.3	31	5.71	10.12*
Sport or Electrolyte Drinks, Fluid Replacement Drinks	2.0	0.53	na	3.4	76	15.79	24.80*
Enhanced or Fortified Waters	0.9	0.25	na	3.4	61	7.31	14.40*
Non-Milk-Based Meal Replacement Beverages	0.2	0.04*	na	0.1	4	28.43*	36.80*
Protein Drinks	3.3	0.89	na	2.4	39	37.33	71.47*
Hot Breakfast Cereals (e.g., oatmeal, grits)	3.0	0.80	3.51	13.5	390	5.97	10.02
Ready-to-Eat Breakfast Cereals	3.5	0.95	3.39	31.0	711	3.05	5.58
Processed Cheese or Cheese Mixtures; Cream Cheese and Cheese-Based Spreads	0.6	0.16	0.26	11.5	212	1.37	2.47
Specialty Coffee Drinks (Lattes, Cappuccinos, Mochas)	5.1	1.36	na	6.7	162	20.45	34.80
Ready-to-Drink Tea Beverages; Instant Tea	15.2	4.11	8.06	11.2	270	36.80	71.32
Frostings, Icings, and Coatings	0.0	<0.01*	na	0.1	3	0.24*	0.31*
Non-Dairy Milk and Cream (including coffee whiteners, non-dairy creamers); Soy- and/or Rice-Based Beverages	5.3	1.42	3.13	34.4	761	4.12	10.97
Non-Dairy Dips	0.4	0.10	na	3.8	60	2.56	5.74*
Non-Dairy Whipped Toppings	0.0	0.01*	na	1.2	27	0.81*	1.53*
Non-Dairy Yogurt	0.1	0.02*	na	0.1	2	26.20*	26.20*
Imitation Cheese	0.0	<0.01*	na	0	1	3.68*	3.68*
Egg-Based Dishes	2.2	0.59	2.70	18.8	482	3.14	6.14
Egg Substitutes	0.3	0.07*	na	0.9	13	8.22*	12.13*
Fat-Based Sauces	0.0	0.01	na	3.1	62	0.29	0.58*



**Table A-5 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Female Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Margarine, and Margarine-like Spreads	0.0	0.01	0.04	17.2	375	0.06	0.12
Mayonnaise and Mayonnaise-Type Dressings	0.7	0.19	0.59	35.9	747	0.52	1.18
Salad Dressings	0.5	0.14	0.44	26.6	551	0.51	1.14
Fish-Based Entrees	1.0	0.27	na	6.6	167	4.12	8.93
Ice Cream; Frozen Yogurt (Frozen Yoghurt); Other Frozen Milk Desserts	5.1	1.38	5.19	24.6	534	5.60	12.32
Edible Ices, Sherbet, and Sorbet	0.0	0.01	na	1.5	53	0.57	0.97*
Flans, Custards, and Other Egg-Based Desserts	0.0	<0.01*	na	0	1	3.25*	3.25*
Puddings and Other Milk-Based Desserts	0.0	<0.01*	na	0	2	5.12*	5.12*
Cereal and Granola Bars	1.3	0.34	na	8.8	174	3.83	6.83
Energy Bars or Protein Bars; Meal Replacement Bars	1.0	0.26	na	2.1	42	12.50	23.80*
Macaroni and Noodle Products, excluding gluten free	2.5	0.68	2.55	24.4	546	2.79	4.96
Macaroni and Noodle Products, gluten free	0.0	<0.01*	na	0	1	3.06*	3.06*
Tomato-Based Sauces	0.0	<0.01*	na	0.2	7	0.51*	0.94*
White Sauces	0.0	0.01*	na	0.7	17	1.23*	2.47*
Meat-Based Entrees	6.7	1.80	6.25	28.9	687	6.24	12.50
Processed meat products	3.4	0.93	2.84	52.3	1,193	1.78	3.78
Evaporated, Condensed, and/or Dry Milks	0.1	0.03	na	1.4	39	2.22	5.02*
Fermented Milks, Plain	0.1	0.02*	na	0.2	6	8.60	10.68*
Flavored Milk, Milk Drinks, and Mixes	0.4	0.12	na	3.0	78	3.98	7.44*
Milk Shakes	0.3	0.09*	na	0.5	16	18.97*	24.80*
Milk-Based Meal Replacements	4.3	1.16	na	4.2	78	27.26	49.60*
Plain or Flavored Yogurt (Yoghurt)	1.6	0.44	1.70	18.9	376	2.31	3.97
Nut Spreads	0.4	0.10	0.32	15.1	299	0.64	0.96
Meat Analogs	1.0	0.28	na	2.6	67	10.75	24.50*
Poultry-Containing Entrees	2.2	0.59	1.83	11.7	239	5.05	9.23
Fruit Juices; Fruit Nectars; Fruit Drinks and Ades; Fruit-Based Desserts	7.4	2.00	6.20	40.4	1,033	4.96	9.92
Fruit Smoothies	2.9	0.78	na	5.9	122	13.19	20.09
Vegetable Juices; Vegetable Purees	0.7	0.19	na	9.9	244	1.87	3.72
Vegetable Smoothies	1.2	0.32	na	1.9	42	17.45	28.35*





**Table A-5 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Female Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Potato Chips; Pretzels; Corn-Based Savory Snacks	0.8	0.20	0.60	44.0	897	0.46	0.93
Popcorn	0.1	0.02	na	9.5	216	0.18	0.42
Chocolate, Nougat and Toffees, Gummies, and Soft Candy	0.5	0.15	0.46	32.8	706	0.45	0.96
Soup (including prepared, canned, and dry mix)	3.6	0.98	4.22	22.6	583	4.31	7.98

n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

\* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90<sup>th</sup> percentile n<80).



**Table A-6 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Male Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
<b>All</b>	<b>100</b>	<b>32.78</b>	<b>58.26</b>	<b>100</b>	<b>2,090</b>	<b>32.79</b>	<b>58.26</b>
Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers	3.9	1.29	3.84	53.8	1,043	2.40	5.19
Biscuits; Cookies; French Toast, Pancakes, and Waffles	1.9	0.64	2.07	41.4	841	1.54	3.27
Bread, high protein	0.0	<0.01*	na	0.1	1	6.45*	6.45*
Bread, gluten free	0.0	<0.01*	na	0.1	2	0.56*	0.56*
Other breads (excluding sweet-type breads)	2.0	0.66	1.68	60.2	1,275	1.09	2.16
Doughnuts (Donuts); Muffins	0.3	0.09	na	7.4	173	1.27	2.60
Energy Drinks	0.9	0.29	na	4.2	90	6.96	9.92
Sport or Electrolyte Drinks, Fluid Replacement Drinks	4.7	1.54	na	8.0	162	19.20	38.40
Enhanced or Fortified Waters	0.8	0.26	na	2.5	48	10.02	15.60*
Non-Milk-Based Meal Replacement Beverages	0.2	0.05*	na	0.1	3	54.65*	72.41*
Protein Drinks	6.9	2.28	na	2.3	37	98.21	341.34*
Hot Breakfast Cereals (e.g., oatmeal, grits)	2.6	0.84	2.16	10.4	292	8.06	16.16
Ready-to-Eat Breakfast Cereals	3.9	1.29	4.73	28.5	574	4.53	8.50
Processed Cheese or Cheese Mixtures; Cream Cheese and Cheese-Based Spreads	0.4	0.12	na	7.2	130	1.63	3.05
Specialty Coffee Drinks (Lattes, Cappuccinos, Mochas)	2.5	0.82	na	4.3	106	18.98	30.00
Ready-to-Drink Tea Beverages; Instant Tea	14.3	4.68	9.92	11.8	250	39.55	79.36
Frostings, Icings, and Coatings	0.0	<0.01*	na	<0.1	2	0.11*	0.15*
Non-Dairy Milk and Cream (including coffee whiteners, non-dairy creamers); Soy- and/or Rice-Based Beverages	2.9	0.95	1.80	22.4	525	4.23	12.20
Non-Dairy Dips	0.2	0.08	na	2.2	31	3.64	6.43*
Non-Dairy Whipped Toppings	0.1	0.02*	na	1.3	11	1.29*	2.82*
Non-Dairy Yogurt	0.0	0	0	0	0	0	0
Imitation Cheese	0.0	<0.01*	na	<0.1	1	7.35*	7.35*
Egg-Based Dishes	2.7	0.87	3.75	19.1	413	4.57	7.91
Egg Substitutes	0.2	0.07*	na	0.6	14	10.42*	16.20*
Fat-Based Sauces	0.0	0.01	na	1.9	45	0.78	2.32*



**Table A-6 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Male Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
Margarine, and Margarine-like Spreads	0.0	0.01	0.05	14.2	284	0.08	0.19
Mayonnaise and Mayonnaise-Type Dressings	0.5	0.16	0.48	29.5	640	0.55	1.23
Salad Dressings	0.4	0.13	0.44	19.1	364	0.68	1.76
Fish-Based Entrees	0.8	0.25	na	5.1	108	4.82	10.29
Ice Cream; Frozen Yogurt (Frozen Yoghurt); Other Frozen Milk Desserts	5.3	1.74	7.08	23.7	443	7.33	13.91
Edible Ices, Sherbet, and Sorbet	0.0	0.02	na	3.0	34	0.52	0.97*
Flans, Custards, and Other Egg-Based Desserts	0.0	0	0	0	0	0	0
Puddings and Other Milk-Based Desserts	0.0	0	0	0	0	0	0
Cereal and Granola Bars	1.1	0.36	0.19	10.1	153	3.51	6.00
Energy Bars or Protein Bars; Meal Replacement Bars	1.0	0.32	na	2.5	40	12.70	23.09*
Macaroni and Noodle Products, excluding gluten free	2.5	0.83	3.38	20.5	412	4.04	7.62
Macaroni and Noodle Products, gluten free	0.0	<0.01*	na	0.1	1	1.58*	1.58*
Tomato-Based Sauces	0.0	<0.01*	na	0.0	1	0.58*	0.58*
White Sauces	0.0	0.01*	na	0.3	6	1.71*	2.46*
Meat-Based Entrees	8.3	2.74	9.34	31.2	661	8.78	18.30
Processed meat products	4.5	1.47	4.59	58.2	1,219	2.53	5.45
Evaporated, Condensed, and/or Dry Milks	0.1	0.03*	na	0.7	24	4.38*	10.93*
Fermented Milks, Plain	0.0	0	0	0	0	0	0
Flavored Milk, Milk Drinks, and Mixes	0.5	0.16	na	3.5	78	4.67	8.99*
Milk Shakes	0.2	0.08*	na	0.4	10	18.06*	24.39*
Milk-Based Meal Replacements	4.6	1.51	na	3.6	65	41.35	96.90*
Plain or Flavored Yogurt (Yoghurt)	0.8	0.27	1.07	11.0	201	2.44	4.90
Nut Spreads	0.4	0.12	0.32	13.9	240	0.87	1.92
Meat Analogs	0.7	0.23	na	3.3	54	6.96	21.00*
Poultry-Containing Entrees	2.4	0.78	1.80	10.7	178	7.27	13.42
Fruit Juices; Fruit Nectars; Fruit Drinks and Ades; Fruit-Based Desserts	6.6	2.17	7.13	37.4	883	5.80	12.56
Fruit Smoothies	1.7	0.56	na	3.9	75	14.19	25.92*
Vegetable Juices; Vegetable Purees	0.7	0.23	0.27	10.2	199	2.25	4.01
Vegetable Smoothies	0.7	0.22*	na	1.3	24	16.84*	25.07*



**Table A-6 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Male Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Potato Chips; Pretzels; Corn-Based Savory Snacks	0.8	0.25	0.80	43.4	826	0.58	1.06
Popcorn	0.1	0.02	na	7.7	153	0.31	0.55
Chocolate, Nougat and Toffees, Gummies, and Soft Candy	0.5	0.16	0.53	28.1	542	0.57	1.16
Soup (including prepared, canned, and dry mix)	3.5	1.14	4.68	19.8	463	5.79	10.19

n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

\* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90<sup>th</sup> percentile n<80).



**Table A-7 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by the Total U.S. Population (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
<b>All</b>	<b>100</b>	<b>28.14</b>	<b>51.40</b>	<b>99.0</b>	<b>7,363</b>	<b>28.42</b>	<b>51.62</b>
Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers	3.8	1.06	3.25	53.3	3,867	1.99	4.39
Biscuits; Cookies; French Toast, Pancakes, and Waffles	2.1	0.60	1.89	44.7	3,362	1.35	2.82
Bread, high protein	0.0	<0.01*	na	0.1	2	5.11*	5.90*
Bread, gluten free	0.0	<0.01*	na	0.2	9	0.92*	1.19*
Other breads (excluding sweet-type breads)	2.0	0.55	1.44	58.0	4,213	0.96	1.80
Doughnuts (Donuts); Muffins	0.3	0.10	na	9.3	729	1.05	2.10
Energy Drinks	0.6	0.16	na	2.3	137	6.72	10.31
Sport or Electrolyte Drinks, Fluid Replacement Drinks	4.6	1.29	na	7.3	539	17.67	30.00
Enhanced or Fortified Waters	0.8	0.23	na	2.8	164	8.29	15.60
Non-Milk-Based Meal Replacement Beverages	0.1	0.04*	na	0.1	10	32.94*	51.11*
Protein Drinks	4.6	1.30	na	2.0	94	65.64	115.50
Hot Breakfast Cereals (e.g., oatmeal, grits)	2.5	0.70	1.76	10.8	942	6.49	11.36
Ready-to-Eat Breakfast Cereals	4.3	1.20	4.00	35.2	2,770	3.40	6.45
Processed Cheese or Cheese Mixtures; Cream Cheese and Cheese-Based Spreads	0.5	0.13	na	9.2	552	1.43	2.90
Specialty Coffee Drinks (Lattes, Cappuccinos, Mochas)	3.2	0.90	na	4.7	345	19.14	34.72
Ready-to-Drink Tea Beverages; Instant Tea	13.3	3.76	7.36	10.9	780	34.53	66.00
Frostings, Icings, and Coatings	0.0	<0.01*	na	0.2	22	0.16*	0.30*
Non-Dairy Milk and Cream (including coffee whiteners, non-dairy creamers); Soy- and/or Rice-Based Beverages	3.5	0.99	1.80	22.4	1,438	4.40	12.20
Non-Dairy Dips	0.3	0.07	na	2.5	121	2.94	6.15
Non-Dairy Whipped Toppings	0.0	0.01	na	0.9	41	1.06	1.88*
Non-Dairy Yogurt	0.0	0.01*	na	0.1	4	20.61*	26.20*
Imitation Cheese	0.0	<0.01*	na	0	3	4.18*	4.68*
Egg-Based Dishes	2.4	0.67	2.90	18.6	1,435	3.61	6.90
Egg Substitutes	0.2	0.06	na	0.6	35	9.14	14.23*
Fat-Based Sauces	0.0	0.01	na	2.0	127	0.48	1.16
Margarine, and Margarine-like Spreads	0.0	0.01	0.02	13.7	840	0.07	0.14



**Table A-7 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by the Total U.S. Population (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Mayonnaise and Mayonnaise-Type Dressings	0.6	0.16	0.52	30.4	2,092	0.52	1.18
Salad Dressings	0.4	0.11	0.44	19.2	1,127	0.57	1.18
Fish-Based Entrees	0.8	0.22	na	5.1	354	4.20	8.40
Ice Cream; Frozen Yogurt (Frozen Yoghurt); Other Frozen Milk Desserts	5.5	1.55	5.92	24.6	1,665	6.31	12.95
Edible Ices, Sherbet, and Sorbet	0.1	0.02	na	3.8	292	0.45	0.95
Flans, Custards, and Other Egg-Based Desserts	0.0	<0.01*	na	0	1	3.25*	3.25*
Puddings and Other Milk-Based Desserts	0.0	<0.01*	na	0	2	5.12*	5.12*
Cereal and Granola Bars	1.3	0.35	na	9.8	576	3.58	6.30
Energy Bars or Protein Bars; Meal Replacement Bars	0.9	0.26	na	2.1	119	12.35	23.80
Macaroni and Noodle Products, excluding gluten free	2.8	0.78	3.02	24.3	1,845	3.19	5.57
Macaroni and Noodle Products, gluten free	0.0	<0.01*	na	0	2	2.09*	2.63*
Tomato-Based Sauces	0.0	<0.01*	na	0.1	10	0.45*	1.20*
White Sauces	0.0	0.01	na	0.5	49	1.24	2.50*
Meat-Based Entrees	7.3	2.04	7.35	28.8	2,106	7.09	15.05
Processed meat products	4.1	1.14	3.39	55.1	3,979	2.07	4.61
Evaporated, Condensed, and/or Dry Milks	0.1	0.03	na	0.9	77	3.81	10.71*
Fermented Milks, Plain	0.0	0.01*	na	0.1	7	8.20*	10.66*
Flavored Milk, Milk Drinks, and Mixes	1.1	0.32	na	8.2	811	3.95	7.44
Milk Shakes	0.4	0.11	na	0.6	52	18.04	26.22*
Milk-Based Meal Replacements	3.9	1.09	na	3.3	175	32.81	64.00
Plain or Flavored Yogurt (Yoghurt)	1.2	0.34	1.53	15.6	1,030	2.20	3.97
Nut Spreads	0.4	0.11	0.32	14.7	970	0.71	1.44
Meat Analogs	0.8	0.24	na	2.6	161	9.04	24.50
Poultry-Containing Entrees	2.1	0.60	na	10.0	585	5.99	11.14
Fruit Juices; Fruit Nectars; Fruit Drinks and Ades; Fruit-Based Desserts	8.5	2.41	7.21	45.7	3,919	5.26	10.85
Fruit Smoothies	2.4	0.67	na	5.2	368	12.95	22.68
Vegetable Juices; Vegetable Purees	0.6	0.17	na	8.4	597	1.98	3.98
Vegetable Smoothies	0.7	0.21	na	1.3	86	16.43	28.35
Potato Chips; Pretzels; Corn-Based Savory Snacks	0.8	0.23	0.68	45.6	3,236	0.51	0.98
Popcorn	0.1	0.02	na	9.5	732	0.21	0.44



**Table A-7 Estimated Daily Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by the Total U.S. Population (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Chocolate, Nougat and Toffees, Gummies, and Soft Candy	0.6	0.16	0.50	31.3	2,194	0.50	1.04
Soup (including prepared, canned, and dry mix)	3.5	0.98	4.22	20.4	1,662	4.80	8.74

n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

\* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90<sup>th</sup> percentile n<80).



**Appendix B**  
**Estimated Daily Per Kilogram Body Weight Intake of Protein from**  
**Peazazz and Peazac from Individual Proposed Food-Uses by Different**  
**Population Groups within the U.S. (2013-2014 NHANES Data)**





**Table B-1 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Infants and Young Children Aged Up to 2 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
<b>All</b>	<b>100</b>	<b>0.98</b>	<b>2.0</b>	<b>76.8</b>	<b>466</b>	<b>1.27</b>	<b>2.12</b>
Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers	4.0	0.04	0.12	49.5	266	0.08	0.16
Biscuits; Cookies; French Toast, Pancakes, and Waffles	2.6	0.03	0.08	41.8	243	0.06	0.13
Bread, high protein	0.0	0	0	0	0	0	0
Bread, gluten free	0.0	<0.01*	na	0.4	1	0.11*	0.11*
Other breads (excluding sweet-type breads)	1.6	0.02	0.06	39.2	207	0.04	0.08
Doughnuts (Donuts); Muffins	0.3	<0.01	na	4.9	30	0.06	0.15*
Energy Drinks	0.0	0	0	0	0	0	0
Sport or Electrolyte Drinks, Fluid Replacement Drinks	4.3	0.04*	na	5.1	26	0.82*	2.04*
Enhanced or Fortified Waters	0.2	<0.01*	na	0.8	3	0.30*	0.42*
Non-Milk-Based Meal Replacement Beverages	0.0	0	0	0	0	0	0
Protein Drinks	1.6	0.02*	na	0.5	2	3.02*	3.31*
Hot Breakfast Cereals (e.g., oatmeal, grits)	4.9	0.05	0.21*	13.7	79	0.35	0.62*
Ready-to-Eat Breakfast Cereals	5.3	0.05	0.16	42.4	224	0.12	0.25
Processed Cheese or Cheese Mixtures; Cream Cheese and Cheese-Based Spreads	0.2	<0.01*	na	3.7	19	0.06*	0.15*
Specialty Coffee Drinks (Lattes, Cappuccinos, Mochas)	0.1	<0.01*	na	0.3	2	0.29*	0.31*
Ready-to-Drink Tea Beverages; Instant Tea	2.2	0.02*	na	2.5	14	0.86*	0.83*
Frostings, Icings, and Coatings	0.0	<0.01*	na	0.7	5	0.01*	0.02*
Non-Dairy Milk and Cream (including coffee whiteners, non-dairy creamers); Soy- and/or Rice-Based Beverages	10.5	0.10*	na	5.5	27	1.86*	5.40*
Non-Dairy Dips	0.7	0.01*	na	2.1	8	0.35*	0.54*
Non-Dairy Whipped Toppings	0.0	0	0	0	0	0	0
Non-Dairy Yogurt	0.4	<0.01*	na	0.5	2	0.81*	0.77*
Imitation Cheese	0.0	0	0	0	0	0	0
Egg-Based Dishes	3.9	0.04	0.17	22.5	124	0.17	0.27
Egg Substitutes	0.1	<0.01*	na	0.3	1	0.27*	0.27*
Fat-Based Sauces	0.0	<0.01*	na	0.1	2	0.01*	0.01*



**Table B-1 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Infants and Young Children Aged Up to 2 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
Margarine, and Margarine-like Spreads	0.0	<0.01	na	6.1	33	<0.01	<0.01*
Mayonnaise and Mayonnaise-Type Dressings	0.1	<0.01	na	9.4	48	0.01	0.04*
Salad Dressings	0.0	<0.01*	na	2.0	14	0.01*	0.01*
Fish-Based Entrees	0.2	<0.01*	na	1.0	9	0.17*	0.16*
Ice Cream; Frozen Yogurt (Frozen Yoghurt); Other Frozen Milk Desserts	2.2	0.02	0.03*	11.2	74	0.19	0.42*
Edible Ices, Sherbet, and Sorbet	0.1	<0.01	na	5.1	31	0.02	0.03*
Flans, Custards, and Other Egg-Based Desserts	0.0	0	0	0	0	0	0
Puddings and Other Milk-Based Desserts	0.0	0	0	0	0	0	0
Cereal and Granola Bars	1.9	0.02*	na	5.0	22	0.37*	0.64*
Energy Bars or Protein Bars; Meal Replacement Bars	0.5	<0.01*	na	0.8	6	0.60*	0.76*
Macaroni and Noodle Products, excluding gluten free	4.4	0.04	0.18	25.7	147	0.17	0.37
Macaroni and Noodle Products, gluten free	0.0	0	0	0	0	0	0
Tomato-Based Sauces	0.0	0	0	0	0	0	0
White Sauces	0.0	<0.01*	na	0.4	5	0.03*	0.09*
Meat-Based Entrees	4.5	0.04	0.16	20.1	109	0.22	0.46
Processed meat products	3.3	0.03	0.12	39.1	198	0.08	0.19
Evaporated, Condensed, and/or Dry Milks	0.2	<0.01*	na	0.1	2	2.65*	3.69*
Fermented Milks, Plain	0.0	<0.01*	na	0.1	1	0.14*	0.14*
Flavored Milk, Milk Drinks, and Mixes	2.1	0.02	na	8.2	42	0.25	0.44*
Milk Shakes	0.1	<0.01*	na	0.1	1	0.46*	0.46*
Milk-Based Meal Replacements	4.8	0.05*	na	3.0	7	1.55*	2.65*
Plain or Flavored Yogurt (Yoghurt)	2.9	0.03	0.10	21.1	113	0.14	0.30
Nut Spreads	0.6	0.01	0.02*	18.3	73	0.03	0.07*
Meat Analogs	0.9	0.01*	na	0.6	4	1.37*	1.50*
Poultry-Containing Entrees	2.3	0.02	na	7.6	36	0.29	0.48*
Fruit Juices; Fruit Nectars; Fruit Drinks and Ades; Fruit-Based Desserts	18.0	0.18	0.53	51.5	301	0.34	0.72
Fruit Smoothies	1.2	0.01*	na	2.9	16	0.40*	0.58*
Vegetable Juices; Vegetable Purees	0.9	0.01	na	6.3	36	0.15	0.24*
Vegetable Smoothies	0.3	<0.01*	na	1.5	9	0.23*	0.33*



**Table B-1 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Infants and Young Children Aged Up to 2 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Potato Chips; Pretzels; Corn-Based Savory Snacks	0.6	0.01	0.02	29.0	162	0.02	0.04
Popcorn	0.0	<0.01	na	7.8	47	0.01	0.01*
Chocolate, Nougat and Toffees, Gummies, and Soft Candy	0.4	<0.01	0.01	18.9	106	0.02	0.06
Soup (including prepared, canned, and dry mix)	4.1	0.04	0.15	18.2	109	0.22	0.42

bw= body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

\* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90<sup>th</sup> percentile n<80).



**Table B-2 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Children Aged 3 to 11 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
<b>All</b>	<b>100</b>	<b>0.84</b>	<b>1.44</b>	<b>100</b>	<b>1,275</b>	<b>0.84</b>	<b>1.44</b>
Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers	4.8	0.04	0.11	62.1	767	0.06	0.14
Biscuits; Cookies; French Toast, Pancakes, and Waffles	3.5	0.03	0.08	61.8	748	0.05	0.09
Bread, high protein	0.0	0	0	0	0	0	0
Bread, gluten free	0.0	<0.01*	na	0.1	1	0.06*	0.06*
Other breads (excluding sweet-type breads)	2.5	0.02	0.05	62.0	761	0.03	0.07
Doughnuts (Donuts); Muffins	0.6	0.01	0.02	15.1	190	0.03	0.06
Energy Drinks	0.0	<0.01*	na	0.1	1	0.11*	0.11*
Sport or Electrolyte Drinks, Fluid Replacement Drinks	5.6	0.05	0.14	12.3	127	0.38	0.80
Enhanced or Fortified Waters	0.3	<0.01*	na	2.1	25	0.13*	0.24*
Non-Milk-Based Meal Replacement Beverages	0.0	0	0	0	0	0	0
Protein Drinks	0.1	<0.01*	na	0.1	2	0.41*	0.41*
Hot Breakfast Cereals (e.g., oatmeal, grits)	2.2	0.02	na	8.3	116	0.22	0.50
Ready-to-Eat Breakfast Cereals	7.3	0.06	0.17	59.0	771	0.10	0.21
Processed Cheese or Cheese Mixtures; Cream Cheese and Cheese-Based Spreads	0.9	0.01	0.02	11.8	119	0.06	0.15
Specialty Coffee Drinks (Lattes, Cappuccinos, Mochas)	0.2	<0.01*	na	0.6	12	0.27*	0.36*
Ready-to-Drink Tea Beverages; Instant Tea	3.4	0.03	na	6.2	93	0.45	1.08
Frostings, Icings, and Coatings	0.0	<0.01*	na	1.0	10	0.01*	0.01*
Non-Dairy Milk and Cream (including coffee whiteners, non-dairy creamers); Soy- and/or Rice-Based Beverages	1.6	0.01	na	4.2	49	0.33	0.88*
Non-Dairy Dips	0.2	<0.01*	na	0.7	11	0.18*	0.27*
Non-Dairy Whipped Toppings	0.0	<0.01*	na	0.2	3	0.05*	0.07*
Non-Dairy Yogurt	0.0	0	0	0	0	0	0
Imitation Cheese	0.0	<0.01*	na	0.2	1	0.08*	0.08*
Egg-Based Dishes	2.3	0.02	0.09	19.4	231	0.10	0.17
Egg Substitutes	0.0	<0.01*	na	0.1	2	0.11*	0.12*
Fat-Based Sauces	0.0	<0.01*	na	0.3	8	0.04*	0.07*



**Table B-2 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Children Aged 3 to 11 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Margarine, and Margarine-like Spreads	0.0	<0.01	na	11.2	98	<0.01	0.01
Mayonnaise and Mayonnaise-Type Dressings	0.4	<0.01	0.01	28.3	351	0.01	0.02
Salad Dressings	0.1	<0.01	na	7.8	88	0.01	0.04
Fish-Based Entrees	0.6	<0.01	na	5.1	45	0.09	0.18*
Ice Cream; Frozen Yogurt (Frozen Yoghurt); Other Frozen Milk Desserts	8.2	0.07	0.22	34.5	381	0.20	0.42
Edible Ices, Sherbet, and Sorbet	0.3	<0.01	0.01	15.6	150	0.01	0.03
Flans, Custards, and Other Egg-Based Desserts	0.0	0	0	0	0	0	0
Puddings and Other Milk-Based Desserts	0.0	0	0	0	0	0	0
Cereal and Granola Bars	1.4	0.01	0.04	11.0	115	0.10	0.17
Energy Bars or Protein Bars; Meal Replacement Bars	0.5	<0.01*	na	1.2	17	0.32*	0.36*
Macaroni and Noodle Products, excluding gluten free	4.3	0.04	0.12	33.5	442	0.11	0.19
Macaroni and Noodle Products, gluten free	0.0	0	0	0	0	0	0
Tomato-Based Sauces	0.0	0	0	0	0	0	0
White Sauces	0.0	<0.01*	na	0.9	11	0.02*	0.03*
Meat-Based Entrees	6.2	0.05	0.20	28.0	348	0.19	0.36
Processed meat products	4.2	0.04	0.10	61.6	754	0.06	0.12
Evaporated, Condensed, and/or Dry Milks	0.6	0.01*	na	0.5	7	0.99*	2.05*
Fermented Milks, Plain	0.0	0	0	0	0	0	0
Flavored Milk, Milk Drinks, and Mixes	5.6	0.05	0.16	32.0	431	0.15	0.30
Milk Shakes	0.4	<0.01*	na	0.8	8	0.38*	0.57*
Milk-Based Meal Replacements	0.6	<0.01*	na	1.4	10	0.36*	0.50*
Plain or Flavored Yogurt (Yoghurt)	2.1	0.02	0.07	23.6	258	0.07	0.18
Nut Spreads	0.6	<0.01	0.02	19.7	248	0.02	0.06
Meat Analogs	0.5	<0.01*	na	1.0	14	0.42*	1.17*
Poultry-Containing Entrees	1.0	0.01	na	5.8	66	0.15	0.27*
Fruit Juices; Fruit Nectars; Fruit Drinks and Ades; Fruit-Based Desserts	18.4	0.15	0.32	79.8	1,025	0.19	0.37
Fruit Smoothies	2.9	0.02	na	7.3	92	0.33	0.57
Vegetable Juices; Vegetable Purees	0.3	<0.01	na	3.8	81	0.06	0.12
Vegetable Smoothies	0.0	<0.01*	na	0.1	8	0.27*	0.33*



**Table B-2 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Children Aged 3 to 11 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Potato Chips; Pretzels; Corn-Based Savory Snacks	1.3	0.01	0.03	59.1	734	0.02	0.03
Popcorn	0.1	<0.01	na	15.3	202	0.00	0.01
Chocolate, Nougat and Toffees, Gummies, and Soft Candy	1.0	0.01	0.02	42.4	501	0.02	0.05
Soup (including prepared, canned, and dry mix)	2.9	0.02	0.10	17.3	263	0.14	0.27

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

\* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90<sup>th</sup> percentile n<80).



**Table B-3 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Female Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
<b>All</b>	<b>100</b>	<b>0.41</b>	<b>0.79</b>	<b>100</b>	<b>568</b>	<b>0.41</b>	<b>0.79</b>
Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers	3.6	0.01	0.05	46.7	268	0.03	0.06
Biscuits; Cookies; French Toast, Pancakes, and Waffles	2.2	0.01	0.03	47.8	275	0.02	0.04
Bread, high protein	0.0	0	0	0	0	0	0
Bread, gluten free	0.0	0	0	0	0	0	0
Other breads (excluding sweet-type breads)	1.4	0.01	0.02	43.2	271	0.01	0.02
Doughnuts (Donuts); Muffins	0.4	<0.01	na	8.7	61	0.02	0.04*
Energy Drinks	0.5	<0.01*	na	1.9	7	0.10*	0.18*
Sport or Electrolyte Drinks, Fluid Replacement Drinks	4.1	0.02	na	9.0	53	0.19	0.31*
Enhanced or Fortified Waters	2.0	0.01*	na	4.0	19	0.21*	0.39*
Non-Milk-Based Meal Replacement Beverages	0.1	<0.01*	na	0.4	3	0.11*	0.23*
Protein Drinks	1.6	0.01*	na	1.4	6	0.46*	0.82*
Hot Breakfast Cereals (e.g., oatmeal, grits)	1.1	<0.01	na	5.0	38	0.09	0.17*
Ready-to-Eat Breakfast Cereals	5.5	0.02	0.07	43.3	228	0.05	0.10
Processed Cheese or Cheese Mixtures; Cream Cheese and Cheese-Based Spreads	0.4	<0.01	na	8.0	43	0.02	0.04*
Specialty Coffee Drinks (Lattes, Cappuccinos, Mochas)	4.0	0.02	na	5.9	40	0.29	0.50*
Ready-to-Drink Tea Beverages; Instant Tea	18.3	0.08	0.27	18.9	86	0.40	0.89
Frostings, Icings, and Coatings	0.0	<0.01*	na	0.6	1	<0.01*	<0.01*
Non-Dairy Milk and Cream (including coffee whiteners, non-dairy creamers); Soy- and/or Rice-Based Beverages	1.2	0.01	na	5.6	43	0.09	0.18*
Non-Dairy Dips	0.1	<0.01*	na	2.1	8	0.03*	0.07*
Non-Dairy Whipped Toppings	0.0	0	0	0	0	0	0
Non-Dairy Yogurt	0.0	0	0	0	0	0	0
Imitation Cheese	0.0	0	0	0	0	0	0
Egg-Based Dishes	1.6	0.01	0.03	13.3	81	0.05	0.08
Egg Substitutes	0.4	<0.01*	na	0.8	4	0.19*	0.22*
Fat-Based Sauces	0.0	<0.01*	na	0.7	5	0.01*	0.01*



**Table B-3 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Female Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Margarine, and Margarine-like Spreads	0.0	<0.01	na	7.3	33	<0.01	<0.01*
Mayonnaise and Mayonnaise-Type Dressings	0.8	<0.01	0.01	27.7	153	0.01	0.04
Salad Dressings	0.4	<0.01	<0.01*	15.2	60	0.01	0.02*
Fish-Based Entrees	0.2	<0.01*	na	1.6	13	0.06*	0.13*
Ice Cream; Frozen Yogurt (Frozen Yoghurt); Other Frozen Milk Desserts	5.7	0.02	0.08	23.8	119	0.10	0.19
Edible Ices, Sherbet, and Sorbet	0.1	<0.01*	na	3.0	16	0.01*	0.02*
Flans, Custards, and Other Egg-Based Desserts	0.0	0	0	0	0	0	0
Puddings and Other Milk-Based Desserts	0.0	0	0	0	0	0	0
Cereal and Granola Bars	2.3	0.01	0.04*	15.2	63	0.06	0.11*
Energy Bars or Protein Bars; Meal Replacement Bars	1.0	<0.01*	na	2.8	8	0.14*	0.17*
Macaroni and Noodle Products, excluding gluten free	3.4	0.01	0.05	28.6	150	0.05	0.10
Macaroni and Noodle Products, gluten free	0.0	0	0	0	0	0	0
Tomato-Based Sauces	0.0	<0.01*	na	0.3	2	<0.01*	<0.01*
White Sauces	0.0	<0.01*	na	0.1	2	0.02*	0.02*
Meat-Based Entrees	5.8	0.02	0.09	25.7	145	0.09	0.20
Processed meat products	4.1	0.02	0.04	51.5	279	0.03	0.07
Evaporated, Condensed, and/or Dry Milks	0.0	<0.01*	na	0.7	4	0.01*	0.02*
Fermented Milks, Plain	0.0	0	0	0	0	0	0
Flavored Milk, Milk Drinks, and Mixes	1.9	0.01	0.04*	14.0	67	0.06	0.10*
Milk Shakes	0.9	<0.01*	na	1.2	6	0.32*	0.39*
Milk-Based Meal Replacements	0.3	<0.01*	na	0.5	6	0.26*	0.31*
Plain or Flavored Yogurt (Yoghurt)	1.0	<0.01	0.02*	12.8	52	0.03	0.07*
Nut Spreads	0.3	<0.01	<0.01*	10.9	51	0.01	0.03*
Meat Analogs	2.1	0.01*	na	3.2	12	0.26*	0.33*
Poultry-Containing Entrees	1.0	<0.01	na	4.3	30	0.09	0.16*
Fruit Juices; Fruit Nectars; Fruit Drinks and Ades; Fruit-Based Desserts	9.3	0.04	0.11	49.2	325	0.08	0.15
Fruit Smoothies	4.8	0.02	na	8.2	43	0.24	0.39*
Vegetable Juices; Vegetable Purees	0.2	<0.01*	na	3.4	20	0.02*	0.03*
Vegetable Smoothies	0.0	<0.01*	na	0.0	1	0.06*	0.06*





**Table B-3 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Female Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Potato Chips; Pretzels; Corn-Based Savory Snacks	1.0	<0.01	0.01	49.8	313	0.01	0.02
Popcorn	0.1	<0.01	<0.01*	10.6	67	<0.01	<0.01*
Chocolate, Nougat and Toffees, Gummies, and Soft Candy	0.6	<0.01	0.01	32.3	183	0.01	0.02
Soup (including prepared, canned, and dry mix)	4.4	0.02	0.07	20.5	130	0.09	0.13

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

\* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements.



**Table B-4 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Male Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
<b>All</b>	<b>100</b>	<b>0.48</b>	<b>0.94</b>	<b>99.7</b>	<b>556</b>	<b>0.49</b>	<b>0.94</b>
Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers	3.0	0.01	0.04	43.5	249	0.03	0.07
Biscuits; Cookies; French Toast, Pancakes, and Waffles	2.3	0.01	0.04	46.4	265	0.02	0.05
Bread, high protein	0.0	0	0	0	0	0	0
Bread, gluten free	0.0	<0.01*	na	1.1	1	0.02*	0.02*
Other breads (excluding sweet-type breads)	1.5	0.01	0.02	55.0	298	0.01	0.03
Doughnuts (Donuts); Muffins	0.5	<0.01	0.01*	16.6	67	0.02	0.03*
Energy Drinks	0.5	<0.01*	na	4.0	8	0.07*	0.10*
Sport or Electrolyte Drinks, Fluid Replacement Drinks	15.4	0.07	0.16	20.4	93	0.37	0.68
Enhanced or Fortified Waters	0.2	<0.01*	na	1.0	8	0.09*	0.13*
Non-Milk-Based Meal Replacement Beverages	0.0	0	0	0	0	0	0
Protein Drinks	6.3	0.03*	na	2.6	8	1.17*	2.31*
Hot Breakfast Cereals (e.g., oatmeal, grits)	1.0	<0.01*	na	3.8	27	0.12*	0.30*
Ready-to-Eat Breakfast Cereals	6.1	0.03	0.09	45.9	252	0.06	0.14
Processed Cheese or Cheese Mixtures; Cream Cheese and Cheese-Based Spreads	0.2	<0.01*	na	4.8	25	0.02*	0.03*
Specialty Coffee Drinks (Lattes, Cappuccinos, Mochas)	2.0	0.01*	na	4.2	23	0.22*	0.39*
Ready-to-Drink Tea Beverages; Instant Tea	8.0	0.04	0.11*	10.4	64	0.37	0.75*
Frostings, Icings, and Coatings	0.0	<0.01*	na	0.0	1	0.01*	0.01*
Non-Dairy Milk and Cream (including coffee whiteners, non-dairy creamers); Soy- and/or Rice-Based Beverages	0.5	<0.01	na	5.7	32	0.05	0.07*
Non-Dairy Dips	0.0	<0.01*	na	0.5	3	0.04*	0.07*
Non-Dairy Whipped Toppings	0.0	0	0	0	0	0	0
Non-Dairy Yogurt	0.0	0	0	0	0	0	0
Imitation Cheese	0.0	0	0	0	0	0	0
Egg-Based Dishes	2.1	0.01	0.05	14.7	98	0.07	0.13
Egg Substitutes	0.0	<0.01*	na	0.1	1	0.03*	0.03*
Fat-Based Sauces	0.0	<0.01*	na	0.5	5	0.01*	0.01*



**Table B-4 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Male Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup>
Margarine, and Margarine-like Spreads	0.0	<0.01*	na	3.1	17	<0.01*	<0.01*
Mayonnaise and Mayonnaise-Type Dressings	0.3	<0.01	0.01	21.1	144	0.01	0.02
Salad Dressings	0.1	<0.01	<0.01*	10.1	47	0.01	0.01*
Fish-Based Entrees	0.1	<0.01*	na	0.9	9	0.07*	0.08*
Ice Cream; Frozen Yogurt (Frozen Yoghurt); Other Frozen Milk Desserts	5.1	0.02	0.10	19.0	106	0.13	0.23
Edible Ices, Sherbet, and Sorbet	0.0	<0.01*	na	0.7	8	0.01*	0.03*
Flans, Custards, and Other Egg-Based Desserts	0.0	0	0	0	0	0	0
Puddings and Other Milk-Based Desserts	0.0	0	0	0	0	0	0
Cereal and Granola Bars	1.4	0.01	0.03*	11.6	49	0.06	0.10*
Energy Bars or Protein Bars; Meal Replacement Bars	0.5	<0.01*	na	1.1	6	0.21*	0.26*
Macaroni and Noodle Products, excluding gluten free	2.8	0.01	0.06	24.2	144	0.06	0.09
Macaroni and Noodle Products, gluten free	0.0	0	0	0	0	0	0
Tomato-Based Sauces	0.0	0	0	0	0	0	0
White Sauces	0.0	<0.01*	na	0.4	8	0.03*	0.05*
Meat-Based Entrees	7.3	0.04	0.14	24.7	151	0.14	0.33
Processed meat products	4.9	0.02	0.07	57.3	320	0.04	0.09
Evaporated, Condensed, and/or Dry Milks	0.0	<0.01*	na	0.1	1	0.01*	0.01*
Fermented Milks, Plain	0.0	0	0	0	0	0	0
Flavored Milk, Milk Drinks, and Mixes	2.7	0.01	0.05	20.0	113	0.07	0.12
Milk Shakes	0.8	<0.01*	na	1.4	11	0.26*	0.43*
Milk-Based Meal Replacements	3.4	0.02*	na	1.8	9	0.91*	1.28*
Plain or Flavored Yogurt (Yoghurt)	0.4	<0.01*	na	4.5	27	0.04*	0.07*
Nut Spreads	0.2	<0.01	na	8.2	54	0.01	0.03*
Meat Analogs	0.3	<0.01*	na	2.3	10	0.06*	0.06*
Poultry-Containing Entrees	2.3	0.01	na	9.0	34	0.12	0.28*
Fruit Juices; Fruit Nectars; Fruit Drinks and Ades; Fruit-Based Desserts	11.1	0.05	0.15	58.0	336	0.09	0.20
Fruit Smoothies	1.5	0.01*	na	2.6	20	0.28*	0.52*
Vegetable Juices; Vegetable Purees	0.1	<0.01*	na	2.9	17	0.02*	0.04*
Vegetable Smoothies	0.2	<0.01*	na	0.3	2	0.27*	0.27*



**Table B-4 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Male Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup>
Potato Chips; Pretzels; Corn-Based Savory Snacks	1.0	<0.01	0.01	52.7	296	0.01	0.02
Popcorn	0.1	<0.01	na	9.5	46	0.01	0.01*
Chocolate, Nougat and Toffees, Gummies, and Soft Candy	0.5	<0.01	0.01	27.2	148	0.01	0.02
Soup (including prepared, canned, and dry mix)	3.2	0.02	0.06	15.7	107	0.10	0.23

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

\* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements.



**Table B-5 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Female Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
<b>All</b>	<b>100</b>	<b>0.38</b>	<b>0.72</b>	<b>100</b>	<b>2,372</b>	<b>0.38</b>	<b>0.72</b>
Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers	3.5	0.01	0.04	53.0	1,250	0.02	0.06
Biscuits; Cookies; French Toast, Pancakes, and Waffles	2.0	0.01	0.02	42.3	979	0.02	0.04
Bread, high protein	0.0	<0.01*	na	0.1	1	0.06*	0.06*
Bread, gluten free	0.0	<0.01*	na	0.2	4	0.01*	0.01*
Other breads (excluding sweet-type breads)	2.1	0.01	0.02	59.2	1,379	0.01	0.03
Doughnuts (Donuts); Muffins	0.3	<0.01	na	8.8	207	0.01	0.03
Energy Drinks	0.3	<0.01	na	1.3	31	0.09	0.16*
Sport or Electrolyte Drinks, Fluid Replacement Drinks	1.9	0.01	na	3.4	76	0.21	0.33*
Enhanced or Fortified Waters	0.9	<0.01	na	3.5	61	0.10	0.19*
Non-Milk-Based Meal Replacement Beverages	0.1	<0.01*	na	0.1	4	0.38*	0.50*
Protein Drinks	3.4	0.01	na	2.4	39	0.53	1.18*
Hot Breakfast Cereals (e.g., oatmeal, grits)	3.0	0.01	0.05	13.3	385	0.08	0.16
Ready-to-Eat Breakfast Cereals	3.5	0.01	0.05	31.0	707	0.04	0.08
Processed Cheese or Cheese Mixtures; Cream Cheese and Cheese-Based Spreads	0.6	<0.01	<0.01	11.5	212	0.02	0.04
Specialty Coffee Drinks (Lattes, Cappuccinos, Mochas)	4.8	0.02	na	6.6	161	0.27	0.48
Ready-to-Drink Tea Beverages; Instant Tea	15.1	0.06	0.10	11.2	269	0.51	0.89
Frostings, Icings, and Coatings	0.0	<0.01*	na	0.1	3	<0.01*	<0.01*
Non-Dairy Milk and Cream (including coffee whiteners, non-dairy creamers); Soy- and/or Rice-Based Beverages	5.5	0.02	0.04	34.5	757	0.06	0.16
Non-Dairy Dips	0.4	<0.01	na	3.8	58	0.04	0.09*
Non-Dairy Whipped Toppings	0.0	<0.01*	na	1.2	26	0.01*	0.02*
Non-Dairy Yogurt	0.1	<0.01*	na	0.1	2	0.49*	0.51*
Imitation Cheese	0.0	<0.01*	na	0	1	0.07	0.07*
Egg-Based Dishes	2.2	0.01	0.03	18.8	480	0.04	0.09
Egg Substitutes	0.3	<0.01*	na	0.9	13	0.12*	0.18*
Fat-Based Sauces	0.0	<0.01	na	3.1	62	<0.01	0.01*



**Table B-5 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Female Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Margarine, and Margarine-like Spreads	0.0	<0.01	<0.01	17.1	371	<0.01	<0.01
Mayonnaise and Mayonnaise-Type Dressings	0.7	<0.01	0.01	35.9	743	0.01	0.02
Salad Dressings	0.5	<0.01	0.01	26.6	547	0.01	0.02
Fish-Based Entrees	1.0	<0.01	na	6.6	166	0.06	0.13
Ice Cream; Frozen Yogurt (Frozen Yoghurt); Other Frozen Milk Desserts	5.2	0.02	0.07	24.6	531	0.08	0.18
Edible Ices, Sherbet, and Sorbet	0.0	<0.01	na	1.5	53	0.01	0.01*
Flans, Custards, and Other Egg-Based Desserts	0.0	<0.01*	na	<0.01	1	0.03*	0.03*
Puddings and Other Milk-Based Desserts	0.0	<0.01*	na	<0.01	2	0.09*	0.10*
Cereal and Granola Bars	1.3	<0.01	na	8.8	172	0.06	0.10
Energy Bars or Protein Bars; Meal Replacement Bars	1.0	<0.01	na	2.1	42	0.18	0.42*
Macaroni and Noodle Products, excluding gluten free	2.6	0.01	0.04	24.4	544	0.04	0.07
Macaroni and Noodle Products, gluten free	0.0	<0.01*	na	0	1	0.04*	0.04*
Tomato-Based Sauces	0.0	<0.01*	na	0.2	7	0.01*	0.02*
White Sauces	0.0	<0.01*	na	0.7	17	0.02*	0.03*
Meat-Based Entrees	6.6	0.02	0.09	29.0	686	0.08	0.17
Processed meat products	3.3	0.01	0.04	52.3	1,186	0.02	0.05
Evaporated, Condensed, and/or Dry Milks	0.1	<0.01	na	1.4	39	0.04	0.08*
Fermented Milks, Plain	0.1	<0.01*	na	0.2	6	0.14*	0.18*
Flavored Milk, Milk Drinks, and Mixes	0.5	<0.01	na	3.0	78	0.06	0.11*
Milk Shakes	0.3	<0.01*	na	0.5	16	0.27*	0.42*
Milk-Based Meal Replacements	4.5	0.02	na	4.3	78	0.40	0.88*
Plain or Flavored Yogurt (Yoghurt)	1.6	0.01	0.03	18.9	375	0.03	0.06
Nut Spreads	0.4	<0.01	<0.01	15.1	298	0.01	0.01
Meat Analogs	1.0	<0.01	na	2.6	67	0.15	0.32*
Poultry-Containing Entrees	2.1	0.01	0.02	11.7	238	0.07	0.13
Fruit Juices; Fruit Nectars; Fruit Drinks and Ades; Fruit-Based Desserts	7.2	0.03	0.08	40.4	1,029	0.07	0.14
Fruit Smoothies	2.9	0.01	na	5.9	122	0.19	0.28
Vegetable Juices; Vegetable Purees	0.7	<0.01	na	9.9	243	0.03	0.05
Vegetable Smoothies	1.3	<0.01	na	1.9	42	0.25	0.48*



**Table B-5 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Female Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Potato Chips; Pretzels; Corn-Based Savory Snacks	0.8	<0.01	0.01	44.0	893	0.01	0.01
Popcorn	0.1	<0.01	na	9.5	214	<0.01	0.01
Chocolate, Nougat and Toffees, Gummies, and Soft Candy	0.5	<0.01	0.01	32.9	705	0.01	0.01
Soup (including prepared, canned, and dry mix)	3.8	<0.01	0.05	22.7	581	0.06	0.12

bw= body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

\* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90<sup>th</sup> percentile n<80).



**Table B-6 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Male Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup>
<b>All</b>	<b>100</b>	<b>0.38</b>	<b>0.71</b>	<b>100</b>	<b>2,080</b>	<b>0.38</b>	<b>0.71</b>
Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers	3.9	0.02	0.04	53.9	1,039	0.03	0.06
Biscuits; Cookies; French Toast, Pancakes, and Waffles	1.9	0.01	0.02	41.2	835	0.02	0.04
Bread, high protein	0.0	<0.01*	na	0.1	1	0.08*	0.08*
Bread, gluten free	0.0	<0.01*	na	0.1	2	0.01*	0.01*
Other breads (excluding sweet-type breads)	2.0	0.01	0.02	60.5	1,270	0.01	0.03
Doughnuts (Donuts); Muffins	0.3	<0.01	na	7.4	173	0.01	0.03
Energy Drinks	0.9	<0.01	na	4.3	90	0.08	0.12
Sport or Electrolyte Drinks, Fluid Replacement Drinks	4.8	0.02	na	7.9	160	0.23	0.47
Enhanced or Fortified Waters	0.7	<0.01	na	2.6	48	0.11	0.18*
Non-Milk-Based Meal Replacement Beverages	0.2	<0.01*	na	0.1	3	0.63*	0.85*
Protein Drinks	7.0	0.03	na	2.3	37	1.15	3.91*
Hot Breakfast Cereals (e.g., oatmeal, grits)	2.8	0.01	0.02	10.4	291	0.10	0.23
Ready-to-Eat Breakfast Cereals	4.0	0.02	0.06	28.6	569	0.05	0.10
Processed Cheese or Cheese Mixtures; Cream Cheese and Cheese-Based Spreads	0.3	<0.01	na	7.3	130	0.02	0.03
Specialty Coffee Drinks (Lattes, Cappuccinos, Mochas)	2.6	0.01	na	4.3	106	0.23	0.36
Ready-to-Drink Tea Beverages; Instant Tea	14.1	0.05	0.12	11.4	248	0.47	0.86
Frostings, Icings, and Coatings	0.0	<0.01*	na	0.0	2	<0.01*	<0.01*
Non-Dairy Milk and Cream (including coffee whiteners, non-dairy creamers); Soy- and/or Rice-Based Beverages	2.9	0.01	0.02	22.5	523	0.05	0.16
Non-Dairy Dips	0.3	<0.01	na	2.2	31	0.04	0.08*
Non-Dairy Whipped Toppings	0.0	<0.01*	na	1.3	11	0.01*	0.03*
Non-Dairy Yogurt	0.0	0	0	0	0	0	0
Imitation Cheese	0.0	<0.01*	na	0.0	1	0.05*	0.05*
Egg-Based Dishes	2.6	0.01	0.04	19.2	411	0.05	0.09
Egg Substitutes	0.2	<0.01*	na	0.6	14	0.11*	0.20*
Fat-Based Sauces	0.0	<0.01	na	1.9	45	0.01	0.02*





**Table B-6 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Male Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Margarine, and Margarine-like Spreads	0.0	<0.01	<0.01	13.8	281	<0.01	<0.01
Mayonnaise and Mayonnaise-Type Dressings	0.5	<0.01	0.01	29.7	640	0.01	0.01
Salad Dressings	0.4	<0.01	0.01	19.2	364	0.01	0.02
Fish-Based Entrees	0.8	<0.01	na	5.2	108	0.06	0.13
Ice Cream; Frozen Yogurt (Frozen Yoghurt); Other Frozen Milk Desserts	5.3	0.02	0.08	23.9	439	0.09	0.16
Edible Ices, Sherbet, and Sorbet	0.0	<0.01	na	2.6	33	0.01	0.01*
Flans, Custards, and Other Egg-Based Desserts	0.0	0	0	0	0	0	0
Puddings and Other Milk-Based Desserts	0.0	0	0	0	0	0	0
Cereal and Granola Bars	1.1	<0.01	<0.01	10.2	153	0.04	0.08
Energy Bars or Protein Bars; Meal Replacement Bars	1.0	<0.01	na	2.6	40	0.15	0.26*
Macaroni and Noodle Products, excluding gluten free	2.6	0.01	0.04	20.2	409	0.05	0.10
Macaroni and Noodle Products, gluten free	0.0	<0.01*	na	0.1	1	0.02*	0.02*
Tomato-Based Sauces	0.0	<0.01*	na	<0.1	1	0.01*	0.01*
White Sauces	0.0	<0.01*	na	0.3	6	0.02*	0.03*
Meat-Based Entrees	8.2	0.03	0.12	31.3	657	0.10	0.20
Processed meat products	4.5	0.02	0.05	58.5	1,214	0.03	0.06
Evaporated, Condensed, and/or Dry Milks	0.1	<0.01*	na	0.7	24	0.06*	0.19*
Fermented Milks, Plain	0.0	0	0	0	0	0	0
Flavored Milk, Milk Drinks, and Mixes	0.5	<0.01	na	3.5	78	0.06	0.11*
Milk Shakes	0.2	<0.01*	na	0.5	10	0.19*	0.31*
Milk-Based Meal Replacements	4.1	0.02	na	3.2	64	0.50	1.28*
Plain or Flavored Yogurt (Yoghurt)	0.9	<0.01	0.01	11.1	201	0.03	0.05
Nut Spreads	0.4	<0.01	<0.01	13.9	238	0.01	0.02
Meat Analogs	0.8	<0.01	na	2.9	53	0.10	0.33*
Poultry-Containing Entrees	2.5	0.01	0.02	10.7	177	0.09	0.18
Fruit Juices; Fruit Nectars; Fruit Drinks and Ades; Fruit-Based Desserts	6.6	0.03	0.08	37.2	880	0.07	0.14
Fruit Smoothies	1.7	0.01	na	4.0	75	0.17	0.29*
Vegetable Juices; Vegetable Purees	0.8	<0.01	<0.01	10.3	199	0.03	0.05
Vegetable Smoothies	0.7	<0.01*	na	1.3	24	0.19*	0.31*



**Table B-6 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by Male Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Potato Chips; Pretzels; Corn-Based Savory Snacks	0.8	<0.01	0.01	43.1	821	0.01	0.01
Popcorn	0.1	<0.01	na	7.8	153	<0.01	0.01
Chocolate, Nougat and Toffees, Gummies, and Soft Candy	0.5	<0.01	0.01	28.1	540	0.01	0.02
Soup (including prepared, canned, and dry mix)	3.7	0.01	0.06	19.9	462	0.07	0.13

bw= body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

\* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90<sup>th</sup> percentile n<80).



**Table B-7 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by the Total U.S. Population (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
<b>All</b>	<b>100</b>	<b>0.46</b>	<b>0.96</b>	<b>99.0</b>	<b>7317</b>	<b>0.47</b>	<b>0.97</b>
Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers	3.9	0.02	0.05	53.4	3,839	0.03	0.08
Biscuits; Cookies; French Toast, Pancakes, and Waffles	2.3	0.01	0.03	44.6	3,345	0.02	0.06
Bread, high protein	0.0	<0.01*	na	0.1	2	0.07*	0.07*
Bread, gluten free	0.0	<0.01*	na	0.2	9	0.02*	0.05*
Other breads (excluding sweet-type breads)	2.0	0.01	0.03	58.1	4,186	0.02	0.03
Doughnuts (Donuts); Muffins	0.4	<0.01	na	9.3	728	0.02	0.04
Energy Drinks	0.4	<0.01	na	2.3	137	0.08	0.14
Sport or Electrolyte Drinks, Fluid Replacement Drinks	4.6	0.02	na	7.3	535	0.29	0.59
Enhanced or Fortified Waters	0.7	<0.01	na	2.8	164	0.11	0.19
Non-Milk-Based Meal Replacement Beverages	0.1	<0.01*	na	0.1	10	0.41*	0.57*
Protein Drinks	3.7	0.02	na	2.0	94	0.86	1.71
Hot Breakfast Cereals (e.g., oatmeal, grits)	2.7	0.01	0.02	10.8	936	0.12	0.26
Ready-to-Eat Breakfast Cereals	4.8	0.02	0.07	35.3	2,751	0.06	0.13
Processed Cheese or Cheese Mixtures; Cream Cheese and Cheese-Based Spreads	0.5	<0.01	na	9.2	548	0.03	0.05
Specialty Coffee Drinks (Lattes, Cappuccinos, Mochas)	2.6	0.01	na	4.7	344	0.26	0.47
Ready-to-Drink Tea Beverages; Instant Tea	11.0	0.05	0.09	10.7	774	0.48	0.88
Frostings, Icings, and Coatings	0.0	<0.01*	na	0.2	22	0.01*	0.01*
Non-Dairy Milk and Cream (including coffee whiteners, non-dairy creamers); Soy- and/or Rice-Based Beverages	3.9	0.02	0.02	22.5	1,431	0.08	0.18
Non-Dairy Dips	0.3	<0.01	na	2.5	119	0.05	0.12
Non-Dairy Whipped Toppings	0.0	<0.01	na	0.9	40	0.01	0.03*
Non-Dairy Yogurt	0.1	<0.01*	na	0.1	4	0.62*	0.72*
Imitation Cheese	0.0	<0.01*	na	0.0	3	0.07*	0.08*
Egg-Based Dishes	2.5	0.01	0.04	18.6	1,425	0.06	0.12
Egg Substitutes	0.2	<0.01	na	0.6	35	0.12	0.21*
Fat-Based Sauces	0.0	<0.01	na	2.0	127	0.01	0.02



**Table B-7 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by the Total U.S. Population (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Margarine, and Margarine-like Spreads	0.0	<0.01	na	13.5	833	<0.01	0.00
Mayonnaise and Mayonnaise-Type Dressings	0.5	<0.01	0.01	30.5	2,079	0.01	0.02
Salad Dressings	0.3	<0.01	0.01	19.3	1,120	0.01	0.02
Fish-Based Entrees	0.7	<0.01	na	5.1	350	0.06	0.13
Ice Cream; Frozen Yogurt (Frozen Yoghurt); Other Frozen Milk Desserts	5.6	0.03	0.09	24.6	1,650	0.11	0.22
Edible Ices, Sherbet, and Sorbet	0.1	<0.01	na	3.7	291	0.01	0.02
Flans, Custards, and Other Egg-Based Desserts	0.0	<0.01*	na	<0.1	1	0.03*	0.03*
Puddings and Other Milk-Based Desserts	0.0	<0.01*	na	<0.1	2	0.09*	0.10*
Cereal and Granola Bars	1.4	0.01	na	9.9	574	0.06	0.12
Energy Bars or Protein Bars; Meal Replacement Bars	0.8	<0.01	na	2.1	119	0.18	0.37
Macaroni and Noodle Products, excluding gluten free	3.1	0.01	0.05	24.2	1,836	0.06	0.12
Macaroni and Noodle Products, gluten free	0.0	<0.01*	na	<0.1	2	0.03*	0.03*
Tomato-Based Sauces	0.0	<0.01*	na	0.1	10	0.01*	0.02*
White Sauces	0.0	<0.01	na	0.5	49	0.02	0.04*
Meat-Based Entrees	6.8	0.03	0.11	28.9	2,096	0.11	0.23
Processed meat products	3.9	0.02	0.05	55.2	3,951	0.03	0.07
Evaporated, Condensed, and/or Dry Milks	0.2	<0.01	na	0.9	77	0.11	0.18*
Fermented Milks, Plain	0.0	<0.01*	na	0.1	7	0.14*	0.18*
Flavored Milk, Milk Drinks, and Mixes	1.9	0.01	na	8.2	809	0.11	0.22
Milk Shakes	0.3	<0.01	na	0.6	52	0.27	0.57*
Milk-Based Meal Replacements	3.3	0.02	na	3.2	174	0.49	1.20
Plain or Flavored Yogurt (Yoghurt)	1.5	0.01	0.02	15.6	1,026	0.04	0.09
Nut Spreads	0.4	<0.01	na	14.7	962	0.01	0.03
Meat Analogs	0.8	<0.01	na	2.4	160	0.16	0.34
Poultry-Containing Entrees	2.0	0.01	na	10.0	581	0.09	0.18
Fruit Juices; Fruit Nectars; Fruit Drinks and Ades; Fruit-Based Desserts	10.6	0.05	0.14	45.6	3,896	0.11	0.24
Fruit Smoothies	2.4	0.01	na	5.2	368	0.22	0.42
Vegetable Juices; Vegetable Purees	0.6	<0.01	na	8.5	596	0.03	0.06
Vegetable Smoothies	0.6	<0.01	na	1.3	86	0.23	0.47



**Table B-7 Estimated Daily Per Kilogram Body Weight Intake of Protein from Peazazz and Peazac from Individual Proposed Food-Uses by the Total U.S. Population (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/kg bw/day)		Consumer-Only Intake (g/kg bw/day)			
		Mean	90 <sup>th</sup> Percentile	%	n	Mean	90 <sup>th</sup> Percentile
Potato Chips; Pretzels; Corn-Based Savory Snacks	0.9	<0.01	0.01	45.6	3,219	0.01	0.02
Popcorn	0.1	<0.01	na	9.6	729	<0.01	0.01
Chocolate, Nougat and Toffees, Gummies, and Soft Candy	0.6	<0.01	0.01	31.3	2,183	0.01	0.02
Soup (including prepared, canned, and dry mix)	3.6	0.02	0.06	20.4	1,652	0.08	0.16

bw= body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

\* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90<sup>th</sup> percentile n<80).



## **Appendix C**

### **Representative Food Codes for Proposed Food-Uses of Peazazz and Peazac in the U.S. (2013-2014 NHANES Data)**



## Baked Goods and Baking Mixes

### Bagels and English Muffins; Cornbread, Corn Muffins, or Tortillas; Crackers [Peazazz and Peazac, as protein] = 4%

51180010	Bagel
51180030	Bagel, with raisins
51180080	Bagel, with fruit other than raisins
51186010	Muffin, English
51186100	Muffin, English, with raisins
51186130	Muffin, English, cheese
51186160	Muffin, English, with fruit other than raisins
51187000	Melba toast
51300100	Bagel, whole grain white
51301700	Bagel, wheat
51301750	Bagel, whole wheat
51301800	Bagel, wheat, with raisins
51301805	Bagel, whole wheat, with raisins
51301820	Bagel, wheat, with fruit and nuts
51301900	Bagel, wheat bran
51302500	Muffin, English, wheat bran
51302520	Muffin, English, wheat bran, with raisins
51303010	Muffin, English, wheat or cracked wheat
51303030	Muffin, English, whole wheat
51303050	Muffin, English, wheat or cracked wheat, with raisins
51303070	Muffin, English, whole wheat, with raisins
51303100	Muffin, English, whole grain white
51401200	Muffin, English, rye
51404500	Bagel, pumpernickel
51404550	Muffin, English, pumpernickel
51501080	Bagel, oat bran
51503000	Muffin, English, oat bran
51503040	Muffin, English, oat bran, with raisins
51630000	Bagel, multigrain
51630100	Bagel, multigrain, with raisins
51630200	Muffin, English, multigrain
52101040	Crumpet
52101050	Crumpet, toasted
52201000	Cornbread, prepared from mix
52202060	Cornbread, made from home recipe
52204000	Cornbread stuffing
52206010	Cornbread muffin, stick, round
52206060	Cornbread muffin, stick, round, made from home recipe
52207010	Corn flour patty or tart, fried
52208010	Corn pone, baked
52208020	Corn pone, fried
52208760	Gordita/sope shell, plain, no filling
52215000	Tortilla, NFS
52215100	Tortilla, corn
52215200	Tortilla, flour (wheat)
52215260	Tortilla, whole wheat
52215300	Taco shell, corn



52215350	Taco shell, flour
52220110	Cornmeal bread, Dominican style (Arepa Dominicana)
54001000	Crackers, NS as to sweet or nonsweet
54102010	Crackers, graham
54102020	Crackers, graham, chocolate covered
54102050	Crackers, oatmeal
54102060	Crackers, Cuban
54102070	Crackers, Cuca
54102080	Crackers, graham, with raisins
54102100	Crackers, graham, lowfat
54102110	Crackers, graham, fat free
54102200	Crackers, graham, sandwich-type, with filling
54201010	Crackers, matzo, low sodium
54202010	Crackers, saltine, low sodium
54203010	Crackers, toast thins (rye, wheat, white flour), low sodium
54204010	Cracker, 100% whole wheat, low sodium
54205010	Cracker, snack, low sodium
54205100	Cracker, snack, reduced fat, reduced sodium
54206010	Puffed rice cake without salt
54210010	Cracker, multigrain, low sodium
54301000	Cracker, snack
54301100	Cracker, snack, reduced fat
54301200	Cracker, snack, fat free
54304000	Cracker, cheese
54304100	Cracker, cheese, reduced fat
54304150	Cracker, cheese, whole grain
54304500	Cracker, high fiber, no added fat
54305000	Crispbread, wheat, no added fat
54307000	Crackers, matzo
54308000	Crackers, milk
54309000	Crackers, oat
54313000	Crackers, oyster
54318000	Chips, brown rice
54318500	Rice cake, cracker-type
54319000	Crackers, rice
54319010	Puffed rice cake
54319020	Popcorn cake
54319200	Puffed wheat cake
54319500	Rice paper
54322000	Crispbread, rye, no added fat
54325000	Crackers, saltine
54325010	Crackers, saltine, fat free
54325050	Crackers, saltine, whole wheat
54326000	Crackers, multigrain, made with whole wheat, wheat, oat, and other flours
54327950	Crackers, cylindrical, peanut-butter filled
54328000	Crackers, sandwich-type, NFS
54328100	Cracker, sandwich-type, peanut butter filled
54328110	Cracker, sandwich-type, peanut butter filled, reduced fat
54328120	Cracker, sandwich-type, peanut butter filled, whole grain
54328200	Cracker, sandwich-type, cheese-filled
54334000	Crackers, toast thins (rye, pumpernickel, white flour)
54336000	Crackers, water biscuits





54337000 Cracker, 100% whole wheat  
54337050 Cracker, 100% whole wheat, reduced fat  
54338000 Crackers, wheat  
54338100 Crackers, wheat, reduced fat  
54339000 Crackers, corn  
54340100 Cracker, gluten free

**Mixture containing bagels, English muffins, cornbread, corn muffins, tortillas, or crackers**

(Adjusted for a bagel, English muffin, cornbread, corn muffin, tortilla, or cracker content of 31 to 79%)

**[Peazz and Pezac, as protein] = 1.24 to 3.16%**

58103200 Tamale, plain, meatless, no sauce, Puerto Rican style or Carribean Style  
58103250 Tamale, plain, meatless, no sauce, Mexican style  
58104800 Taquito or flauta with cheese  
58104825 Taquito or flauta with meat and cheese  
58104835 Taquito or flauta with chicken and cheese  
58105100 Pupusa, cheese-filled  
58105105 Pupusa, bean-filled  
58105110 Pupusa, meat-filled  
58104710 Quesadilla, just cheese, meatless  
58104730 Quesadilla with meat  
58104740 Quesadilla with chicken  
58104760 Quesadilla with vegetables and meat  
58104770 Quesadilla with vegetables and chicken  
58104750 Quesadilla with vegetables  
58103310 Tamale casserole with meat  
58104820 Taquito or flauta with meat  
58104830 Taquito or flauta with chicken  
58104900 Taquito or flauta with egg  
58128110 Chicken cornbread  
58104905 Taquito or flauta with egg and breakfast meat  
58103210 Tamale, meatless, with sauce, Puerto Rican or Caribbean style  
58104535 Chimichanga with meat and sour cream  
58103120 Tamale with meat  
58103130 Tamale with chicken  
58104530 Chimichanga with chicken  
58104500 Chimichanga with meat  
58101450 Soft taco with chicken  
58101555 Soft taco with fish  
32202010 Egg, cheese, and ham on English muffin  
32202030 Egg, cheese, and sausage on English muffin  
32202040 Egg, cheese, and beef on English Muffin  
58104550 Chimichanga with chicken and sour cream  
32202045 Egg, cheese, and steak on bagel  
32202080 Egg, cheese, and bacon on English muffin  
32202085 Egg, cheese and bacon on bagel  
32202120 Egg, cheese and sausage on bagel  
58104520 Chimichanga, meatless  
58100000 Burrito, taco, or quesadilla with egg  
58306500 Chicken burritos (diet frozen meal)  
58104540 Chimichanga, meatless, with sour cream  
58101460 Soft taco with chicken and sour cream



58100370 Chilaquiles, tortilla casserole with salsa and cheese, no egg  
58101625 Soft taco with chicken and beans  
58100010 Burrito, taco, or quesadilla with egg and breakfast meat  
58100200 Burrito with chicken  
58100005 Burrito, taco, or quesadilla with egg and potato  
58101345 Soft taco with meat

**Mixture containing bagels, English muffins, cornbread, corn muffins, tortillas, or crackers**

(Adjusted for a bagel, English muffin, cornbread, corn muffin, tortilla, or cracker content of 5.1 to 29.8%)

**[Peazz and Peazac, as protein] = 0.20 to 1.19%**

58306200 Chicken fajitas (diet frozen meal)  
58101620 Soft taco with meat and beans  
58101520 Taco or tostada with chicken  
58101540 Taco or tostada with fish  
58115110 Tamale casserole, Puerto Rican style (Tamales en cazuela)  
58101635 Soft taco with chicken, beans, and sour cream  
58100220 Burrito with chicken and beans  
58100360 Chilaquiles, tortilla casserole with salsa, cheese, and egg  
58100015 Burrito, taco, or quesadilla with egg, potato, and breakfast meat  
58101350 Soft taco with meat and sour cream  
58101610 Soft taco with beans  
58100020 Burrito, taco, or quesadilla with egg, beans, and breakfast meat  
58100100 Burrito with meat  
58100235 Burrito with chicken and sour cream  
58100255 Burrito with chicken, beans, and rice  
58101630 Soft taco with meat, beans, and sour cream  
58100120 Burrito with meat and beans  
58115150 Tamal in a leaf, Puerto Rican style (Tamales en hoja)  
58100320 Burrito with beans, meatless  
58101615 Soft taco with beans and sour cream  
58100160 Burrito with meat, beans, and rice  
58101525 Taco or tostada with chicken and sour cream  
58100245 Burrito with chicken, beans, and sour cream  
58100300 Burrito with beans and rice, meatless  
58101800 Ground beef with tomato sauce and taco seasonings on a cornbread crust  
58101940 Taco or tostada salad, meatless  
58100135 Burrito with meat and sour cream  
58101735 Taco or tostada with chicken and beans  
58101930 Taco or tostada salad with meat  
58105000 Fajita with chicken and vegetables  
58105050 Fajita with meat and vegetables  
58100260 Burrito with chicken, beans, rice, and sour cream  
58101935 Taco or tostada salad with chicken  
58100140 Burrito with meat, beans, and sour cream  
58101320 Taco or tostada with meat  
58105075 Fajita with vegetables  
58115210 Taco with crab meat, Puerto Rican style (Taco de jueye)  
58100165 Burrito with meat, beans, rice, and sour cream  
58100330 Burrito with beans, rice, and sour cream, meatless  
58101730 Taco or tostada with meat and beans  
58200250 Wrap sandwich, filled with vegetables



58101955	Taco or tostada salad, meatless with sour cream
58306070	Cheese enchilada (frozen meal)
58101945	Taco or tostada salad with meat and sour cream
58101750	Taco or tostada with chicken, beans, and sour cream
58101950	Taco or tostada salad with chicken and sour cream
58101325	Taco or tostada with meat and sour cream
58101720	Taco or tostada with beans
58101745	Taco or tostada with meat, beans, and sour cream
58100805	Enchilada, just cheese, meatless, no beans, green-chile or enchilada sauce
58101725	Taco or tostada with beans and sour cream
58100535	Enchilada with meat, green-chile or enchilada sauce
58100635	Enchilada with chicken, green-chile or enchilada sauce
58100800	Enchilada, just cheese, meatless, no beans, red-chile or enchilada sauce
58100530	Enchilada with meat, red-chile or enchilada sauce
58100630	Enchilada with chicken, red-chile or enchilada sauce
58100525	Enchilada with meat and beans, green-chile or enchilada sauce
58100625	Enchilada with chicken and beans, green-chile or enchilada sauce
58100520	Enchilada with meat and beans, red-chile or enchilada sauce
58100620	Enchilada with chicken and beans, red-chile or enchilada sauce
58100725	Enchilada with beans, green-chile or enchilada sauce
58100720	Enchilada with beans, meatless, red-chile or enchilada sauce
58200200	Wrap sandwich, filled with vegetables and rice
58306100	Chicken enchilada (diet frozen meal)
58200300	Wrap sandwich, filled with meat, poultry, or fish, vegetables, rice, and cheese
58200100	Wrap sandwich, filled with meat, poultry, or fish, vegetables, and rice
58306010	Beef enchilada dinner, NFS (frozen meal)
58306020	Beef enchilada, chili gravy, rice, refried beans (frozen meal)
58306020	Beef enchilada, chili gravy, rice, refried beans (frozen meal)

**Biscuits; Cookies; French Toast, Pancakes, and Waffles**

**[Peazazz and Peazac, as protein] = 3%**

27540145	Chicken fillet (breaded, fried) sandwich on biscuit
27540180	Chicken patty sandwich or biscuit
27560650	Sausage on biscuit
32202050	Egg, cheese, and sausage on biscuit
32202060	Egg and sausage on biscuit
32202070	Egg, cheese, and bacon on biscuit
32202090	Egg and bacon on biscuit
32202110	Egg and ham on biscuit
52101000	Biscuit, baking powder or buttermilk type, NS as to made from mix, refrigerated dough, or home recipe
52101030	Biscuit dough, fried
52101100	Biscuit, baking powder or buttermilk type, made from mix
52101150	Biscuit, baking powder or buttermilk type, made from refrigerated dough, lowfat
52102040	Biscuit, baking powder or buttermilk type, made from refrigerated dough
52103000	Biscuit, baking powder or buttermilk type, commercially baked
52104010	Biscuit, baking powder or buttermilk type, made from home recipe
52104040	Biscuit, whole wheat
52104100	Biscuit, cheese
52104200	Biscuit, cinnamon-raisin
52105100	Scone



52105200	Scone, with fruit
53201000	Cookie, NFS
53202000	Cookie, almond
53203000	Cookie, applesauce
53203500	Cookie, biscotti (Italian sugar cookie)
53204000	Cookie, brownie, NS as to icing
53204010	Cookie, brownie, without icing
53204100	Cookie, brownie, with icing or filling
53204840	Cookie, brownie, reduced fat, NS as to icing
53204860	Cookie, brownie, fat free, NS as to icing
53205250	Cookie, butterscotch, brownie
53205260	Cookie, bar, with chocolate
53206000	Cookie, chocolate chip
53206020	Cookie, chocolate chip, made from home recipe or purchased at a bakery
53206030	Cookie, chocolate chip, reduced fat
53206100	Cookie, chocolate chip sandwich
53206500	Cookie, chocolate, made with rice cereal
53206550	Cookie, chocolate, made with oatmeal and coconut (no-bake)
53207000	Cookie, chocolate or fudge
53207020	Cookie, chocolate or fudge, reduced fat
53207050	Cookie, chocolate, with chocolate filling or coating, fat free
53208000	Cookie, marshmallow, chocolate-covered
53208200	Cookie, marshmallow pie, chocolate covered
53209005	Cookie, chocolate, with icing or coating
53209010	Cookie, sugar wafer, chocolate-covered
53209015	Cookie, chocolate sandwich
53209020	Cookie, chocolate sandwich, reduced fat
53209100	Cookie, chocolate, sandwich, with extra filling
53209500	Cookie, chocolate and vanilla sandwich
53210000	Cookie, chocolate wafer
53210900	Cookie, graham cracker with chocolate and marshmallow
53211000	Cookie bar, with chocolate, nuts, and graham crackers
53215500	Cookie, coconut
53220000	Cookie, fruit-filled bar
53220010	Cookie, fruit-filled bar, fat free
53220030	Cookie, fig bar
53220040	Cookie, fig bar, fat free
53222010	Cookie, fortune
53222020	Cookie, cone shell, ice cream type, wafer or cake
53223000	Cookie, gingersnaps
53223100	Cookie, granola
53224000	Cookie, ladyfinger
53224250	Cookie, lemon bar
53225000	Cookie, macaroon
53226000	Cookie, marshmallow, with coconut
53226500	Cookie, marshmallow, with rice cereal (no-bake)
53226550	Cookie, marshmallow, with rice cereal and chocolate chips
53226600	Cookie, marshmallow and peanut butter, with oat cereal (no-bake)
53228000	Cookie, meringue
53230000	Cookie, molasses
53231000	Cookie, Lebkuchen
53231400	Cookie, multigrain, high fiber



53233000	Cookie, oatmeal
53233010	Cookie, oatmeal, with raisins
53233040	Cookie, oatmeal, reduced fat, NS as to raisins
53233050	Cookie, oatmeal sandwich, with creme filling
53233060	Cookie, oatmeal, with chocolate chips
53233080	Cookie, oatmeal sandwich, with peanut butter and jelly filling
53233100	Cookie, oatmeal, with chocolate and peanut butter (no-bake)
53234000	Cookie, peanut butter
53234100	Cookie, peanut butter, with chocolate
53234250	Cookie, peanut butter with rice cereal (no-bake)
53235000	Cookie, peanut butter sandwich
53235500	Cookie, with peanut butter filling, chocolate-coated
53235600	Cookie, Pfeffernusse
53236000	Cookie, pizzelle (Italian style wafer)
53236100	Cookie, pumpkin
53237000	Cookie, raisin
53237010	Cookie, raisin sandwich, cream-filled
53237500	Cookie, rum ball (no-bake)
53238000	Cookie, sandwich-type, not chocolate or vanilla
53239000	Cookie, shortbread
53239010	Cookie, shortbread, reduced fat
53239050	Cookie, shortbread, with icing or filling
53240000	Cookie, animal
53240010	Cookie, animal, with frosting or icing
53241500	Cookie, butter or sugar
53241510	Marie biscuit
53242000	Cookie, sugar wafer
53242500	Cookie, toffee bar
53243000	Cookie, vanilla sandwich
53243010	Cookie, vanilla sandwich, extra filling
53243050	Cookie, vanilla sandwich, reduced fat
53244010	Cookie, butter or sugar, with chocolate icing or filling
53244020	Cookie, butter or sugar, with icing or filling other than chocolate
53246000	Cookie, tea, Japanese
53247000	Cookie, vanilla wafer
53247050	Cookie, vanilla wafer, reduced fat
53247500	Cookie, vanilla with caramel, coconut, and chocolate coating
53251100	Cookie, rugelach
53260030	Cookie, chocolate chip, sugar free
53260200	Cookie, oatmeal, sugar free
53260300	Cookie, sandwich, sugar free
53260400	Cookie, sugar or plain, sugar free
53260500	Cookie, sugar wafer, sugar free
53260600	Cookie, peanut butter, sugar free
53261000	Cookie, gluten free
53270100	Cookies, Puerto Rican (Mantecaditos polvorones)
53344300	Dessert pizza
53430000	Crepe, dessert type, NS as to filling
53430100	Crepe, dessert type, chocolate-filled
53430200	Crepe, dessert type, fruit-filled
53430250	Crepe suzette
53430300	Crepe, dessert type, ice cream-filled



55101000	Pancakes, plain
55101010	Pancakes, reduced calorie, high fiber
55101015	Pancakes, plain, reduced fat
55101020	Pancakes, plain, fat free
55103100	Pancakes, with chocolate chips
55105000	Pancakes, buckwheat
55105100	Pancakes, cornmeal
55105200	Pancakes, whole wheat
55105205	Pancakes, whole wheat, reduced fat
55105210	Pancakes, whole wheat, fat free
55105300	Pancakes, sour dough
55105400	Pancakes, rye
55106000	Pancakes, gluten free
55201000	Waffle, plain
55202000	Waffle, wheat, bran, or multigrain
55203500	Waffle, nut and honey
55203600	Waffle, chocolate chip
55204000	Waffle, cornmeal
55205000	Waffle, whole wheat or whole grain
55206000	Waffle, oat bran
55207000	Waffle, multi-bran
55208000	Waffle, gluten free
55211000	Waffle, plain, fat free
55211050	Waffle, plain, lowfat
55212000	Waffle, whole wheat, lowfat
55301000	French toast, plain
55301050	French toast sticks, plain
55401000	Crepe, plain
55501000	Flour and water patty
58128000	Biscuit with gravy

**Mixture containing biscuits, cookies, French toast, pancakes, or waffles**

(Adjusted for a biscuit, cookie, French toast, pancake, or waffle content of 51.4 to 88.5%)

**[Peazz and Pezac, as protein] = 1.54 to 2.66%**

32202020	Egg, cheese, and ham on biscuit
55103000	Pancakes, with fruit
53241600	Cookie, butter or sugar, with fruit and/or nuts
55203000	Waffle, fruit
32202130	Egg and steak on biscuit
32202200	Egg and cheese on biscuit

**Bread, high protein**

**[Peazz and Pezac, as protein] = 15%**

51123010	Bread, high protein
51123020	Bread, high protein, toasted

**Bread, gluten free**

**[Peazz and Pezac, as protein] = 4%**

51808000	Bread, gluten free
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51808010 Bread, gluten free, toasted

**Other Breads (excluding sweet-type breads)**

**[Peazazz and Peazac, as protein] = 2%**

51101000 Bread, white  
51101010 Bread, white, toasted  
51101050 Bread, white, made from home recipe or purchased at a bakery  
51101060 Bread, white, made from home recipe or purchased at a bakery, toasted  
51102010 Bread, white with whole wheat swirl  
51102020 Bread, white with whole wheat swirl, toasted  
51105010 Bread, Cuban  
51105040 Bread, Cuban, toasted  
51106010 Bread, Native, water, Puerto Rican style (Pan Criollo)  
51106020 Bread, Native, water, Puerto Rican style, toasted (Pan Criollo)  
51106200 Bread, lard, Puerto Rican style (Pan de manteca)  
51106210 Bread, lard, Puerto Rican style, toasted (Pan de manteca)  
51106300 Bread, caressed, Puerto Rican style (Pan sobao)  
51106310 Bread, caressed, Puerto Rican style, toasted (Pan sobao)  
51107010 Bread, French or Vienna  
51107040 Bread, French or Vienna, toasted  
51108010 Focaccia, Italian flatbread, plain  
51108100 Naan, Indian flatbread  
51109010 Bread, Italian, Grecian, Armenian  
51109040 Bread, Italian, Grecian, Armenian, toasted  
51109100 Bread, pita  
51109110 Bread, pita, toasted  
51109150 Bread, pita with fruit  
51109200 Bread, pita with fruit, toasted  
51111010 Bread, cheese  
51111040 Bread, cheese, toasted  
51113010 Bread, cinnamon  
51113100 Bread, cinnamon, toasted  
51115010 Bread, cornmeal and molasses  
51115020 Bread, cornmeal and molasses, toasted  
51119010 Bread, egg, Challah  
51119040 Bread, egg, Challah, toasted  
51121010 Bread, garlic  
51121110 Bread, onion  
51121120 Bread, onion, toasted  
51122000 Bread, reduced calorie and/or high fiber, white or NFS  
51122010 Bread, reduced calorie and/or high fiber, white or NFS, toasted  
51122100 Bread, reduced calorie and/or high fiber, white or NFS, with fruit and/or nuts  
51122110 Bread, reduced calorie and/or high fiber, white or NFS, with fruit and/or nuts, toasted  
51122300 Bread, white, special formula, added fiber  
51122310 Bread, white, special formula, added fiber, toasted  
51127010 Bread, potato  
51127020 Bread, potato, toasted  
51129010 Bread, raisin  
51129020 Bread, raisin, toasted  
51130510 Bread, white, low sodium or no salt  
51130520 Bread, white, low sodium or no salt, toasted



51133010	Bread, sour dough
51133020	Bread, sour dough, toasted
51134000	Bread, sweet potato
51134010	Bread, sweet potato, toasted
51135000	Bread, vegetable
51135010	Bread, vegetable, toasted
51136000	Bruschetta
51140100	Bread, dough, fried
51167000	Brioche
51168000	Bread, Spanish coffee
51187020	Anisette toast
51188500	Zwieback toast
51300050	Bread, whole grain white
51300060	Bread, whole grain white, toasted
51300110	Bread, whole wheat
51300120	Bread, whole wheat, toasted
51300140	Bread, whole wheat, made from home recipe or purchased at bakery
51300150	Bread, whole wheat, made from home recipe or purchased at bakery, toasted
51300175	Bread, chappatti or roti (Indian bread), wheat
51300180	Bread, puri or poori (Indian puffed bread), wheat
51300185	Bread, paratha, (Indian flat bread), wheat
51300210	Bread, whole wheat, with raisins
51300220	Bread, whole wheat, with raisins, toasted
51300300	Bread, sprouted wheat
51300310	Bread, sprouted wheat, toasted
51301010	Bread, wheat or cracked wheat
51301020	Bread, wheat or cracked wheat, toasted
51301040	Bread, wheat or cracked wheat, made from home recipe or purchased at bakery
51301050	Bread, wheat or cracked wheat, made from home recipe or purchased at bakery, toasted
51301120	Bread, wheat or cracked wheat, with raisins
51301130	Bread, wheat or cracked wheat, with raisins, toasted
51301510	Bread, wheat or cracked wheat, reduced calorie and/or high fiber
51301520	Bread, wheat or cracked wheat, reduced calorie and/or high fiber, toasted
51301540	Bread, French or Vienna, whole wheat
51301550	Bread, French or Vienna, whole wheat, toasted
51301600	Bread, pita, whole wheat
51301610	Bread, pita, whole wheat, toasted
51301620	Bread, pita, wheat or cracked wheat
51301630	Bread, pita, wheat or cracked wheat, toasted
51306000	Bread stick, hard, whole wheat
51401010	Bread, rye
51401020	Bread, rye, toasted
51401030	Bread, marble rye and pumpernickel
51401040	Bread, marble rye and pumpernickel, toasted
51401060	Bread, rye, reduced calorie and/or high fiber
51401070	Bread, rye, reduced calorie and/or high fiber, toasted
51404010	Bread, pumpernickel
51404020	Bread, pumpernickel, toasted
51407010	Bread, black
51407020	Bread, black, toasted
51501010	Bread, oatmeal
51501020	Bread, oatmeal, toasted





51501040	Bread, oat bran
51501050	Bread, oat bran, toasted
51501060	Bread, oat bran, reduced calorie and/or high fiber
51501070	Bread, oat bran, reduced calorie and/or high fiber, toasted
51601010	Bread, multigrain, toasted
51601020	Bread, multigrain
51601210	Bread, multigrain, with raisins
51601220	Bread, multigrain, with raisins, toasted
51602010	Bread, multigrain, reduced calorie and/or high fiber
51602020	Bread, multigrain, reduced calorie and/or high fiber, toasted
51801010	Bread, barley
51801020	Bread, barley, toasted
51804010	Bread, soy
51804020	Bread, soy, toasted
51805010	Bread, sunflower meal
51805020	Bread, sunflower meal, toasted
51806010	Bread, rice
51806020	Bread, rice, toasted
51807000	Injera (American-style Ethiopian bread)
52401000	Bread, Boston Brown
52403000	Bread, nut
52404060	Bread, pumpkin
52405010	Bread, fruit
52407000	Bread, zucchini
52408000	Bread, Irish soda

#### **Donuts and Muffins**

**[Peazazz and Peazac, as protein] = 2%**

52301000	Muffin, NFS
52302010	Muffin, fruit
52302020	Muffin, fruit, low fat
52302500	Muffin, chocolate chip
52302600	Muffin, chocolate
52303010	Muffin, whole wheat
52303500	Muffin, wheat
52304000	Muffin, whole grain
52304010	Muffin, wheat bran
52304040	Muffin, bran with fruit, lowfat
52304100	Muffin, oatmeal
52304150	Muffin, oat bran
52306010	Muffin, plain
52306300	Muffin, cheese
52306500	Muffin, pumpkin
52306550	Muffin, zucchini
52306700	Muffin, carrot
53520000	Doughnut, NS as to cake or yeast
53520110	Doughnut, cake type
53520120	Doughnut, chocolate, cake type
53520140	Doughnut, cake type, chocolate covered
53520150	Doughnut, cake type, chocolate covered, dipped in peanuts
53520160	Doughnut, chocolate, cake type, with chocolate icing



53520200	Churros
53520500	Doughnut, Asian
53520600	Cruller, NFS
53520700	French cruller
53521100	Doughnut, chocolate, raised or yeast, with chocolate icing
53521110	Doughnut, raised or yeast
53521120	Doughnut, chocolate, raised or yeast
53521130	Doughnut, raised or yeast, chocolate covered
53521140	Doughnut, jelly
53521210	Doughnut, custard-filled
53521220	Doughnut, chocolate cream-filled
53521230	Doughnut, custard-filled, with icing

### **Beverages and Beverage Bases (including powder and all other forms)**

#### **Energy Drinks**

**[Peazazz and Peazac, as protein] = 2%**

95310200	Full Throttle Energy Drink
95310400	Monster Energy Drink
95310500	Mountain Dew AMP Energy Drink
95310550	No Fear Energy Drink
95310555	No Fear Motherload Energy Drink
95310560	NOS Energy Drink
95310600	Red Bull Energy Drink
95310700	Rockstar Energy Drink
95310750	SoBe Energize Energy Juice Drink
95310800	Vault Energy Drink
95311000	Energy Drink
95312400	Monster Energy Drink, Lo Carb
95312500	Mountain Dew AMP Energy Drink, sugar-free
95312550	No Fear Energy Drink, sugar-free
95312555	NOS Energy Drink, sugar-free
95312560	Ocean Spray Cran-Energy Cranberry Energy Juice Drink
95312600	Red Bull Energy Drink, sugar-free
95312700	Rockstar Energy Drink, sugar-free
95312800	Vault Zero Energy Drink
95312900	XS Energy Drink
95312905	XS Gold Plus Energy Drink
95313200	Energy drink, sugar free

#### **Sport or Electrolyte Drinks, Fluid Replacement Drinks**

**[Peazazz and Peazac, as protein] = 4%**

95320200	Gatorade G sports drink
95320500	Powerade sports drink
95321000	Sports drink, NFS
95322200	Gatorade G2 sports drink, low calorie
95322500	Powerade Zero sports drink, low calorie
95323000	Sports drink, low calorie
95330100	Fluid replacement, electrolyte solution
95330500	Fluid replacement, 5% glucose in water



95341000 FUZE Slenderize fortified low calorie fruit juice beverage  
95342000 MonaVie acai blend beverage

Adjusted for a reconstitution factor of 16.625

**[Peazazz and Peazac, as protein] = 66.5%**

92900300 Sports drink, dry concentrate, not reconstituted

**Enhanced or Fortified Waters**

**[Peazazz and Peazac, as protein] = 2%**

94100200 Water, bottled, sweetened, with low calorie sweetener  
94100300 Capri Sun Roarin' Waters  
94210100 Propel Water  
94210200 Glaceau Vitamin Water  
94210300 SoBe Life Water  
94220100 Propel Zero Water  
94220110 Propel Zero Calcium Water  
94220215 Glaceau Vitamin Water Zero  
94220310 SoBe Life Water Zero

**Non-Milk-Based Meal Replacement Beverages**

**[Peazazz and Peazac, as protein] = 20%**

Adjusted for a reconstitution factor of 7

**[Peazazz and Peazac, as protein] = 140%**

95201500 Herbalife, nutritional shake mix, high protein, powder

**Protein Drinks**

**[Peazazz and Peazac, as protein] = 20%**

Adjusted for a reconstitution factor of 7

**[Peazazz and Peazac, as protein] = 140%**

95201200 EAS Whey Protein Powder  
95201300 EAS Soy Protein Powder  
95201600 Isopure protein powder  
95201700 Kellogg's Special K20 Protein Water Mix  
95230000 Protein powder, whey based, NFS  
95230010 Protein powder, soy based, NFS  
95230020 Protein powder, light, NFS  
95230030 Protein powder, NFS

**Breakfast Cereals**

**Hot Breakfast Cereals**

**[Peazazz and Peazac, as protein] = 4%**

56200300 Cereal, cooked, NFS  
56200350 Cereal, cooked, instant, NS as to grain  
56200390 Barley, cooked, NS as to fat added in cooking



56200400	Barley, cooked, fat not added in cooking
56200490	Buckwheat groats, cooked, NS as to fat added in cooking
56200500	Buckwheat groats, cooked, fat not added in cooking
56200510	Buckwheat groats, cooked, fat added in cooking
56200990	Grits, cooked, corn or hominy, NS as to regular, quick, or instant, NS as to fat added in cooking
56201000	Grits, cooked, corn or hominy, NS as to regular, quick, or instant, fat not added in cooking
56201010	Grits, cooked, corn or hominy, regular, fat not added in cooking
56201020	Grits, cooked, corn or hominy, regular, fat added in cooking
56201030	Grits, cooked, corn or hominy, regular, NS as to fat added in cooking
56201040	Grits, cooked, corn or hominy, NS as to regular, quick, or instant, fat added in cooking
56201060	Grits, cooked, corn or hominy, with cheese, NS as to regular, quick, or instant, NS as to fat added in cooking
56201061	Grits, cooked, corn or hominy, with cheese, NS as to regular, quick, or instant, fat not added in cooking
56201062	Grits, cooked, corn or hominy, with cheese, NS as to regular, quick, or instant, fat added in cooking
56201070	Grits, cooked, corn or hominy, with cheese, regular, NS as to fat added in cooking
56201071	Grits, cooked, corn or hominy, with cheese, regular, fat not added in cooking
56201072	Grits, cooked, corn or hominy, with cheese, regular, fat added in cooking
56201080	Grits, cooked, corn or hominy, with cheese, quick, NS as to fat added in cooking
56201081	Grits, cooked, corn or hominy, with cheese, quick, fat not added in cooking
56201082	Grits, cooked, corn or hominy, with cheese, quick, fat added in cooking
56201090	Grits, cooked, corn or hominy, with cheese, instant, NS as to fat added in cooking
56201091	Grits, cooked, corn or hominy, with cheese, instant, fat not added in cooking
56201092	Grits, cooked, corn or hominy, with cheese, instant, fat added in cooking
56201110	Grits, cooked, corn or hominy, quick, fat not added in cooking
56201120	Grits, cooked, corn or hominy, quick, fat added in cooking
56201130	Grits, cooked, corn or hominy, quick, NS as to fat added in cooking
56201210	Grits, cooked, corn or hominy, instant, fat not added in cooking
56201220	Grits, cooked, corn or hominy, instant, fat added in cooking
56201230	Grits, cooked, corn or hominy, instant, NS as to fat added in cooking
56201240	Grits, cooked, flavored, corn or hominy, instant, fat not added in cooking
56201250	Grits, cooked, flavored, corn or hominy, instant, fat added in cooking
56201260	Grits, cooked, flavored, corn or hominy, instant, NS as to fat added in cooking
56201296	Grits, cooked, corn or hominy, NS as to regular, quick, or instant, made with milk, fat added in cooking
56201298	Grits, cooked, corn or hominy, NS as to regular, quick, or instant, made with milk, fat not added in cooking
56201300	Grits, cooked, corn or hominy, NS as to regular, quick, or instant, made with milk, NS as to fat added in cooking
56201320	Grits, cooked, corn or hominy, regular, made with milk, fat added in cooking
56201322	Grits, cooked, corn or hominy, regular, made with milk, fat not added in cooking
56201324	Grits, cooked, corn or hominy, regular, made with milk, NS as to fat added in cooking
56201330	Grits, cooked, corn or hominy, quick, made with milk, fat added in cooking
56201332	Grits, cooked, corn or hominy, quick, made with milk, fat not added in cooking
56201334	Grits, cooked, corn or hominy, quick, made with milk, NS as to fat added in cooking
56201340	Grits, cooked, corn or hominy, instant, made with milk, fat added in cooking
56201342	Grits, cooked, corn or hominy, instant, made with milk, fat not added in cooking
56201344	Grits, cooked, corn or hominy, instant, made with milk, NS as to fat added in cooking
56201510	Cornmeal mush, made with water
56201520	Cornmeal mush, fried
56201530	Cornmeal mush, made with milk
56201540	Cornmeal, made with milk and sugar, Puerto Rican Style (Harina de maiz)



56202960	Oatmeal, cooked, NS as to regular, quick or instant; NS as to fat added in cooking
56202970	Oatmeal, cooked, quick (1 or 3 minutes), NS as to fat added in cooking
56202980	Oatmeal, cooked, regular, NS as to fat added in cooking
56203000	Oatmeal, cooked, NS as to regular, quick or instant, fat not added in cooking
56203010	Oatmeal, cooked, regular, fat not added in cooking
56203020	Oatmeal, cooked, quick (1 or 3 minutes), fat not added in cooking
56203030	Oatmeal, cooked, instant, fat not added in cooking
56203040	Oatmeal, cooked, NS as to regular, quick, or instant, fat added in cooking
56203050	Oatmeal, cooked, regular, fat added in cooking
56203060	Oatmeal, cooked, quick (1 or 3 minutes), fat added in cooking
56203070	Oatmeal, cooked, instant, fat added in cooking
56203080	Oatmeal, cooked, instant, NS as to fat added in cooking
56203110	Oatmeal with maple flavor, cooked
56203200	Oatmeal with fruit, cooked
56203210	Oatmeal, NS as to regular, quick, or instant, made with milk, fat not added in cooking
56203211	Oatmeal, cooked, regular, made with milk, fat not added in cooking
56203212	Oatmeal, cooked, quick (1 or 3 minutes), made with milk, fat not added in cooking
56203213	Oatmeal, cooked, instant, made with milk, fat not added in cooking
56203220	Oatmeal, NS as to regular, quick, or instant, made with milk, fat added in cooking
56203221	Oatmeal, cooked, regular, made with milk, fat added in cooking
56203222	Oatmeal, cooked, quick (1 or 3 minutes), made with milk, fat added in cooking
56203223	Oatmeal, cooked, instant, made with milk, fat added in cooking
56203230	Oatmeal, NS as to regular, quick, or instant, made with milk, NS as to fat added in cooking
56203231	Oatmeal, cooked, regular, made with milk, NS as to fat added in cooking
56203232	Oatmeal, cooked, quick (1 or 3 minutes), made with milk, NS as to fat added in cooking
56203233	Oatmeal, cooked, instant, made with milk, NS as to fat added in cooking
56203540	Oatmeal, made with milk and sugar, Puerto Rican style
56203600	Oatmeal, multigrain, cooked, NS as to fat added in cooking
56203610	Oatmeal, multigrain, cooked, fat not added in cooking
56203620	Oatmeal, multigrain, cooked, fat added in cooking
56205101	Congee (Asian)
56206970	Wheat, cream of, cooked, quick, NS as to fat added in cooking
56206980	Wheat, cream of, cooked, regular, NS as to fat added in cooking
56206990	Wheat, cream of, cooked, NS as to regular, quick, or instant, NS as to fat added in cooking
56207000	Wheat, cream of, cooked, NS as to regular, quick, or instant, fat not added in cooking
56207010	Wheat, cream of, cooked, regular, fat not added in cooking
56207020	Wheat, cream of, cooked, quick, fat not added in cooking
56207030	Wheat, cream of, cooked, instant, fat not added in cooking
56207050	Wheat, cream of, cooked, made with milk and sugar, Puerto Rican style
56207060	Wheat, cream of, cooked, instant, fat added in cooking
56207070	Wheat, cream of, cooked, instant, NS as to fat added in cooking
56207080	Wheat, cream of, cooked, NS as to regular, quick, or instant, fat added in cooking
56207082	Wheat, cream of, cooked, NS as to regular, quick, or instant, made with milk, fat added in cooking
56207083	Wheat, cream of, cooked, NS as to regular, quick, or instant, made with milk, fat not added in cooking
56207084	Wheat, cream of, cooked, NS as to regular, quick, or instant, made with milk, NS as to fat added in cooking
56207086	Wheat, cream of, cooked, regular, made with milk, fat added in cooking
56207087	Wheat, cream of, cooked, regular, made with milk, fat not added in cooking
56207088	Wheat, cream of, cooked, regular, made with milk, NS as to fat added in cooking
56207091	Wheat, cream of, cooked, quick, made with milk, fat added in cooking
56207092	Wheat, cream of, cooked, quick, made with milk, fat not added in cooking
56207093	Wheat, cream of, cooked, quick, made with milk, NS as to fat added in cooking



56207094	Wheat, cream of, cooked, instant, made with milk, fat added in cooking
56207095	Wheat, cream of, cooked, instant, made with milk, fat not added in cooking
56207096	Wheat, cream of, cooked, instant, made with milk, NS as to fat added in cooking
56207190	Whole wheat cereal, cooked, NS as to fat added in cooking
56207200	Whole wheat cereal, cooked, fat not added in cooking
56207210	Whole wheat cereal, cooked, fat added in cooking
56207212	Whole wheat cereal, cooked, made with milk
56207220	Wheat, cream of, cooked, regular, fat added in cooking
56207230	Wheat, cream of, cooked, quick, fat added in cooking
56207300	Whole wheat cereal, wheat and barley, cooked, fat not added in cooking
56207330	Whole wheat cereal, wheat and barley, cooked, fat added in cooking
56207340	Whole wheat cereal, wheat and barley, cooked, NS as to fat added in cooking
56207342	Whole wheat cereal, wheat and barley, cooked, made with milk
56207350	Wheat cereal, chocolate flavored, cooked, made with milk
56207360	Wheat cereal, chocolate flavored, cooked, fat not added in cooking
56207365	Wheat cereal, chocolate flavored, cooked, fat added in cooking
56207370	Wheat cereal, chocolate flavored, cooked, NS as to fat added in cooking
56208500	Oat bran cereal, cooked, fat not added in cooking
56208510	Oat bran cereal, cooked, fat added in cooking
56208520	Oat bran cereal, cooked, NS as to fat added in cooking
56208530	Oat bran cereal, cooked, made with milk, fat not added in cooking
56208540	Oat bran cereal, cooked, made with milk, fat added in cooking
56208550	Oat bran cereal, cooked, made with milk, NS as to fat added in cooking
57602100	Oats, raw
57602500	Oat bran, uncooked
58157300	Congee (Asian) with meat, poultry, and/or seafood
58157310	Congee (Asian) with meat, poultry, and/or seafood, and vegetables
58157320	Congee (Asian) with vegetables

### **Ready-to-Eat Breakfast Cereals**

**[Peazazz and Peazac, as protein] = 10%**

57000000	Cereal, NFS
57000050	Kashi cereal, NS as to ready to eat or cooked
57000100	Oat cereal, NFS
57100100	Cereal, ready-to-eat, NFS
57101000	All-Bran
57102000	Alpen
57103000	Alpha-Bits
57103020	Alpha-bits with marshmallows
57103100	Apple Cinnamon Cheerios
57104000	Apple Jacks
57106050	Banana Nut Crunch Cereal (Post)
57106060	Banana Nut Cheerios
57106100	Basic 4
57106250	Berry Berry Kix
57106260	Berry Burst Cheerios
57106530	Blueberry Morning, Post
57107000	Booberry
57110000	All-Bran Bran Buds, Kellogg's (formerly Bran Buds)
57117000	Cap'n Crunch
57117500	Cap'n Crunch's Christmas Crunch



57119000	Cap'n Crunch's Crunch Berries
57120000	Cap'n Crunch's Peanut Butter Crunch
57123000	Cheerios
57124000	Chex cereal, NFS
57124030	Chex Chocolate
57124050	Chex Cinnamon
57124100	Chocolate Cheerios
57124200	Chocolate flavored frosted puffed corn cereal
57124300	Chocolate Lucky Charms
57124900	Cinnabon cereal
57125000	Cinnamon Toast Crunch
57125010	Cinnamon Toast Crunch Reduced Sugar
57125900	Honey Nut Clusters (formerly called Clusters)
57126000	Cocoa Krispies
57127000	Cocoa Pebbles
57128000	Cocoa Puffs
57128005	Cocoa Puffs, reduced sugar
57130000	Cookie-Crisp
57131000	Crunchy Corn Bran, Quaker
57132000	Corn Chex
57134000	Corn flakes, NFS
57135000	Corn flakes, Kellogg's
57137000	Corn Puffs
57139000	Count Chocula
57143000	Cracklin' Oat Bran
57143500	Cranberry Almond Crunch, Post
57144000	Crisp Crunch
57148000	Crispix
57148500	Crispy Brown Rice Cereal
57151000	Crispy Rice
57201900	Dora the Explorer Cereal
57206000	Familia
57206700	Fiber One
57206705	Fiber One Caramel Delight
57206710	Fiber One Honey Clusters
57206715	Fiber One Raisin Bran Clusters
57206800	Fiber 7 Flakes, Health Valley
57207000	Bran Flakes, NFS (formerly 40% Bran Flakes, NFS)
57208000	All-Bran Complete Wheat Flakes, Kellogg's
57209000	Natural Bran Flakes, Post (formerly called 40% Bran Flakes, Post)
57211000	Frankenberry
57213000	Froot Loops
57213010	Froot Loops Marshmallow
57213850	Frosted Cheerios
57214000	Frosted Mini-Wheats
57214100	Frosted Wheat Bites
57215000	Frosty O's
57216000	Frosted rice, NFS
57218000	Frosted Rice Krispies, Kellogg's
57219000	Fruit & Fibre (fiber), NFS
57221000	Fruit & Fibre (fiber) with dates, raisins, and walnuts
57221700	Fruit Rings, NFS



57221800	Fruit Whirls
57221810	Fruity Cheerios
57223000	Fruity Pebbles
57224000	Golden Grahams
57227000	Granola, NFS
57228000	Granola, homemade
57229000	Granola, lowfat, Kellogg's
57229500	Granola with Raisins, lowfat, Kellogg's
57230000	Grape-Nuts
57231000	Grape-Nuts Flakes
57231100	Grape-Nuts Trail Mix Crunch
57231200	Great Grains, Raisin, Date, and Pecan Whole Grain Cereal, Post
57231250	Great Grains Double Pecan Whole Grain Cereal, Post
57237100	Honey Bunches of Oats Honey Roasted Cereal
57237200	Honey Bunches of Oats with Vanilla Clusters, Post
57237300	Honey Bunches of Oats with Almonds, Post
57237310	Honey Bunches of Oats with Pecan Bunches
57237900	Honey Bunches of Oats Just Bunches
57238000	Honeycomb, plain
57239000	Honeycomb, strawberry
57239100	Honey Crunch Corn Flakes, Kellogg's
57240100	Honey Nut Chex
57241000	Honey Nut Cheerios
57241200	Honey Nut Shredded Wheat, Post
57243000	Honey Smacks, Kellogg's (formerly Smacks; Honey Smacks)
57301500	Kashi, Puffed
57301505	Kashi Autumn Wheat
57301510	Kashi GOLEAN
57301511	Kashi GOLEAN Crunch
57301512	Kashi GOLEAN Crunch Honey Almond Flax
57301520	Kashi Good Friends
57301530	Kashi Heart to Heart Honey Toasted Oat
57301535	Kashi Heart to Heart Oat Flakes and Blueberry Clusters
57301540	Kashi Honey Sunshine
57302100	King Vitaman
57303100	Kix
57303105	Honey Kix
57304100	Life (plain and cinnamon)
57305100	Lucky Charms
57305150	Frosted oat cereal with marshmallows
57305160	Malt-O-Meal Blueberry Muffin Tops
57305165	Malt-O-Meal Cinnamon Toasters
57305170	Malt-O-Meal Coco-Roos
57305174	Malt-O-Meal Colossal Crunch
57305175	Malt-O-Meal Cocoa Dyno-Bites
57305180	Malt-O-Meal Corn Bursts
57305200	Malt-O-Meal Crispy Rice
57305210	Malt-O-Meal Frosted Flakes
57305215	Malt-O-Meal Frosted Mini Spooners
57305300	Malt-O-Meal Fruity Dyno-Bites
57305400	Malt-O-Meal Honey Graham Squares
57305500	Malt-O-Meal Honey and Nut Toasty O's





57305600	Malt-O-Meal Marshmallow Mateys
57306100	Malt-O-Meal Puffed Rice
57306120	Malt-O-Meal Puffed Wheat
57306130	Malt-O-Meal Raisin Bran
57306500	Malt-O-Meal Golden Puffs (formerly Sugar Puffs)
57306700	Malt-O-Meal Toasted Oat Cereal
57306800	Malt-O-meal Tootie Fruities
57307010	Maple Pecan Crunch Cereal, Post
57307500	Millet, puffed
57308150	Mueslix cereal, NFS
57308190	Muesli, dried fruit and nuts (formerly Muesli with raisins, dates, and almonds)
57308400	MultiGrain Cheerios
57309100	Nature Valley Granola, with fruit and nuts
57316200	Nutty Nuggets, Ralston Purina
57316300	Oat Bran Flakes, Health Valley
57316380	Oat Cluster Cheerios Crunch
57316450	Oatmeal Crisp with Almonds
57316500	Oatmeal Crisp, Raisin (formerly Oatmeal Raisin Crisp)
57316710	Oh's, Honey Graham
57319000	100% Natural Cereal, plain, Quaker
57320500	100 % Natural Cereal, with oats, honey and raisins, Quaker
57321500	100 % Natural Wholegrain Cereal with raisins, lowfat, Quaker
57321900	Organic Flax Plus, Nature's Path
57321905	Organic Flax Plus, Pumpkin Granola, Nature's Path
57323000	Sweet Crunch, Quaker (formerly called Popeye)
57325000	Product 19
57326000	Puffins Cereal
57327450	Quaker Oat Bran Cereal
57327500	Quaker Oatmeal Squares (formerly Quaker Oat Squares)
57328000	Quisp
57329000	Raisin bran, NFS
57330000	Raisin Bran, Kellogg's
57330010	Raisin Bran Crunch, Kellogg's
57331000	Raisin Bran, Post
57332050	Raisin Bran, Total
57332100	Raisin Nut Bran
57335550	Reese's Peanut Butter Puffs cereal
57336000	Rice Chex
57337000	Rice Flakes, NFS
57339000	Rice Krispies, Kellogg's
57339500	Rice Krispies Treats Cereal, Kellogg's
57340000	Rice, puffed
57341000	Shredded Wheat'N Bran
57341200	Smart Start Strong Heart Antioxidants Cereal, Kellogg's
57344000	Special K
57344001	Special K Blueberry
57344005	Special K Chocolatey Delight
57344007	Special K Low Fat Granola
57344010	Special K Red Berries
57344015	Special K Fruit & Yogurt
57344020	Special K Vanilla Almond
57344025	Special K Cinnamon Pecan, Kellogg's



57346500	Oatmeal Honey Nut Heaven, Quaker (formerly Toasted Oatmeal, Honey Nut)
57347000	Corn Pops
57348000	Frosted corn flakes, NFS
57349000	Frosted Flakes, Kellogg's
57349020	Reduced Sugar Frosted Flakes Cereal, Kellogg's
57355000	Golden Crisp (Formerly called Super Golden Crisp)
57401100	Toasted oat cereal
57406100	Total
57407100	Trix
57407110	Trix, reduced sugar
57408100	Uncle Sam Cereal (formerly Uncle Sam's Hi Fiber Cereal)
57409100	Waffle Crisp, Post
57410000	Weetabix Whole Wheat Cereal
57411000	Wheat Chex
57412000	Wheat germ, plain
57413000	Wheat germ, with sugar and honey
57416000	Wheat, puffed, plain
57416010	Wheat, puffed, presweetened with sugar
57417000	Shredded Wheat, 100%
57418000	Wheaties
57419000	Yogurt Burst Cheerios
57601100	Wheat bran, unprocessed

## **Cheeses**

### **Processed Cheese or Cheese Mixtures; Cream Cheese and Cheese-Based Spreads**

**[Peazz and Pezac, as protein] = 10%**

14301010	Cheese, cream
14303010	Cheese, cream, light or lite (formerly called Cream Cheese Lowfat)
14410100	Cheese, American and Swiss blends
14410120	Cheese, American, reduced fat
14410130	Cheese, American, nonfat or fat free
14410210	Cheese, American, reduced sodium
14410330	Cheese spread, American or Cheddar cheese base, reduced fat
14410380	Cheese, processed cream cheese product, nonfat or fat free
14410500	Cheese, processed cheese food
14410600	Cheese, processed, with vegetables
14420100	Cheese spread, American or Cheddar cheese base
14420160	Cheese spread, Swiss cheese base
14420200	Cheese spread, cream cheese, regular
14420210	Cheese spread, cream cheese, light or lite
14420300	Cheese spread, pressurized can

### **Mixtures containing processed cheese or cheese mixtures, cream cheese or cheese-based spreads**

(Adjusted for a cheese or cheese mixture, cream cheese or cheese-based spread content of 4.6 to 10.3%)

**[Peazz and Pezac, as protein] = 0.46 to 1.03%**

71501015	White potato, from fresh, mashed, made with milk, and sour cream and/or cream cheese
71501025	White potato, from fresh, mashed, made with milk, and sour cream and/or cream cheese and fat
71501055	White potato, from fresh, mashed, made with sour cream and/or cream cheese and fat
91501050	Gelatin dessert with cream cheese



91501080 Gelatin dessert with fruit and cream cheese  
91511050 Gelatin dessert, dietetic, with cream cheese, sweetened with low calorie sweetener  
91511080 Gelatin dessert, dietetic, with fruit and cream cheese, sweetened with low calorie sweetener

**Coffee and Tea (including powder and all other forms)**

**Specialty Coffee Drinks**

**[Peazazz and Peazac, as protein] = 8%**

92101600 Coffee, Turkish  
92101610 Coffee, espresso  
92101630 Coffee, espresso, decaffeinated  
92101800 Coffee, Cuban  
92101810 Coffee, macchiato  
92101820 Coffee, macchiato, sweetened  
92101850 Coffee, cafe con leche  
92101851 Coffee, cafe con leche, decaffeinated  
92101900 Coffee, Latte  
92101901 Coffee, Latte, nonfat  
92101903 Coffee, Latte, with non-dairy milk  
92101904 Coffee, Latte, flavored  
92101905 Coffee, Latte, nonfat, flavored  
92101906 Coffee, Latte, with non-dairy milk, flavored  
92101910 Coffee, Latte, decaffeinated  
92101911 Coffee, Latte, decaffeinated, nonfat  
92101913 Coffee, Latte, decaffeinated, with non-dairy milk  
92101917 Coffee, Latte, decaffeinated, flavored  
92101918 Coffee, Latte, decaffeinated, nonfat, flavored  
92101919 Coffee, Latte, decaffeinated, with non-dairy milk, flavored  
92101920 Frozen coffee drink  
92101921 Frozen coffee drink, nonfat  
92101923 Frozen coffee drink, with non-dairy milk  
92101925 Frozen coffee drink, with whipped cream  
92101926 Frozen coffee drink, nonfat, with whipped cream  
92101928 Frozen coffee drink, with non-dairy milk and whipped cream  
92101930 Frozen coffee drink, decaffeinated  
92101931 Frozen coffee drink, decaffeinated, nonfat  
92101933 Frozen coffee drink, decaffeinated, with non-dairy milk  
92101935 Frozen coffee drink, decaffeinated, with whipped cream  
92101936 Frozen coffee drink, decaffeinated, nonfat, with whipped cream  
92101938 Frozen coffee drink, decaffeinated, with non-dairy milk and whipped cream  
92101950 Coffee, Cafe Mocha  
92101955 Coffee, Cafe Mocha, nonfat  
92101960 Coffee, Cafe Mocha, with non-dairy milk  
92101965 Coffee, Cafe Mocha, decaffeinated  
92101970 Coffee, Cafe Mocha, decaffeinated, nonfat  
92101975 Coffee, Cafe Mocha, decaffeinated, with non-dairy milk  
92102000 Frozen mocha coffee drink  
92102010 Frozen mocha coffee drink, nonfat  
92102020 Frozen mocha coffee drink, with non-dairy milk  
92102030 Frozen mocha coffee drink, with whipped cream  
92102040 Frozen mocha coffee drink, nonfat, with whipped cream



92102050	Frozen mocha coffee drink, with non-dairy milk and whipped cream
92102060	Frozen mocha coffee drink, decaffeinated
92102070	Frozen mocha coffee drink, decaffeinated, nonfat
92102080	Frozen mocha coffee drink, decaffeinated, with non-dairy milk
92102090	Frozen mocha coffee drink, decaffeinated, with whipped cream
92102100	Frozen mocha coffee drink, decaffeinated, nonfat, with whipped cream
92102110	Frozen mocha coffee drink, decaffeinated, with non-dairy milk and whipped cream
92102500	Coffee, Iced Latte
92102501	Coffee, Iced Latte, nonfat
92102502	Coffee, Iced Latte, with non-dairy milk
92102503	Coffee, Iced Latte, flavored
92102504	Coffee, Iced Latte, nonfat, flavored
92102505	Coffee, Iced Latte, with non-dairy milk, flavored
92102510	Coffee, Iced Latte, decaffeinated
92102511	Coffee, Iced Latte, decaffeinated, nonfat
92102512	Coffee, Iced Latte, decaffeinated, with non-dairy milk
92102513	Coffee, Iced Latte, decaffeinated, flavored
92102514	Coffee, Iced Latte, decaffeinated, nonfat, flavored
92102515	Coffee, Iced Latte, decaffeinated, with non-dairy milk, flavored
92102600	Coffee, Iced Cafe Mocha
92102601	Coffee, Iced Cafe Mocha, nonfat
92102602	Coffee, Iced Caf� Mocha, with non-dairy milk
92102610	Coffee, Iced Cafe Mocha, decaffeinated
92102611	Coffee, Iced Cafe Mocha, decaffeinated, nonfat
92102612	Coffee, Iced Caf� Mocha, decaffeinated, with non-dairy milk
92152000	Coffee and chicory, brewed
92152010	Coffee and chicory, brewed, decaffeinated
92161000	Coffee, Cappuccino
92161001	Coffee, Cappuccino, nonfat
92161002	Coffee, Cappuccino, with non-dairy milk
92162000	Coffee, Cappuccino, decaffeinated
92162001	Coffee, Cappuccino, decaffeinated, nonfat
92162002	Coffee, Cappuccino, decaffeinated, with non-dairy milk
92171000	Coffee, bottled/canned
92171010	Coffee, bottled/canned, light

#### **Ready-to-Drink Tea Beverages and Instant Tea**

**[Peazazz and Peazac, as protein] = 8%**

92307500	Iced Tea / Lemonade juice drink
92307510	Iced Tea / Lemonade juice drink, light
92307520	Iced Tea / Lemonade juice drink, diet
92309000	Tea, iced, bottled, black
92309010	Tea, iced, bottled, black, decaffeinated
92309020	Tea, iced, bottled, black, diet
92309030	Tea, iced, bottled, black, decaffeinated, diet
92309040	Tea, iced, bottled, black, unsweetened
92309050	Tea, iced, bottled, black, decaffeinated, unsweetened
92309500	Tea, iced, bottled, green
92309510	Tea, iced, bottled, green, diet
92309520	Tea, iced, bottled, green, unsweetened
92305010	Tea, iced, instant, black, unsweetened



92305040	Tea, iced, instant, black, pre-sweetened with sugar
92305050	Tea, iced, instant, black, decaffeinated, pre-sweetened with sugar
92305090	Tea, iced, instant, black, pre-sweetened with low calorie sweetener
92305110	Tea, iced, instant, black, decaffeinated, pre-sweetened with low calorie sweetener
92305180	Tea, iced, instant, black, decaffeinated, unsweetened
92305900	Tea, iced, instant, green, unsweetened
92305910	Tea, iced, instant, green, pre-sweetened with sugar
92305920	Tea, iced, instant, green, pre-sweetened with low calorie sweetener

Adjusted for a reconstitution factor of 16

**[Peazazz and Peazac, as protein] = 128%**

92307000	Tea, iced, instant, black, unsweetened, dry
92307400	Tea, iced, instant, black, pre-sweetened, dry

### **Confections and Frostings**

#### **Frostings, Icings, and Coatings**

**[Peazazz and Peazac, as protein] = 2%**

91305010	Icing, chocolate
91305020	Icing, white

### **Dairy Product Analogs**

#### **Non-Dairy Milk and Cream; Soy- and/or Rice-Based Beverages**

**[Peazazz and Peazac, as protein] = 8%**

11320000	Soy milk
11320100	Soy milk, light
11320200	Soy milk, nonfat
11321000	Soy milk, chocolate
11321100	Soy milk, light, chocolate
11321200	Soy milk, nonfat, chocolate
11340000	Imitation milk, non-soy, sweetened
11350000	Almond milk, sweetened
11350010	Almond milk, sweetened, chocolate
11350020	Almond milk, unsweetened
11350030	Almond milk, unsweetened, chocolate
11360000	Rice milk
11370000	Coconut milk
12200100	Cream substitute, NS as to frozen, liquid, or powdered
12210100	Cream substitute, frozen
12210200	Cream substitute, liquid
12210210	Cream substitute, flavored, liquid
12210250	Cream substitute, light, liquid
12210255	Cream substitute, light, flavored, liquid
12210260	Cream substitute, fat free, liquid
12210270	Cream substitute, fat free, flavored, liquid
12210305	Cream substitute, sugar free, liquid
12210310	Cream substitute, sugar free, flavored, liquid
12210400	Cream substitute, powdered



12210410	Cream substitute, light, powdered
12210420	Cream substitute, flavored, powdered
12210430	Cream substitute, fat free, powder
12210440	Cream substitute, fat free, flavored, powder
12210500	Cream substitute, sugar free, powder
12210505	Cream substitute, sugar free, flavored, powder

Adjusted for Non-Dairy Milk and Cream; Soy- and/or Rice-Based Beverages content of 77.5%  
**[Peazazz and Peazac, as protein] = 6.2%**

11512120	Hot chocolate / Cocoa, ready to drink, made with non-dairy milk and whipped cream
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#### **Non-Dairy Dips**

**[Peazazz and Peazac, as protein] = 8%**

41205050	Bean dip, made with refried beans
41205070	Hummus
75412030	Eggplant dip

#### **Non-Dairy Whipped Toppings**

**[Peazazz and Peazac, as protein] = 10%**

12220000	Whipped topping, nondairy, NS as to canned, frozen, or made from powdered mix
12220100	Whipped topping, nondairy, pressurized can
12220200	Whipped topping, nondairy, frozen
12220250	Whipped topping, nondairy, frozen, lowfat
12220270	Whipped topping, nondairy, frozen, fat free
12220280	Whipped topping, nondairy, frozen, sugar free
12220300	Whipped cream substitute, nondairy, made from powdered mix
12220400	Whipped cream substitute, nondairy, lowfat, low sugar, made from powdered mix

#### **Non-Dairy Yogurt**

**[Peazazz and Peazac, as protein] = 20%**

41420380	Soy yogurt
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#### **Imitation Cheese**

**[Peazazz and Peazac, as protein] = 35%**

14502000	Imitation cheese
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#### **Egg Products**

##### **Egg-Based Dishes**

**[Peazazz and Peazac, as protein] = 5%**

32101530	Egg curry
32102000	Egg, deviled
32105190	Egg casserole with bread, cheese, milk and meat
32105200	Egg foo yung (young), NFS
32105210	Chicken egg foo yung (young)
32105220	Pork egg foo yung (young)



32105230	Shrimp egg foo yung (young)
32105240	Beef egg foo yung (young)
32105310	Ripe plantain omelet, Puerto Rican style (Tortilla de amarillo)
32105330	Scrambled eggs with jerked beef, Puerto Rican style (Revoltillo de tasajo)
32110100	Eggs a la Malaguena, Puerto Rican style (Huevos a la Malaguena)
32110150	Shrimp-egg patty (Torta de Cameron seco)
32130000	Egg omelet or scrambled egg, made with margarine
32130010	Egg omelet or scrambled egg, made with oil
32130020	Egg omelet or scrambled egg, made with butter
32130040	Egg omelet or scrambled egg, made with animal fat or meat drippings
32130060	Egg omelet or scrambled egg, made with cooking spray
32130070	Egg omelet or scrambled egg, made without fat
32130100	Egg omelet or scrambled egg, with cheese, made with margarine
32130110	Egg omelet or scrambled egg, with cheese, made with oil
32130120	Egg omelet or scrambled egg, with cheese, made with butter
32130140	Egg omelet or scrambled egg, with cheese, made with animal fat or meat drippings
32130160	Egg omelet or scrambled egg, with cheese, made with cooking spray
32130170	Egg omelet or scrambled egg, with cheese, made without fat
32130200	Egg omelet or scrambled egg, with meat, made with margarine
32130210	Egg omelet or scrambled egg, with meat, made with oil
32130220	Egg omelet or scrambled egg, with meat, made with butter
32130240	Egg omelet or scrambled egg, with meat, made with animal fat or meat drippings
32130260	Egg omelet or scrambled egg, with meat, made with cooking spray
32130270	Egg omelet or scrambled egg, with meat, made without fat
32130300	Egg omelet or scrambled egg, with cheese and meat, made with margarine
32130310	Egg omelet or scrambled egg, with cheese and meat, made with oil
32130320	Egg omelet or scrambled egg, with cheese and meat, made with butter
32130340	Egg omelet or scrambled egg, with cheese and meat, made with animal fat or meat drippings
32130360	Egg omelet or scrambled egg, with cheese and meat, made with cooking spray
32130370	Egg omelet or scrambled egg, with cheese and meat, made without fat
32130400	Egg omelet or scrambled egg, with tomatoes, fat added in cooking
32130410	Egg omelet or scrambled egg, with tomatoes, fat not added in cooking
32130420	Egg omelet or scrambled egg, with tomatoes, NS as to fat added in cooking
32130430	Egg omelet or scrambled egg, with dark-green vegetables, fat added in cooking
32130440	Egg omelet or scrambled egg, with dark-green vegetables, fat not added in cooking
32130450	Egg omelet or scrambled egg, with dark-green vegetables, NS as to fat added in cooking
32130460	Egg omelet or scrambled egg, with tomatoes and dark-green vegetables, fat added in cooking
32130470	Egg omelet or scrambled egg, with tomatoes and dark-green vegetables, fat not added in cooking
32130480	Egg omelet or scrambled egg, with tomatoes and dark-green vegetables, NS as to fat added in cooking
32130490	Egg omelet or scrambled egg, with vegetables other than dark green and/or tomatoes, fat added in cooking
32130500	Egg omelet or scrambled egg, with vegetables other than dark green and/or tomatoes, fat not added in cooking
32130510	Egg omelet or scrambled egg, with vegetables other than dark green and/or tomatoes, NS as to fat added in cooking
32130600	Egg omelet or scrambled egg, with cheese and tomatoes, fat added in cooking
32130610	Egg omelet or scrambled egg, with cheese and tomatoes, fat not added in cooking
32130620	Egg omelet or scrambled egg, with cheese and tomatoes, NS as to fat added in cooking
32130630	Egg omelet or scrambled egg, with cheese and dark-green vegetables, fat added in cooking
32130640	Egg omelet or scrambled egg, with cheese and dark-green vegetables, fat not added in cooking
32130650	Egg omelet or scrambled egg, with cheese and dark-green vegetables, NS as to fat added in cooking



32130660	Egg omelet or scrambled egg, with cheese, tomatoes, and dark-green vegetables, fat added in cooking
32130670	Egg omelet or scrambled egg, with cheese, tomatoes, and dark-green vegetables, fat not added in cooking
32130680	Egg omelet or scrambled egg, with cheese, tomatoes, and dark-green vegetables, NS as to fat added in cooking
32130690	Egg omelet or scrambled egg, with cheese and vegetables other than dark green and/or tomatoes, fat added in cooking
32130700	Egg omelet or scrambled egg, with cheese and vegetables other than dark green and/or tomatoes, fat not added in cooking
32130710	Egg omelet or scrambled egg, with cheese and vegetables other than dark green and/or tomatoes, NS as to fat added in cooking
32130800	Egg omelet or scrambled egg, with meat and tomatoes, fat added in cooking
32130810	Egg omelet or scrambled egg, with meat and tomatoes, fat not added in cooking
32130820	Egg omelet or scrambled egg, with meat and tomatoes, NS as to fat added in cooking
32130830	Egg omelet or scrambled egg, with meat and dark-green vegetables, fat added in cooking
32130840	Egg omelet or scrambled egg, with meat and dark-green vegetables, fat not added in cooking
32130850	Egg omelet or scrambled egg, with meat and dark-green vegetables, NS as to fat added in cooking
32130860	Egg omelet or scrambled egg, with meat, tomatoes, and dark-green vegetables, fat added in cooking
32130870	Egg omelet or scrambled egg, with meat, tomatoes, and dark-green vegetables, fat not added in cooking
32130880	Egg omelet or scrambled egg, with meat, tomatoes, and dark-green vegetables, NS as to fat added in cooking
32130890	Egg omelet or scrambled egg, with meat and vegetables other than dark-green and/or tomatoes, fat added in cooking
32130900	Egg omelet or scrambled egg, with meat and vegetables other than dark-green and/or tomatoes, fat not added in cooking
32130910	Egg omelet or scrambled egg, with meat and vegetables other than dark-green and/or tomatoes, NS as to fat added in cooking
32131000	Egg omelet or scrambled egg, with cheese, meat, and tomatoes, fat added in cooking
32131010	Egg omelet or scrambled egg, with cheese, meat, and tomatoes, fat not added in cooking
32131020	Egg omelet or scrambled egg, with cheese, meat, and tomatoes, NS as to fat added in cooking
32131030	Egg omelet or scrambled egg, with cheese, meat, and dark-green vegetables, fat added in cooking
32131040	Egg omelet or scrambled egg, with cheese, meat, and dark-green vegetables, fat not added in cooking
32131050	Egg omelet or scrambled egg, with cheese, meat, and dark-green vegetables, NS as to fat added in cooking
32131060	Egg omelet or scrambled egg, with cheese, meat, tomatoes, and dark-green vegetables, fat added in cooking
32131070	Egg omelet or scrambled egg, with cheese, meat, tomatoes, and dark-green vegetables, fat not added in cooking
32131080	Egg omelet or scrambled egg, with cheese, meat, tomatoes, and dark-green vegetables, NS as to fat added in cooking
32131090	Egg omelet or scrambled egg, with cheese, meat, and vegetables other than dark-green and/or tomatoes, fat added in cooking
32131100	Egg omelet or scrambled egg, with cheese, meat, and vegetables other than dark-green and/or tomatoes, fat not added in cooking
32131110	Egg omelet or scrambled egg, with cheese, meat, and vegetables other than dark-green and/or tomatoes, NS as to fat added in cooking
32131200	Egg omelet or scrambled egg, with potatoes and/or onions, fat added in cooking
32131210	Egg omelet or scrambled egg, with potatoes and/or onions, fat not added in cooking
32131220	Egg omelet or scrambled egg, with potatoes and/or onions, NS as to fat added in cooking
32400060	Egg white omelet, scrambled, or fried, made with margarine





32400065	Egg white omelet, scrambled, or fried, made with oil
32400070	Egg white omelet, scrambled, or fried, made with butter
32400075	Egg white omelet, scrambled, or fried, made with cooking spray
32400080	Egg white omelet, scrambled, or fried, made without fat
32400100	Egg white, omelet, scrambled, or fried, with cheese, fat added in cooking
32400110	Egg white, omelet, scrambled, or fried, with cheese, fat not added in cooking
32400120	Egg white, omelet, scrambled, or fried, with cheese, NS as to fat added in cooking
32400200	Egg white, omelet, scrambled, or fried, with meat, fat added in cooking
32400210	Egg white, omelet, scrambled, or fried, with meat, fat not added in cooking
32400220	Egg white, omelet, scrambled, or fried, with meat, NS as to fat added in cooking
32400300	Egg white, omelet, scrambled, or fried, with vegetables, fat added in cooking
32400310	Egg white, omelet, scrambled, or fried, with vegetables, fat not added in cooking
32400320	Egg white, omelet, scrambled, or fried, with vegetables, NS as to fat added in cooking
32400400	Egg white, omelet, scrambled, or fried, with cheese and meat, fat added in cooking
32400410	Egg white, omelet, scrambled, or fried, with cheese and meat, fat not added in cooking
32400420	Egg white, omelet, scrambled, or fried, with cheese and meat, NS as to fat added in cooking
32400500	Egg white, omelet, scrambled, or fried, with cheese and vegetables, fat added in cooking
32400510	Egg white, omelet, scrambled, or fried, with cheese and vegetables, fat not added in cooking
32400520	Egg white, omelet, scrambled, or fried, with cheese and vegetables, NS as to fat added in cooking
32400600	Egg white, omelet, scrambled, or fried, with meat and vegetables, fat added in cooking
32400610	Egg white, omelet, scrambled, or fried, with meat and vegetables, fat not added in cooking
32400620	Egg white, omelet, scrambled, or fried, with meat and vegetables, NS as to fat added in cooking
32400700	Egg white, omelet, scrambled, or fried, with cheese, meat, and vegetables, fat added in cooking
32400710	Egg white, omelet, scrambled, or fried, with cheese, meat, and vegetables, fat not added in cooking
32400720	Egg white, omelet, scrambled, or fried, with cheese, meat, and vegetables, NS as to fat added in cooking
58125110	Quiche with meat, poultry or fish
58125120	Spinach quiche, meatless
58125180	Cheese quiche, meatless

#### **Egg Substitutes**

**[Peazazz and Peazac, as protein] = 20%**

#### **Mixture containing egg substitutes**

(Adjusted for an egg substitute content of 51.6 to 99.3%)

**[Peazazz and Peazac, as protein] = 10.32 to 19.86%**

33001000	Egg substitute, omelet, scrambled, or fried, made with margarine
33001010	Egg substitute, omelet, scrambled, or fried, made with oil
33001020	Egg substitute, omelet, scrambled, or fried, made with butter
33001040	Egg substitute, omelet, scrambled, or fried, made with cooking spray
33001050	Egg substitute, omelet, scrambled, or fried, made without fat
33001100	Egg substitute, cheese flavored, omelet, scrambled, or fried, fat added in cooking
33001110	Egg substitute, cheese flavored, omelet, scrambled, or fried, fat not added in cooking
33001120	Egg substitute, cheese flavored, omelet, scrambled, or fried, NS as to fat added in cooking
33001200	Egg substitute, vegetable flavored, omelet, scrambled, or fried, fat added in cooking
33001210	Egg substitute, vegetable flavored, omelet, scrambled, or fried, fat not added in cooking
33001220	Egg substitute, vegetable flavored, omelet, scrambled, or fried, NS as to fat added in cooking
33401000	Egg substitute, omelet, scrambled, or fried, with cheese, fat added in cooking
33401010	Egg substitute, omelet, scrambled, or fried, with cheese, fat not added in cooking
33401020	Egg substitute, omelet, scrambled, or fried, with cheese, NS as to fat added in cooking
33401100	Egg substitute, omelet, scrambled, or fried, with meat, fat added in cooking



33401110	Egg substitute, omelet, scrambled, or fried, with meat, fat not added in cooking
33401120	Egg substitute, omelet, scrambled, or fried, with meat, NS as to fat added in cooking
33401200	Egg substitute, omelet, scrambled, or fried, with vegetables, fat added in cooking
33401210	Egg substitute, omelet, scrambled, or fried, with vegetables, fat not added in cooking
33401220	Egg substitute, omelet, scrambled, or fried, with vegetables, NS as to fat added in cooking
33401300	Egg substitute, omelet, scrambled, or fried, with cheese and meat, fat added in cooking
33401310	Egg substitute, omelet, scrambled, or fried, with cheese and meat, fat not added in cooking
33401320	Egg substitute, omelet, scrambled, or fried, with cheese and meat, NS as to fat added in cooking
33401400	Egg substitute, omelet, scrambled, or fried, with cheese and vegetables, fat added in cooking
33401410	Egg substitute, omelet, scrambled, or fried, with cheese and vegetables, fat not added in cooking
33401420	Egg substitute, omelet, scrambled, or fried, with cheese and vegetables, NS as to fat added in cooking
33401500	Egg substitute, omelet, scrambled, or fried, with meat and vegetables, fat added in cooking
33401510	Egg substitute, omelet, scrambled, or fried, with meat and vegetables, fat not added in cooking
33401520	Egg substitute, omelet, scrambled, or fried, with meat and vegetables, NS as to fat added in cooking
33401600	Egg substitute, omelet, scrambled, or fried, with cheese, meat, and vegetables, fat added in cooking
33401610	Egg substitute, omelet, scrambled, or fried, with cheese, meat, and vegetables, fat not added in cooking
33401620	Egg substitute, omelet, scrambled, or fried, with cheese, meat, and vegetables, NS as to fat added in cooking

## Fats and Oils

### Fat-Based Sauces

[Peazz and Pezac, as protein] = 4%

81301020	Lemon-butter sauce
81302010	Hollandaise sauce
81302040	Sandwich spread
81302050	Tartar sauce
81302060	Horseradish sauce
81302070	Pesto sauce
81312000	Tartar sauce, reduced fat/calorie

### Margarine and Margarine-like Spreads

[Peazz and Pezac, as protein] = 1%

81102000	Margarine, NFS
81102010	Margarine, stick, salted
81102020	Margarine, tub, salted
81103020	Margarine, whipped, tub, salted
81103030	Margarine, stick, unsalted
81103040	Margarine-like spread, stick, salted
81103041	Margarine-like spread, made with yogurt, stick, salted
81103060	Margarine, tub, unsalted
81103070	Margarine, whipped, tub, unsalted
81103080	Margarine-like spread, tub, salted
81103090	Margarine-like spread, liquid, salted
81103100	Margarine-like spread, stick, unsalted
81103120	Margarine-like spread, tub, unsalted
81103130	Margarine-like spread, whipped, tub, salted
81103140	Margarine-like spread, tub, sweetened
81104010	Margarine-like spread, reduced calorie, about 40% fat, tub, salted



81104011	Margarine-like spread, reduced calorie, about 40% fat, made with yogurt, tub, salted
81104020	Margarine-like spread, reduced calorie, about 40% fat, stick, salted
81104050	Margarine-like spread, reduced calorie, about 20% fat, tub, salted
81104100	Margarine-like spread, fat free, tub, salted
81104110	Margarine-like spread, fat free, liquid, salted
81104500	Vegetable oil-butter spread, stick, salted
81104510	Vegetable oil-butter spread, tub, salted
81104550	Vegetable oil-butter spread, reduced calorie, stick, salted
81104560	Vegetable oil-butter spread, reduced calorie, tub, salted
81105010	Butter-margarine blend, stick, salted
81105020	Butter-margarine blend, tub, salted
81105500	Butter-vegetable oil blend

**Mayonnaise and Mayonnaise-Type Dressings**  
**[Peazz and Pezac, as protein] = 4%**

83103000	Coleslaw dressing
83107000	Mayonnaise, regular
83108000	Mayonnaise, imitation
83109000	Russian dressing
83110000	Mayonnaise-type salad dressing
83112000	Avocado dressing
83112500	Creamy dressing
83115000	Yogurt dressing
83201400	Coleslaw dressing, light
83204000	Mayonnaise, light
83204030	Mayonnaise, reduced fat, with olive oil
83204050	Mayonnaise-type salad dressing, light
83204500	Honey mustard dressing, light
83205450	Italian dressing, light
83206000	Russian dressing, light
83206500	Sesame dressing, light
83207000	Thousand Island dressing, light
83300700	Mayonnaise, fat free

Adjusted for mayonnaise and mayonnaise-type dressing content of 9.1 to 11.8  
**[Peazz and Pezac, as protein] = 0.36 to 0.47%**

58127500	Vegetable submarine sandwich, with fat free spread
58127510	Vegetable submarine sandwich, with spread

**Salad Dressings**  
**[Peazz and Pezac, as protein] = 3%**

83100100	Salad dressing, NFS, for salads
83100200	Salad dressing, NFS, for sandwiches
83101000	Blue or roquefort cheese dressing
83102000	Caesar dressing
83104000	French or Catalina dressing
83105500	Honey mustard dressing
83106000	Italian dressing, made with vinegar and oil
83112950	Poppy seed dressing



83112990	Sesame dressing
83114000	Thousand Island dressing
83200100	Salad dressing, light, NFS
83201000	Blue or roquefort cheese dressing, light
83202020	French or Catalina dressing, light
83203000	Caesar dressing, light
83210100	Creamy dressing, light
83300100	Blue or roquefort cheese dressing, fat free
83300200	Caesar dressing, fat free
83300300	Creamy dressing, fat free
83300400	French or Catalina dressing, fat free
83300500	Honey mustard dressing, fat free
83300600	Italian dressing, fat free
83300800	Russian dressing, fat free
83300900	Salad dressing, fat free, NFS
83301000	Thousand Island dressing, fat free

## **Fish Products**

### **Fish-Based Entrees**

**[Peazazz and Peazac, as protein] = 5%**

27150010	Fish with cream or white sauce, not tuna or lobster (mixture)
27150050	Fish timbale or mousse
27150060	Lobster newburg
27150070	Lobster with butter sauce (mixture)
27150100	Shrimp curry
27150110	Shrimp cocktail (shrimp with cocktail sauce)
27150120	Tuna with cream or white sauce (mixture)
27150130	Seafood newburg
27150160	Shrimp with lobster sauce (mixture)
27150170	Sweet and sour shrimp
27150190	Lobster sauce (broth-based)
27150200	Oyster sauce (white sauce-based)
27150210	Fish sauce (bagoong)
27150230	Shrimp scampi
27150250	Fish moochim (Korean style), dried fish with soy sauce
27150310	Fish with tomato-based sauce (mixture)
27150320	Fish curry
27150330	Mussels with tomato-based sauce (mixture)
27150350	Sardines with tomato-based sauce (mixture)
27150370	Sardines with mustard sauce (mixture)
27150410	Shrimp teriyaki (shrimp with soy-based sauce) (mixture)
27150510	Scallops with cheese sauce (mixture)
27151030	Marinated fish (Ceviche)
27151040	Crabs in tomato-based sauce, Puerto Rican style (mixture) (Salmorejo de jueyes)
27151050	Shrimp in garlic sauce, Puerto Rican style (mixture) (Camarones al ajillo)
27151070	Stewed codfish, Puerto Rican style, no potatoes (potatoes reported separately)
27250080	Salmon loaf
27250150	Tuna loaf
27250250	Flounder with crab stuffing
27250260	Lobster with bread stuffing, baked



27250610	Tuna noodle casserole with cream or white sauce
27250630	Tuna noodle casserole with (mushroom) soup
27250810	Fish and rice with tomato-based sauce
27250820	Fish and rice with cream sauce
27251010	Stewed salmon, Puerto Rican style (Salmon guisado)
27350020	Paella with seafood
27350030	Seafood stew with potatoes and vegetables (excluding carrots, broccoli, and dark-green leafy), tomato-base sauce
27350060	Shrimp creole, with rice
27350070	Tuna pot pie
27350080	Tuna noodle casserole with vegetables, cream or white sauce
27350090	Fish, noodles, and vegetables (including carrots, broccoli, and/or dark green leafy), cheese sauce (mixture)
27350100	Fish, noodles, and vegetables (excluding carrots, broccoli, and dark-green leafy), cheese sauce (mixture)
27350110	Bouillabaisse
27350200	Oyster pie
27350310	Seafood stew with potatoes and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-base sauce
27350410	Tuna noodle casserole with vegetables and (mushroom) soup
27351010	Codfish with starchy vegetables, Puerto Rican style (Serenata de bacalao) (mixture)
27351020	Codfish salad, Puerto Rican style (Gazpacho de bacalao)
27351030	Stewed codfish, Puerto Rican style (Bacalao guisado)
27351040	Biscayne codfish, Puerto Rican style (Bacalao a la Vizcaina)
27351050	Codfish salad, Puerto Rican style (Ensalada de bacalao)
27360090	Paella, NFS
27450010	Crab salad
27450020	Lobster salad
27450030	Salmon salad
27450040	Shrimp chow mein or chop suey, no noodles
27450060	Tuna salad, made with mayonnaise
27450061	Tuna salad, made with light mayonnaise
27450062	Tuna salad, made with mayonnaise-type salad dressing
27450063	Tuna salad, made with light mayonnaise-type salad dressing
27450064	Tuna salad, made with creamy dressing
27450065	Tuna salad, made with light creamy dressing
27450066	Tuna salad, made with Italian dressing
27450067	Tuna salad, made with light Italian dressing
27450068	Tuna salad, made with any type of fat free dressing
27450070	Shrimp salad
27450080	Seafood salad
27450090	Tuna salad with cheese
27450100	Tuna salad with egg
27450110	Shrimp garden salad (shrimp, lettuce, eggs, tomato and/or carrots, other vegetables), no dressing
27450120	Shrimp garden salad (shrimp, lettuce, eggs, vegetables excluding tomato and carrots), no dressing
27450150	Fish, tofu, and vegetables, tempura, Hawaiian style (mixture)
27450400	Shrimp and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), no sauce (mixture)
27450405	Shrimp and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), no sauce (mixture)
27450410	Shrimp and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), soy-based sauce (mixture)



27450420	Shrimp and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), soy-based sauce (mixture)
27450430	Shrimp shish kabob with vegetables, excluding potatoes
27450450	Shrimp creole, no rice
27450470	Kung Pao shrimp
27450510	Tuna casserole with vegetables and (mushroom) soup, no noodles
27450600	Shellfish mixture and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), soy-based sauce
27450610	Shellfish mixture and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), soy-based sauce
27450700	Fish and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), tomato-based sauce (mixture)
27450710	Fish and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), tomato-based sauce (mixture)
27450740	Fish and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), soy-based sauce (mixture)
27450750	Fish and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), soy-based sauce (mixture)
27450760	Fish shish kabob with vegetables, excluding potatoes
27451010	Fried fish with sauce, Puerto Rican style (Pescado frito con mojo)
27451030	Lobster with sauce, Puerto Rican style (Langosta a la criolla)
27451060	Octopus salad, Puerto Rican style (Ensalada de pulpo)
27451070	Codfish salad, Puerto Rican style (Serenata)
27460010	Chow mein or chop suey, NS as to type of meat, no noodles
27460100	Lau lau (pork and fish wrapped in taro or spinach leaves)
28150210	Haddock with chopped spinach (diet frozen meal)
28150220	Flounder with chopped broccoli (diet frozen meal)
28150510	Fish in lemon-butter sauce with starch item, vegetable (frozen meal)

#### **Frozen Dairy Desserts**

#### **Ice Cream; Frozen Yogurt; Other Frozen Milk Desserts**

**[Peazazz and Peazac, as protein] = 8%**

11459990	Yogurt, frozen, NS as to flavor, NS as to type of milk
11460000	Yogurt, frozen, flavors other than chocolate, NS as to type of milk
11460100	Yogurt, frozen, chocolate, NS as to type of milk
11460150	Yogurt, frozen, NS as to flavor, lowfat milk
11460160	Yogurt, frozen, chocolate, lowfat milk
11460170	Yogurt, frozen, flavors other than chocolate, lowfat milk
11460190	Yogurt, frozen, NS as to flavor, nonfat milk
11460200	Yogurt, frozen, chocolate, nonfat milk
11460300	Yogurt, frozen, flavors other than chocolate, nonfat milk
11460400	Yogurt, frozen, chocolate, nonfat milk, with low-calorie sweetener
11460410	Yogurt, frozen, flavors other than chocolate, nonfat milk, with low-calorie sweetener
11460420	Yogurt, frozen, NS as to flavor, whole milk
11460430	Yogurt, frozen, chocolate, whole milk
11460440	Yogurt, frozen, flavors other than chocolate, whole milk
13110000	Ice cream, NFS
13110100	Ice cream, regular, flavors other than chocolate
13110110	Ice cream, regular, chocolate
13110120	Ice cream, rich, flavors other than chocolate



13110130	Ice cream, rich, chocolate
13110140	Ice cream, rich, NS as to flavor
13110200	Ice cream, soft serve, flavors other than chocolate
13110210	Ice cream, soft serve, chocolate
13110220	Ice cream, soft serve, NS as to flavor
13110310	Ice cream, no sugar added, NS as to flavor
13110320	Ice cream, no sugar added, flavors other than chocolate
13110330	Ice cream, no sugar added, chocolate
13120050	Ice cream bar or stick, not chocolate covered or cake covered
13120100	Ice cream bar or stick, chocolate covered
13120110	Ice cream bar or stick, chocolate or caramel covered, with nuts
13120130	Ice cream bar or stick, rich ice cream, chocolate covered, with nuts
13120300	Ice cream bar, cake covered
13120310	Ice cream bar, stick or nugget, with crunch coating
13120500	Ice cream sandwich
13120550	Ice cream cookie sandwich
13120710	Ice cream cone, chocolate covered, with nuts, flavors other than chocolate
13120750	Ice cream cone with nuts, chocolate ice cream
13120760	Ice cream cone, chocolate covered or dipped, chocolate ice cream
13120770	Ice cream cone, no topping, chocolate ice cream
13120780	Ice cream cone, chocolate covered, with nuts, chocolate ice cream
13120790	Ice cream sundae cone
13120800	Ice cream soda, flavors other than chocolate
13120810	Ice cream soda, chocolate
13121200	Ice cream sundae, prepackaged type, flavors other than chocolate
13121500	Ice cream sundae, fudge topping, with cake, with whipped cream
13122100	Ice cream pie, no crust
13122500	Ice cream pie, with cookie crust, fudge topping, and whipped cream
13127000	Dippin' Dots, flash frozen ice cream snacks, flavors other than chocolate
13127010	Dippin' Dots, flash frozen ice cream snacks, chocolate
13130100	Light ice cream, NS as to flavor (formerly ice milk)
13130300	Light ice cream, flavors other than chocolate (formerly ice milk)
13130310	Light ice cream, chocolate (formerly ice milk)
13130320	Light ice cream, no sugar added, NS as to flavor
13130330	Light ice cream, no sugar added, flavors other than chocolate
13130340	Light ice cream, no sugar added, chocolate
13130590	Light ice cream, soft serve, NS as to flavor (formerly ice milk)
13130600	Light ice cream, soft serve, flavors other than chocolate (formerly ice milk)
13130610	Light ice cream, soft serve, chocolate (formerly ice milk)
13130620	Light ice cream, soft serve cone, flavors other than chocolate (formerly ice milk)
13130630	Light ice cream, soft serve cone, chocolate (formerly ice milk)
13130640	Light ice cream, soft serve cone, NS as to flavor (formerly ice milk)
13130700	Light ice cream, soft serve, blended with candy or cookies
13135000	Ice cream sandwich, made with light ice cream, flavors other than chocolate
13136000	Ice cream sandwich, made with light, no sugar added ice cream
13140450	Light ice cream, cone, NFS (formerly ice milk)
13140570	Light ice cream, no sugar added, cone, NS as to flavor
13140575	Light ice cream, no sugar added, cone, flavors other than chocolate
13140700	Light ice cream, creamsicle or dreamsicle (formerly ice milk)
13142000	Milk dessert bar or stick, frozen, with coconut
13160150	Fat free ice cream, no sugar added, chocolate
13160160	Fat free ice cream, no sugar added, flavors other than chocolate



13160400	Fat free ice cream, flavors other than chocolate
13160410	Fat free ice cream, chocolate
13160420	Fat free ice cream, NS as to flavor
13161000	Milk dessert bar, frozen, made from lowfat milk
13161600	Milk dessert bar, frozen, made from lowfat milk and low calorie sweetener
13161630	Light ice cream, bar or stick, with low-calorie sweetener, chocolate-coated (formerly ice milk)

**Mixture containing ice cream, frozen yogurt, or other frozen milk desserts**

(Adjusted for an ice cream, frozen yogurt, or other frozen milk dessert content of 25 to 96%)

**[Peazz and Pezac, as protein] = 2 to 7.68%**

13140900	Light ice cream, fudgesicle (formerly ice milk)
13120730	Ice cream cone, no topping, flavors other than chocolate
11461270	Yogurt, frozen, cone, flavors other than chocolate, lowfat milk
11461280	Yogurt, frozen, cone, chocolate, lowfat milk
13140500	Light ice cream, cone, flavors other than chocolate (formerly ice milk)
11461260	Yogurt, frozen, cone, flavors other than chocolate
13140110	Light ice cream, bar or stick, chocolate covered, with nuts (formerly ice milk)
13120720	Ice cream cone, chocolate covered or dipped, flavors other than chocolate
13120700	Ice cream cone with nuts, flavors other than chocolate
11461250	Yogurt, frozen, cone, chocolate
13126000	Ice cream, fried
13140100	Light ice cream, bar or stick, chocolate-coated (formerly ice milk)
13140550	Light ice cream, cone, chocolate (formerly ice milk)
13140580	Light ice cream, no sugar added, cone, chocolate
13120140	Ice cream bar or stick, chocolate ice cream, chocolate covered
11461000	Yogurt, frozen, chocolate-coated
11461200	Yogurt, frozen, sandwich
13135010	Ice cream sandwich, made with light chocolate ice cream
13161500	Milk dessert sandwich bar, frozen, made from lowfat milk
13140660	Light ice cream, sundae, soft serve, chocolate or fudge topping (without whipped cream) (formerly ice milk)
13140670	Light ice cream, sundae, soft serve, fruit topping (without whipped cream) (formerly ice milk)
13140680	Light ice cream, sundae, soft serve, not fruit or chocolate topping (without whipped cream) (formerly ice milk)
11460250	Yogurt, frozen, flavors other than chocolate, with sorbet or sorbet-coated
13120121	Ice cream bar or stick, rich ice cream, thick chocolate covering
13120120	Ice cream bar or stick, rich chocolate ice cream, thick chocolate covering
13121000	Ice cream sundae, NS as to topping, with whipped cream
13120400	Ice cream bar or stick with fruit
13140650	Light ice cream, sundae, soft serve, not fruit or chocolate topping, with whipped cream (formerly ice milk)
13121100	Ice cream sundae, fruit topping, with whipped cream
13121300	Ice cream sundae, chocolate or fudge topping, with whipped cream
13121400	Ice cream sundae, not fruit or chocolate topping, with whipped cream
13170000	Baked Alaska
13140600	Light ice cream, sundae, soft serve, chocolate or fudge topping, with whipped cream (formerly ice milk)
13140630	Light ice cream, sundae, soft serve, fruit topping, with whipped cream (formerly ice milk)
13120740	Ice cream cone, no topping, NS as to flavor
13161520	Milk dessert sandwich bar, frozen, with low-calorie sweetener, made from lowfat milk
13140710	Light ice cream, creamsicle or dreamsicle, no sugar added





## **Fruit and Water Ices**

### **Edible Ices, Sherbet, and Sorbet**

**[Peazazz and Peazac, as protein] = 1%**

13150000	Sherbet, all flavors
63430100	Sorbet, fruit, noncitrus flavor
63430110	Sorbet, fruit, citrus flavor
91601000	Ice, fruit
91611000	Ice pop
91611050	Ice pop filled with ice cream, all flavor varieties
91611100	Ice pop, sweetened with low calorie sweetener
91621000	Snow cone

## **Gelatins, Puddings, and Fillings**

### **Flans, Custards, and Other Egg-Based Desserts**

**[Peazazz and Peazac, as protein] = 5%**

32120100	Egg dessert, custard-like, made with water and sugar, Puerto Rican style (Tocino del cielo; Heaven's delight)
32120200	Zabaglione
91550300	Pineapple custard, Puerto Rican style (Flan de pina)

### **Puddings and Other Milk-Based Desserts**

**[Peazazz and Peazac, as protein] = 4%**

13210150	Puerto Rican bread pudding made with evaporated milk
58149110	Noodle pudding
58149160	Noodle pudding, with milk
58157110	Spicy rice pudding, Puerto Rican style
58157210	Rice pudding made with coconut milk, Puerto Rican style

## **Grain Products and Pastas**

### **Cereal and Granola Bars**

**[Peazazz and Peazac, as protein] = 15%**

53710400	Fiber One Chewy Bar
53710500	Kellogg's Nutri-Grain Cereal Bar
53710502	Kellogg's Nutri-Grain Yogurt Bar
53710504	Kellogg's Nutri-Grain Fruit and Nut Bar
53710600	Milk 'n Cereal bar
53710700	Kellogg's Special K bar
53710800	Kashi GOLEAN Chewy Bars
53710802	Kashi TLC Chewy Granola Bar
53710804	Kashi GOLEAN Crunchy Bars
53710806	Kashi TLC Crunchy Granola Bar
53710900	Nature Valley Chewy Trail Mix Granola Bar
53710902	Nature Valley Chewy Granola Bar with Yogurt Coating
53710904	Nature Valley Sweet and Salty Granola Bar
53710906	Nature Valley Crunchy Granola Bar



53711000	Quaker Chewy Granola Bar
53711002	Quaker Chewy 90 Calorie Granola Bar
53711004	Quaker Chewy 25% Less Sugar Granola Bar
53711006	Quaker Chewy Dipp's Granola Bar
53711100	Quaker Granola Bites
53712000	Snack bar, oatmeal
53712100	Granola bar, NFS
53712200	Granola bar, lowfat, NFS
53712210	Granola bar, nonfat
53713000	Granola bar, reduced sugar, NFS
53713100	Granola bar, peanuts , oats, sugar, wheat germ
53714200	Granola bar, chocolate-coated, NFS
53714210	Granola bar, with coconut, chocolate-coated
53714220	Granola bar with nuts, chocolate-coated
53714230	Granola bar, oats, nuts, coated with non-chocolate coating
53714250	Granola bar, coated with non-chocolate coating
53714300	Granola bar, high fiber, coated with non-chocolate yogurt coating
53714400	Granola bar, with rice cereal
53720200	Clif Bar
53720210	Clif Kids Organic Zbar

#### **Energy Bars or Protein Bars; Meal Replacement Bars**

**[Peazazz and Peazac, as protein] = 35%**

53714500	Breakfast bar, NFS
53714510	Breakfast bar, date, with yogurt coating
53714520	Breakfast bar, cereal crust with fruit filling, lowfat
53720100	Balance Original Bar
53720300	PowerBar
53720400	Slim Fast Original Meal Bar
53720500	Snickers Marathon Protein bar
53720600	South Beach Living Meal Bar
53720610	South Beach Living High Protein Bar
53720700	Tiger's Milk bar
53720800	Zone Perfect Classic Crunch nutrition bar
53729000	Nutrition bar or meal replacement bar, NFS

#### **Macaroni and Noodle Products**

**[Peazazz and Peazac, as protein] = 2%**

27212400	Beef and noodles with (mushroom) soup (mixture)
27242250	Chicken or turkey and noodles with (mushroom) soup (mixture)
27250110	Scallops and noodles with cheese sauce (mixture)
27250120	Shrimp and noodles, no sauce (mixture)
27250122	Shrimp and noodles with gravy (mixture)
27250126	Shrimp and noodles with cream or white sauce (mixture)
27250128	Shrimp and noodles with soy-based sauce (mixture)
27250130	Shrimp and noodles with cheese sauce (mixture)
27250132	Shrimp and noodles with tomato sauce (mixture)
27250900	Fish and noodles with (mushroom) soup
27250950	Shellfish mixture and noodles, tomato-based sauce (mixture)
27350050	Shrimp chow mein or chop suey with noodles



27360080	Chow mein or chop suey, NS as to type of meat, with noodles
27360120	Chow mein or chop suey, various types of meat, with noodles
28153010	Shrimp and clams in tomato-based sauce, with noodles (frozen meal)
28154010	Shrimp and vegetables in sauce with noodles (diet frozen meal)
56103000	Macaroni, cooked, spinach, NS as to fat added in cooking
56103010	Macaroni, cooked, spinach, fat not added in cooking
56103020	Macaroni, cooked, spinach, fat added in cooking
56104000	Macaroni, cooked, vegetable, NS as to fat added in cooking
56104010	Macaroni, cooked, vegetable, fat not added in cooking
56104020	Macaroni, cooked, vegetable, fat added in cooking
56113990	Noodles, cooked, spinach, NS as to fat added in cooking
56114000	Noodles, cooked, spinach, fat not added in cooking
56114020	Noodles, cooked, spinach, fat added in cooking
56116990	Long rice noodles (made from mung beans) cooked, NS as to fat added in cooking
56117000	Long rice noodles (made from mung beans), cooked, fat not added in cooking
56117010	Long rice noodles (made from mung beans), cooked, fat added in cooking
56117090	Chow fun rice noodles, cooked, NS as to fat added in cooking
56117100	Chow fun rice noodles, cooked, fat not added in cooking
56117110	Chow fun rice noodles, cooked, fat added in cooking
58130610	Lasagna with meat, whole wheat noodles
58130810	Lasagna, meatless, whole wheat noodles
58130910	Lasagna with meat, spinach noodles
58130950	Lasagna, meatless, spinach noodles
58131110	Ravioli, NS as to filling, with tomato sauce
58131120	Ravioli, NS as to filling, with cream sauce
58131320	Ravioli, meat-filled, with tomato sauce or meat sauce
58131323	Ravioli, meat-filled, with tomato sauce or meat sauce, canned
58131330	Ravioli, meat-filled, with cream sauce
58131520	Ravioli, cheese-filled, with tomato sauce
58131523	Ravioli, cheese-filled, with tomato sauce, canned
58131530	Ravioli, cheese-filled, with meat sauce
58131535	Ravioli, cheese-filled, with cream sauce
58131590	Ravioli, cheese and spinach-filled, no sauce
58131600	Ravioli, cheese and spinach-filled, with cream sauce
58131610	Ravioli, cheese and spinach filled, with tomato sauce
58132110	Spaghetti with tomato sauce, meatless
58132113	Pasta with tomato sauce and cheese, canned
58132310	Spaghetti with tomato sauce and meatballs or spaghetti with meat sauce or spaghetti with meat sauce and meatballs
58132313	Pasta with tomato sauce and meat or meatballs, canned
58132340	Spaghetti with tomato sauce and vegetables
58132350	Spaghetti with tomato sauce, meatless, whole wheat noodles
58132360	Spaghetti with tomato sauce and meatballs, whole wheat noodles or spaghetti with meat sauce, whole wheat noodles or spaghetti with meat sauce and meatballs, whole wheat noodles
58132450	Spaghetti with tomato sauce, meatless, made with spinach noodles
58132460	Spaghetti with tomato sauce and meatballs made with spinach noodles, or spaghetti with meat sauce made with spinach noodles, or spaghetti with meat sauce and meatballs made with spinach noodles
58132710	Spaghetti with tomato sauce and frankfurters or hot dogs
58132713	Pasta with tomato sauce and frankfurters or hot dogs, canned
58132800	Spaghetti with clam sauce, NS as to red or white
58132810	Spaghetti with red clam sauce
58132820	Spaghetti with white clam sauce



58132910	Spaghetti with tomato sauce and poultry
58133110	Manicotti, cheese-filled, no sauce
58133120	Manicotti, cheese-filled, with tomato sauce, meatless
58133130	Manicotti, cheese-filled, with meat sauce
58133140	Manicotti, vegetable- and cheese-filled, with tomato sauce, meatless
58134120	Stuffed shells, cheese-filled, with tomato sauce, meatless
58134130	Stuffed shells, cheese-filled, with meat sauce
58134160	Stuffed shells, cheese- and spinach- filled, no sauce
58134210	Stuffed shells, with chicken, with tomato sauce
58134310	Stuffed shells, with fish and/or shellfish, with tomato sauce
58134610	Tortellini, meat-filled, with tomato sauce
58134613	Tortellini, meat-filled, with tomato sauce, canned
58134620	Tortellini, cheese-filled, meatless, with tomato sauce
58134623	Tortellini, cheese-filled, meatless, with tomato sauce, canned
58134630	Tortellini, cheese-filled, meatless, with vegetables and vinaigrette dressing
58134640	Tortellini, cheese-filled, meatless, with vinaigrette dressing
58134660	Tortellini, cheese-filled, with cream sauce
58134710	Tortellini, spinach-filled, with tomato sauce
58134810	Cannelloni, cheese- and spinach-filled, no sauce
58135110	Chow fun noodles with meat and vegetables
58135120	Chow fun noodles with vegetables, meatless
58136110	Lo mein, NFS
58136120	Lo mein, meatless
58136130	Lo mein, with shrimp
58136140	Lo mein, with pork
58136150	Lo mein, with beef
58136160	Lo mein, with chicken
58137210	Pad Thai, NFS
58137220	Pad Thai, meatless
58137230	Pad Thai with chicken
58137240	Pad Thai with seafood
58137250	Pad Thai with meat
58137300	Adobo (Filipino dish) with noodles
58140110	Spaghetti with corned beef, Puerto Rican style
58140310	Macaroni with tuna, Puerto Rican style (Macarrones con atun)
58145110	Macaroni or noodles with cheese
58145112	Macaroni or noodles with cheese, made from packaged mix
58145113	Macaroni or noodles with cheese, canned
58145117	Macaroni or noodles with cheese, Easy Mac type
58145119	Macaroni or noodles with cheese, made from reduced fat packaged mix
58145120	Macaroni or noodles with cheese and tuna
58145135	Macaroni or noodles with cheese and meat
58145136	Macaroni or noodles with cheese and meat, prepared from Hamburger Helper mix
58145140	Macaroni or noodles with cheese and tomato
58145160	Macaroni or noodles with cheese and frankfurters or hot dogs
58145170	Macaroni or noodles with cheese and egg
58145190	Macaroni or noodles with cheese and chicken or turkey
58146100	Pasta with tomato sauce, meatless
58146110	Pasta with meat sauce
58146120	Pasta with cheese and meat sauce
58146130	Pasta with carbonara sauce
58146150	Pasta with cheese and tomato sauce, meatless



58146160	Pasta with vegetables, no sauce or dressing
58146200	Pasta, meat-filled, with gravy, canned
58146300	Pasta, whole wheat, with meat sauce
58146310	Pasta, whole wheat, with tomato sauce, meatless
58147100	Pasta with pesto sauce
58147110	Macaroni or noodles with beans or lentils and tomato sauce
58147310	Macaroni, creamed
58147330	Macaroni or noodles, creamed, with cheese
58147340	Macaroni or noodles, creamed, with cheese and tuna
58147350	Macaroni, creamed, with vegetables
58147510	Flavored pasta
58147520	Yat Ga Mein with meat, fish, or poultry
58148110	Macaroni or pasta salad, made with mayonnaise
58148111	Macaroni or pasta salad, made with light mayonnaise
58148112	Macaroni or pasta salad, made with mayonnaise-type salad dressing
58148113	Macaroni or pasta salad, made with light mayonnaise-type salad dressing
58148114	Macaroni or pasta salad, made with Italian dressing
58148115	Macaroni or pasta salad, made with light Italian dressing
58148116	Macaroni or pasta salad, made with creamy dressing
58148117	Macaroni or pasta salad, made with light creamy dressing
58148118	Macaroni or pasta salad, made with any type of fat free dressing
58148120	Macaroni or pasta salad with egg
58148130	Macaroni or pasta salad with tuna
58148140	Macaroni or pasta salad with crab meat
58148150	Macaroni or pasta salad with shrimp
58148160	Macaroni or pasta salad with tuna and egg
58148170	Macaroni or pasta salad with chicken
58148180	Macaroni or pasta salad with cheese
58148550	Macaroni or pasta salad with meat
58148600	Pasta tetrazzini, dry mix, prepared with water
58149210	Somen salad with noodles, lettuce, egg, fish, and pork
58163380	Flavored rice and pasta mixture
58163400	Flavored rice and pasta mixture, reduced sodium
58302000	Macaroni and cheese (diet frozen meal)
58302050	Beef and noodles with meat sauce and cheese (diet frozen meal)
58302080	Noodles with vegetables in tomato-based sauce (diet frozen meal)
58304010	Spaghetti and meatballs dinner, NFS (frozen meal)
58304020	Spaghetti and meatballs with tomato sauce, sliced apples, bread (frozen meal)
58304050	Spaghetti with meat and mushroom sauce (diet frozen meal)
58304060	Spaghetti with meat sauce (diet frozen meal)
58304200	Ravioli, cheese-filled, with tomato sauce (diet frozen meal)
58304220	Rigatoni with meat sauce and cheese (diet frozen meal)
58304250	Manicotti, cheese-filled, with tomato sauce (diet frozen meal)
58304300	Cannelloni, cheese-filled, with tomato sauce (diet frozen meal)
58304400	Linguini with vegetables and seafood in white wine sauce (diet frozen meal)
58305250	Pasta with vegetable and cheese sauce (diet frozen meal)
58421010	Sopa Seca de Fideo, Mexican style, made with dry noodles, home recipe
72202010	Broccoli casserole (broccoli, noodles, and cream sauce)
75340160	Vegetable and pasta combinations with cream or cheese sauce (broccoli, pasta, carrots, corn, zucchini, peppers, cauliflower, peas, etc.), cooked
75460700	Vegetable combinations (including carrots, broccoli, and/or dark-green leafy), cooked, with pasta
75460710	Vegetable combinations (excluding carrots, broccoli, and dark-green leafy), cooked, with pasta



- 75460800 Vegetable combinations (including carrots, broccoli, and/or dark-green leafy), cooked, with butter sauce and pasta
- 75460810 Vegetable combinations (excluding carrots, broccoli, and dark-green leafy), cooked, with butter sauce and pasta
- 75460900 Chow mein or chop suey, meatless, with noodles

**Macaroni and Noodle Products, gluten free**

**[Peazazz and Peazac, as protein] = 4%**

- 56140100 Pasta, gluten free

**Gravies and Sauces**

**Tomato-Based Sauces**

**[Peazazz and Peazac, as protein] = 1%**

- 74404090 Vodka flavored pasta sauce made with tomatoes and cream

**White Sauces**

**[Peazazz and Peazac, as protein] = 4%**

- 13411000 White sauce, milk sauce
- 14650160 Alfredo sauce

**Meat Products**

**Meat-Based Entrees**

**[Peazazz and Peazac, as protein] = 5%**

- 27111000 Beef with tomato-based sauce (mixture)
- 27111050 Spaghetti sauce with beef or meat other than lamb or mutton, homemade
- 27111100 Beef goulash
- 27111200 Beef burgundy (beef bourguignonne)
- 27111300 Mexican style beef stew, no potatoes, tomato-based sauce (mixture) (Carne guisada sin papas)
- 27111310 Mexican style beef stew, no potatoes, with chili peppers, tomato-based sauce (mixture) (Carne guisada con chile)
- 27111400 Chili con carne, NS as to beans
- 27111406 Chili con carne with beans, home recipe
- 27111407 Chili con carne with beans, canned
- 27111410 Chili con carne with beans
- 27111420 Chili con carne without beans
- 27111430 Chili con carne, NS as to beans, with cheese
- 27111440 Chili con carne with beans and cheese
- 27111500 Beef sloppy joe (no bun)
- 27112000 Beef with gravy (mixture)
- 27112010 Salisbury steak with gravy (mixture)
- 27113000 Beef with cream or white sauce (mixture)
- 27113100 Beef stroganoff
- 27113200 Creamed chipped or dried beef
- 27113300 Swedish meatballs with cream or white sauce (mixture)
- 27115000 Beef with soy-based sauce (mixture)
- 27115100 Steak teriyaki with sauce (mixture)



27116100	Beef curry
27116200	Beef with barbecue sauce (mixture)
27116300	Beef with sweet and sour sauce (mixture)
27116350	Stewed, seasoned, ground beef, Mexican style (Picadillo de carne de rez)
27116400	Steak tartare (raw ground beef and egg)
27118110	Meatballs, Puerto Rican style (Albondigas guisadas)
27118120	Stewed seasoned ground beef, Puerto Rican style (Picadillo guisado, picadillo de carne)
27118130	Stewed dried beef, Puerto Rican style (Tasajo guisado, carne cecina guisada)
27118140	Stuffed pot roast, Puerto Rican style, NFS (assume with gravy and stuffing)
27118180	Puerto Rican style beef stew, meat with gravy (potatoes reported separately)
27120020	Ham or pork with gravy (mixture)
27120030	Ham or pork with barbecue sauce (mixture)
27120060	Sweet and sour pork
27120080	Ham stroganoff
27120100	Ham or pork with tomato-based sauce (mixture)
27120110	Sausage with tomato-based sauce (mixture)
27120120	Sausage gravy
27120130	Mexican style pork stew, no potatoes, tomato-based sauce (mixture) (cerdo guisado sin papas)
27120150	Pork or ham with soy-based sauce (mixture)
27120160	Pork curry
27120210	Frankfurter or hot dog, with chili, no bun
27120250	Frankfurters or hot dogs with tomato-based sauce (mixture)
27121000	Pork with chili and tomatoes (mixture) (Puerco con chile)
27121010	Stewed pork, Puerto Rican style
27121410	Chili con carne with beans, made with pork
27130010	Lamb or mutton with gravy (mixture)
27130040	Spaghetti sauce with lamb or mutton, homemade
27130050	Lamb or mutton goulash
27130100	Lamb or mutton curry
27133010	Stewed goat, Puerto Rican style (Cabrito en fricase, chilindron de chivo)
27135010	Veal with gravy (mixture)
27135020	Veal scallopini
27135030	Veal with cream sauce (mixture)
27135040	Veal with butter sauce (mixture)
27135050	Veal Marsala
27135110	Veal parmigiana
27135150	Veal cordon bleu
27136050	Venison/deer with tomato-based sauce (mixture)
27136080	Venison/deer with gravy (mixture)
27136100	Chili con carne with venison/deer and beans
27141000	Chicken or turkey cacciatore
27141030	Spaghetti sauce with poultry, homemade
27141050	Stewed chicken with tomato-based sauce, Mexican style (mixture) (Pollo guisado con tomate)
27141500	Chili con carne with chicken or turkey and beans
27142000	Chicken with gravy (mixture)
27142100	Chicken or turkey fricassee
27142200	Turkey with gravy (mixture)
27143000	Chicken or turkey with cream sauce (mixture)
27145000	Chicken or turkey teriyaki (chicken or turkey with soy-based sauce)
27146000	Chicken or turkey with barbecue sauce, skin eaten
27146010	Chicken or turkey with barbecue sauce, skin not eaten
27146050	Chicken wing with hot pepper sauce



27146100	Sweet and sour chicken or turkey
27146110	Sweet and sour chicken or turkey, without vegetables
27146150	Chicken curry
27146160	Chicken with mole sauce
27146200	Chicken or turkey with cheese sauce (mixture)
27146250	Chicken or turkey cordon bleu
27146300	Chicken or turkey parmigiana
27146350	Orange chicken
27146360	Sesame chicken
27146400	Chicken kiev
27148010	Stuffed chicken, drumstick or breast, Puerto Rican style (Muslo de pollo o pechuga rellena)
27160010	Meat with barbecue sauce, NS as to type of meat (mixture)
27160100	Meatballs, NS as to type of meat, with sauce (mixture)
27161010	Puerto Rican style meat loaf (Albondigon)
27162010	Meat with tomato-based sauce (mixture)
27162050	Spaghetti sauce with combination of meats, homemade
27162060	Spaghetti sauce with meat and vegetables, homemade
27162500	Stewed, seasoned, ground beef and pork, Mexican style (Picadillo de carne de rez y puerco)
27163010	Meat with gravy, NS as to type of meat (mixture)
27211000	Beef and potatoes, no sauce (mixture)
27211100	Beef stew with potatoes, tomato-based sauce (mixture)
27211110	Mexican style beef stew with potatoes, tomato-based sauce (mixture) (Carne guisada con papas)
27211150	Beef goulash with potatoes
27211190	Beef and potatoes with cream sauce, white sauce or mushroom soup-based sauce (mixture)
27211200	Beef stew with potatoes, gravy
27211300	Beef (roast) hash
27211400	Corned beef hash
27211500	Beef and potatoes with cheese sauce (mixture)
27211550	Stewed, seasoned, ground beef with potatoes, Mexican style (Picadillo de carne de rez con papas)
27212000	Beef and noodles, no sauce (mixture)
27212050	Beef and macaroni with cheese sauce (mixture)
27212100	Beef and noodles with tomato-based sauce (mixture)
27212120	Chili con carne with beans and macaroni
27212150	Beef goulash with noodles
27212200	Beef and noodles with gravy (mixture)
27212300	Beef and noodles with cream or white sauce (mixture)
27212350	Beef stroganoff with noodles
27212500	Beef and noodles with soy-based sauce (mixture)
27213000	Beef and rice, no sauce (mixture)
27213010	Biryani with meat
27213100	Beef and rice with tomato-based sauce (mixture)
27213120	Porcupine balls with tomato-based sauce (mixture)
27213150	Chili con carne with beans and rice
27213200	Beef and rice with gravy (mixture)
27213300	Beef and rice with cream sauce (mixture)
27213420	Porcupine balls with (mushroom) soup (mixture)
27213500	Beef and rice with soy-based sauce (mixture)
27213600	Beef and rice with cheese sauce (mixture)
27214100	Meat loaf made with beef
27214110	Meat loaf made with beef, with tomato-based sauce
27214300	Beef wellington
27214500	Corned beef patty





27214600	Creamed dried beef on toast
27218110	Puerto Rican style stuffed pot roast (larded meat) with potatoes (Carne mechada con papas boliche)
27218210	Puerto Rican style beef stew with potatoes (Carne guisada con papas)
27218310	Stewed corned beef, Puerto Rican style ("Corned beef" guisado)
27220010	Meat loaf made with ham (not luncheon meat)
27220020	Ham and noodles with cream or white sauce (mixture)
27220050	Ham or pork with stuffing (mixture)
27220080	Ham croquette
27220110	Pork and rice with tomato-based sauce (mixture)
27220120	Sausage and rice with tomato-based sauce (mixture)
27220170	Sausage and rice with cheese sauce (mixture)
27220190	Sausage and noodles with cream or white sauce (mixture)
27220210	Ham and noodles, no sauce (mixture)
27220310	Ham or pork and rice, no sauce (mixture)
27220510	Ham or pork and potatoes with gravy (mixture)
27220520	Ham or pork and potatoes with cheese sauce (mixture)
27221100	Stewed pig's feet, Puerto Rican style (Patitas de cerdo guisadas)
27221110	Stuffed pork roast, Puerto Rican style
27221150	Mexican style pork stew, with potatoes, tomato-based sauce (mixture) (cerdo guisado con papas)
27230010	Lamb or mutton loaf
27231000	Lamb or mutton and potatoes with gravy (mixture)
27232000	Lamb or mutton and potatoes with tomato-based sauce (mixture)
27233000	Lamb or mutton and noodles with gravy (mixture)
27235000	Meat loaf made with venison/deer
27235750	Veal and noodles with cream or white sauce (mixture)
27236000	Venison/deer and noodles with cream or white sauce (mixture)
27241000	Chicken or turkey hash
27241010	Chicken or turkey and potatoes with gravy (mixture)
27242000	Chicken or turkey and noodles, no sauce (mixture)
27242200	Chicken or turkey and noodles with gravy (mixture)
27242300	Chicken or turkey and noodles with cream or white sauce (mixture)
27242310	Chicken or turkey and noodles with cheese sauce (mixture)
27242350	Chicken or turkey tetrazzini
27242400	Chicken or turkey and noodles, tomato-based sauce (mixture)
27242500	Chicken or turkey and noodles with soy-based sauce (mixture)
27243000	Chicken or turkey and rice, no sauce (mixture)
27243100	Biryani with chicken
27243300	Chicken or turkey and rice with cream sauce (mixture)
27243500	Chicken or turkey and rice with tomato-based sauce (mixture)
27243600	Chicken or turkey and rice with soy-based sauce (mixture)
27243700	Chicken in cheese sauce with Spanish rice
27246100	Chicken or turkey with dumplings (mixture)
27246200	Chicken or turkey with stuffing (mixture)
27246300	Chicken or turkey cake, patty, or croquette
27246400	Chicken or turkey souffle
27246500	Meat loaf made with chicken or turkey
27246505	Meat loaf made with chicken or turkey, with tomato-based sauce
27260010	Meat loaf, NS as to type of meat
27260050	Meatballs, with breading, NS as to type of meat, with gravy
27260080	Meat loaf made with beef and pork
27260090	Meat loaf made with beef, veal and pork
27260100	Meat loaf made with beef and pork, with tomato-based sauce



27260110	Hash, NS as to type of meat
27260500	Vienna sausages stewed with potatoes, Puerto Rican style (Salchichas guisadas)
27260510	Liver dumpling
27261000	Breaded brains, Puerto Rican style (Sesos rebosados)
27261500	Stewed, seasoned, ground beef and pork, with potatoes, Mexican style (Picadillo de carne de rez y puerco con papas)
27311110	Beef, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), no sauce (mixture)
27311120	Beef, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), no sauce (mixture)
27311210	Corned beef, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), no sauce (mixture)
27311220	Corned beef, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), no sauce (mixture)
27311310	Beef stew with potatoes and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce
27311320	Beef stew with potatoes and vegetables (excluding carrots, broccoli, and dark-green leafy), tomato-based sauce
27311410	Beef stew with potatoes and vegetables (including carrots, broccoli, and/or dark-green leafy), gravy
27311420	Beef stew with potatoes and vegetables (excluding carrots, broccoli, and dark-green leafy), gravy
27311510	Shepherd's pie with beef
27311600	Beef, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), gravy (mixture)
27311605	Beef, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), gravy (mixture)
27311610	Beef, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), cream sauce, white sauce, or mushroom soup-based sauce (mixture)
27311620	Beef, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), cream sauce, white sauce, or mushroom soup-based sauce (mixture)
27311625	Beef, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce (mixture)
27311630	Beef, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), tomato-based sauce (mixture)
27311635	Beef, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), cheese sauce (mixture)
27311640	Beef, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), cheese sauce (mixture)
27311645	Beef, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), soy-based sauce (mixture)
27311650	Beef, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), soy-based sauce (mixture)
27313010	Beef, noodles, and vegetables (including carrots, broccoli, and/or dark-green leafy), no sauce (mixture)
27313020	Beef, noodles, and vegetables (excluding carrots, broccoli, and dark-green leafy), no sauce (mixture)
27313110	Beef chow mein or chop suey with noodles
27313150	Beef, noodles, and vegetables (including carrots, broccoli, and/or dark-green leafy), soy-based sauce (mixture)
27313160	Beef, noodles, and vegetables (excluding carrots, broccoli, and dark-green leafy), soy-based sauce (mixture)
27313210	Beef, noodles, and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce (mixture)
27313220	Beef, noodles, and vegetables (excluding carrots, broccoli, and dark-green leafy), tomato-based sauce (mixture)
27313310	Beef, noodles, and vegetables (including carrots, broccoli, and/or dark-green leafy), (mushroom) soup (mixture)



27313320	Beef, noodles, and vegetables (excluding carrots, broccoli, and dark-green leafy), (mushroom) soup (mixture)
27313410	Beef, noodles, and vegetables (including carrots, broccoli, and/or dark-green leafy), gravy (mixture)
27313420	Beef, noodles, and vegetables (excluding carrots, broccoli, and dark-green leafy), gravy (mixture)
27315010	Beef, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), no sauce (mixture)
27315020	Beef, rice, and vegetables (excluding carrots, broccoli, and dark-green leafy), no sauce (mixture)
27315210	Beef, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce (mixture)
27315220	Beef, rice, and vegetables (excluding carrots, broccoli, and/or dark-green leafy), tomato-based sauce (mixture)
27315250	Stuffed cabbage rolls with beef and rice
27315270	Stuffed grape leaves with beef and rice
27315310	Beef, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), (mushroom) soup (mixture)
27315320	Beef, rice, and vegetables (excluding carrots, broccoli, and dark-green leafy), (mushroom) soup (mixture)
27315330	Beef, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), cheese sauce (mixture)
27315340	Beef, rice, and vegetables (excluding carrots, broccoli, and dark-green leafy), cheese sauce (mixture)
27315410	Beef, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), gravy (mixture)
27315420	Beef, rice, and vegetables (excluding carrots, broccoli, and dark-green leafy), gravy (mixture)
27315510	Beef, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), soy-based sauce (mixture)
27315520	Beef, rice, and vegetables (excluding carrots, broccoli, and dark-green leafy), soy-based sauce (mixture)
27317010	Beef pot pie
27317100	Beef, dumplings, and vegetables (including carrots, broccoli, and/or dark-green leafy), gravy (mixture)
27317110	Beef, dumplings, and vegetables (excluding carrots, broccoli, and dark-green leafy), gravy (mixture)
27319010	Stuffed green pepper, Puerto Rican style (Pimiento relleno)
27320020	Ham pot pie
27320025	Ham or pork, noodles and vegetables (excluding carrots, broccoli, and dark-green leafy), no sauce (mixture)
27320027	Ham or pork, noodles, and vegetables (including carrots, broccoli, and/or dark-green leafy), no sauce (mixture)
27320030	Ham or pork, noodles and vegetables (excluding carrots, broccoli, and dark-green leafy), cheese sauce (mixture)
27320040	Pork, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), no sauce (mixture)
27320070	Ham or pork, noodles, and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce (mixture)
27320080	Sausage, noodles, and vegetables (excluding carrots, broccoli, and dark-green leafy), tomato-based sauce
27320090	Sausage, noodles, and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce
27320100	Pork, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce (mixture)
27320110	Pork, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), tomato-based sauce (mixture)
27320120	Sausage, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), gravy (mixture)
27320130	Sausage, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), gravy (mixture)
27320140	Pork, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), gravy (mixture)



27320150	Pork, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), gravy (mixture)
27320210	Pork, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), no sauce (mixture)
27320310	Pork chow mein or chop suey with noodles
27320320	Pork, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), soy-based sauce (mixture)
27320330	Pork, rice, and vegetables (excluding carrots, broccoli, and dark-green leafy), soy-based sauce (mixture)
27320340	Pork, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce (mixture)
27320350	Pork, rice, and vegetables (excluding carrots, broccoli, and dark-green leafy), tomato-based sauce (mixture)
27320410	Ham, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), no sauce (mixture)
27320450	Ham, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), no sauce (mixture)
27320500	Sweet and sour pork with rice
27330010	Shepherd's pie with lamb
27330030	Lamb or mutton stew with potatoes and vegetables (including carrots, broccoli, and/or dark-green leafy), gravy
27330050	Lamb or mutton, rice, and vegetables (excluding carrots, broccoli, and dark-green leafy), gravy (mixture)
27330060	Lamb or mutton, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce (mixture)
27330080	Lamb or mutton, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), gravy
27330110	Lamb or mutton stew with potatoes and vegetables (excluding carrots, broccoli, and dark-green leafy), gravy
27330170	Stuffed grape leaves with lamb and rice
27330210	Lamb or mutton stew with potatoes and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce
27330220	Lamb or mutton stew with potatoes and vegetables (excluding carrots, broccoli, and dark-green leafy), tomato-based sauce
27331150	Veal fricassee, Puerto Rican style (ternera en fricase)
27332100	Veal stew with potatoes and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce
27332110	Veal stew with potatoes and vegetables (excluding carrots, broccoli, and/or dark-green leafy), tomato-based sauce
27335100	Rabbit stew with potatoes and vegetables
27335500	Stewed rabbit, Puerto Rican style (Fricase de conejo)
27336100	Venison/deer stew with potatoes and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce
27336150	Venison/deer stew with potatoes and vegetables (excluding carrots, broccoli, and dark-green leafy), tomato-based sauce
27336200	Venison/deer, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), gravy (mixture)
27336250	Venison/deer, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), gravy (mixture)
27336300	Venison/deer, noodles, and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce (mixture)
27336310	Venison/deer, noodles, and vegetables (excluding carrots, broccoli, and dark-green leafy), tomato-based sauce (mixture)
27360000	Stew, NFS
27360010	Goulash, NFS
27360050	Meat pie, NFS



27360100	Brunswick stew
27361010	Stewed variety meats, Puerto Rican style (mostly liver) (Gandinga)
27362000	Stewed tripe, Puerto Rican style, with potatoes (Mondongo)
27363000	Gumbo with rice (New Orleans type with shellfish, pork, and/or poultry, tomatoes, okra, rice)
27363100	Jambalaya with meat and rice
27410210	Beef and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), no sauce (mixture)
27410220	Beef and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), no sauce (mixture)
27410250	Beef shish kabob with vegetables, excluding potatoes
27411100	Beef with vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), tomato-based sauce (mixture)
27411120	Swiss steak
27411150	Beef rolls, stuffed with vegetables or meat mixture, tomato-based sauce
27411200	Beef with vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), tomato-based sauce (mixture)
27414100	Beef with vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), (mushroom) soup (mixture)
27414200	Beef with vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), (mushroom) soup (mixture)
27415100	Beef and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), soy-based sauce (mixture)
27415110	Beef and broccoli
27415120	Beef, tofu, and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), soy-based sauce (mixture)
27415130	Szechuan beef
27415140	Hunan beef
27415150	Beef chow mein or chop suey, no noodles
27415170	Kung Pao beef
27415200	Beef and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), soy-based sauce (mixture)
27415220	Beef, tofu, and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), soy-based sauce (mixture)
27416100	Beef and vegetables, Hawaiian style (mixture)
27416150	Pepper steak
27416200	Beef, ground, with egg and onion (mixture)
27416250	Beef salad
27416300	Beef taco filling: beef, cheese, tomato, taco sauce
27416400	Sukiyaki (stir fried beef and vegetables in soy sauce)
27416450	Beef and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), gravy (mixture)
27416500	Beef and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), gravy (mixture)
27418110	Seasoned shredded soup meat (Ropa vieja, sopa de carne ripiada)
27418210	Puerto Rican style beef stew with vegetables, excluding potatoes (Carne a la Judia)
27418310	Corned beef with tomato sauce and onion, Puerto Rican style (mixture)
27418410	Beef steak with onions, Puerto Rican style (mixture) (Biftec encebollado)
27420010	Cabbage with ham hocks (mixture)
27420020	Ham or pork salad
27420040	Frankfurters or hot dogs and sauerkraut (mixture)
27420060	Pork and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), no sauce (mixture)
27420080	Greens with ham or pork (mixture)



27420100	Pork, tofu, and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), soy-base sauce (mixture)
27420110	Pork and vegetables, Hawaiian style (mixture)
27420120	Pork and watercress with soy-based sauce (mixture)
27420150	Kung Pao pork
27420160	Moo Shu (Mu Shi) Pork, without Chinese pancake
27420170	Pork and onions with soy-based sauce (mixture)
27420200	Pork hash, Hawaiian style-ground pork, vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), soy-based sauce
27420250	Ham and vegetables (including carrots, broccoli, and/or dark- green leafy (no potatoes)), no sauce (mixture)
27420270	Ham and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), no sauce (mixture)
27420350	Pork and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), no sauce (mixture)
27420370	Pork, tofu, and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), soy-based sauce (mixture)
27420390	Pork chow mein or chop suey, no noodles
27420400	Pork and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), tomato-based sauce (mixture)
27420410	Pork and vegetables (excluding carrots, broccoli, and dark- green leafy (no potatoes)), tomato-based sauce (mixture)
27420450	Sausage and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), tomato-based sauce (mixture)
27420460	Sausage and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), tomato-based sauce (mixture)
27420470	Sausage and peppers, no sauce (mixture)
27420500	Pork and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), soy-based sauce (mixture)
27420510	Pork and vegetables (excluding carrots, broccoli, and dark- green leafy (no potatoes)), soy-based sauce (mixture)
27420520	Pork shish kabob with vegetables, excluding potatoes
27421010	Stuffed christophine, Puerto Rican style (Chayote relleno)
27422010	Pork chop stewed with vegetables, Puerto Rican style (mixture) (Chuletas a la jardinera)
27430400	Lamb or mutton stew with vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), gravy
27430410	Lamb or mutton stew with vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), gravy
27430500	Veal goulash with vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), tomato-base sauce
27430510	Veal goulash with vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), tomato-base sauce
27430580	Veal with vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), cream or white sauce
27430590	Veal with vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), cream or white sauce
27430610	Lamb shish kabob with vegetables, excluding potatoes
27460490	Julienne salad (meat, cheese, eggs, vegetables), no dressing
27461010	Stewed seasoned ground beef, Puerto Rican style (Picadillo para relleno)
27462000	Stewed chitterlings, Puerto Rican style (cuaajo guisado)
27463000	Stewed gizzards, Puerto Rican style (Mollejitas guisadas)
28110220	Sirloin, chopped, with gravy, mashed potatoes, vegetable (frozen meal)



28110250	Sirloin tips with gravy, potatoes, vegetable (frozen meal)
28110270	Sirloin beef with gravy, potatoes, vegetable (frozen meal)
28110300	Salisbury steak dinner, NFS (frozen meal)
28110310	Salisbury steak with gravy, potatoes, vegetable (frozen meal)
28110330	Salisbury steak with gravy, whipped potatoes, vegetable, dessert (frozen meal)
28110340	Salisbury steak with gravy, potatoes, vegetable, soup or macaroni and cheese, dessert (frozen meal)
28110350	Salisbury steak with gravy, potatoes, vegetable, dessert (frozen meal, large meat portion)
28110370	Salisbury steak with gravy, macaroni and cheese, vegetable (frozen meal)
28110380	Salisbury steak with gravy, macaroni and cheese (frozen meal)
28110390	Salisbury steak, potatoes, vegetable, dessert (diet frozen meal)
28110510	Beef, sliced, with gravy, potatoes, vegetable (frozen meal)
28110620	Beef short ribs, boneless, with barbecue sauce, potatoes, vegetable (frozen meal)
28110640	Meatballs, Swedish, in sauce, with noodles (frozen meal)
28110660	Meatballs, Swedish, in gravy, with noodles (diet frozen meal)
28113110	Salisbury steak, baked, with tomato sauce, vegetable (diet frozen meal)
28113140	Beef with spaetzle or rice, vegetable (frozen meal)
28130000	Veal dinner, NFS (frozen meal)
28133110	Veal, breaded, with spaghetti, in tomato sauce (frozen meal)
28133340	Veal parmigiana with vegetable, fettuccine alfredo, dessert (frozen meal)
28160300	Meat loaf dinner, NFS (frozen meal)
28160310	Meat loaf with potatoes, vegetable (frozen meal)
58101820	Mexican casserole made with ground beef, beans, tomato sauce, cheese, taco seasonings, and corn chips
58101830	Mexican casserole made with ground beef, tomato sauce, cheese, taco seasonings, and corn chips
58130011	Lasagna with meat
58130013	Lasagna with meat, canned
58130015	Lasagna with meat, home recipe
58130016	Lasagna with meat, frozen
58130020	Lasagna with meat and spinach
58130140	Lasagna with chicken or turkey
58130150	Lasagna, with chicken or turkey, and spinach
58130310	Lasagna, meatless
58130320	Lasagna, meatless, with vegetables

### **Processed Meat Products**

**[Peazazz and Peazac, as protein] = 3%**

21601000	Beef, bacon, cooked
21601010	Beef, bacon, reduced sodium, cooked
21602000	Beef, dried, chipped, uncooked
21602010	Beef, dried, chipped, cooked in fat
21602100	Beef jerky
21603000	Beef, pastrami (beef, smoked, spiced)
22001000	Pork, pickled, NS as to cut
22002800	Pork jerky
22311000	Ham, smoked or cured, cooked, NS as to fat eaten
22311010	Ham, smoked or cured, cooked, lean and fat eaten
22311020	Ham, smoked or cured, cooked, lean only eaten
22311450	Ham, prosciutto
22311500	Ham, smoked or cured, canned, NS as to fat eaten
22311510	Ham, smoked or cured, canned, lean and fat eaten
22311520	Ham, smoked or cured, canned, lean only eaten



22321110	Ham, smoked or cured, ground patty
22431000	Pork roll, cured, fried
22501010	Canadian bacon, cooked
22600100	Bacon, NS as to type of meat, cooked
22600110	Bacon, NS as to type of meat, reduced sodium, cooked
22600200	Pork bacon, NS as to fresh, smoked or cured, cooked
22600210	Pork bacon, NS as to fresh, smoked or cured, reduced sodium, cooked
22601000	Pork bacon, smoked or cured, cooked
22601040	Bacon or side pork, fresh, cooked
22602010	Pork bacon, smoked or cured, reduced sodium, cooked
22621000	Salt pork, cooked
23220030	Veal patty, breaded, cooked
24206000	Turkey, canned
24208000	Turkey, nuggets
24208500	Turkey bacon, cooked
24208510	Turkey bacon, reduced sodium, cooked
25112200	Liver paste or pate, chicken
25210110	Frankfurter, wiener, or hot dog, NFS
25210150	Frankfurter or hot dog, cheese-filled
25210210	Frankfurter or hot dog, beef
25210220	Frankfurter or hot dog, beef and pork
25210240	Frankfurter or hot dog, beef and pork, reduced fat or light
25210250	Frankfurter or hot dog, meat and poultry, fat free
25210280	Frankfurter or hot dog, meat and poultry
25210290	Frankfurter or hot dog, meat and poultry, reduced fat or light
25210310	Frankfurter or hot dog, chicken
25210410	Frankfurter or hot dog, turkey
25210620	Frankfurter or hot dog, beef, reduced fat or light
25210750	Frankfurter or hot dog, reduced fat or light, NFS
25220010	Cold cut, NFS
25220105	Beef sausage
25220106	Beef sausage, reduced fat
25220108	Beef sausage, reduced sodium
25220150	Beef sausage with cheese
25220210	Blood sausage
25220350	Bratwurst
25220360	Bratwurst, with cheese
25220510	Capicola
25220650	Turkey or chicken and beef sausage
25220710	Chorizo
25220910	Head cheese
25221110	Knockwurst
25221210	Mortadella
25221250	Pepperoni
25221310	Polish sausage
25221350	Italian sausage
25221400	Sausage (not cold cut), NFS
25221405	Pork sausage
25221406	Pork sausage, reduced fat
25221408	Pork sausage, reduced sodium
25221450	Pork sausage rice links
25221460	Pork and beef sausage





25221500	Salami, NFS
25221510	Salami, soft, cooked
25221520	Salami, dry or hard
25221530	Salami, beef
25221610	Scrapple, cooked
25221710	Souse
25221810	Thuringer
25221830	Turkey or chicken sausage
25221855	Turkey or chicken sausage, reduced sodium
25221860	Turkey or chicken sausage, reduced fat
25221870	Turkey or chicken and pork sausage
25221875	Turkey or chicken, pork, and beef sausage, reduced sodium
25221910	Vienna sausage, canned
25221950	Pickled sausage
25230110	Luncheon meat, NFS
25230210	Ham, sliced, prepackaged or deli, luncheon meat
25230220	Ham, sliced, low salt, prepackaged or deli, luncheon meat
25230230	Ham, sliced, extra lean, prepackaged or deli, luncheon meat
25230235	Ham, sliced, extra lean, lower sodium, prepackaged or deli, luncheon meat
25230310	Chicken or turkey loaf, prepackaged or deli, luncheon meat
25230410	Ham loaf, luncheon meat
25230430	Ham and cheese loaf
25230450	Honey loaf
25230510	Ham, luncheon meat, chopped, minced, pressed, spiced, not canned
25230520	Ham, luncheon meat, chopped, minced, pressed, spiced, lowfat, not canned
25230530	Ham and pork, luncheon meat, chopped, minced, pressed, spiced, canned
25230540	Ham, pork and chicken, luncheon meat, chopped, minced, pressed, spiced, canned
25230550	Ham, pork, and chicken, luncheon meat, chopped, minced, pressed, spiced, canned, reduced sodium
25230560	Liverwurst
25230610	Luncheon loaf (olive, pickle, or pimienta)
25230710	Sandwich loaf, luncheon meat
25230790	Turkey ham, sliced, extra lean, prepackaged or deli, luncheon meat
25230800	Turkey ham
25230820	Turkey pastrami
25230840	Turkey salami
25230900	Turkey or chicken breast, prepackaged or deli, luncheon meat
25230905	Turkey or chicken breast, low salt, prepackaged or deli, luncheon meat
25231110	Beef, sliced, prepackaged or deli, luncheon meat
25231150	Corned beef, pressed
25240000	Meat spread or potted meat, NFS
25240110	Chicken salad spread
25240210	Ham, deviled or potted
25240220	Ham salad spread
25240310	Roast beef spread
25240320	Corned beef spread
27460510	Antipasto with ham, fish, cheese, vegetables
27500100	Meat sandwich, NFS
27500200	Wrap sandwich, filled with meat, poultry, or fish, vegetables, and cheese
27500300	Wrap sandwich, filled with meat, poultry, or fish, and vegetables
27510000	Beef sandwich, NFS
27510110	Beef barbecue sandwich or Sloppy Joe, on bun
27510130	Beef barbecue submarine sandwich, on bun



27510210	Cheeseburger, plain, on bun
27510220	Cheeseburger, with mayonnaise or salad dressing, on bun
27510230	Cheeseburger, with mayonnaise or salad dressing, and tomato and/or catsup, on bun
27510240	Cheeseburger, 1/4 lb meat, plain, on bun
27510250	Cheeseburger, 1/4 lb meat, with mayonnaise or salad dressing, on bun
27510260	Cheeseburger, 1/4 lb meat, with mushrooms in sauce, on bun
27510265	Double cheeseburger, (2 patties, 1 oz each), plain, on miniature bun
27510270	Double cheeseburger (2 patties), plain, on bun
27510280	Double cheeseburger (2 patties), with mayonnaise or salad dressing, on bun
27510290	Double cheeseburger (2 patties), plain, on double-decker bun
27510300	Double cheeseburger (2 patties), with mayonnaise or salad dressing, on double-decker bun
27510310	Cheeseburger with tomato and/or catsup, on bun
27510311	Cheeseburger, 1 oz meat, plain, on miniature bun
27510320	Cheeseburger, 1/4 lb meat, with tomato and/or catsup, on bun
27510330	Double cheeseburger (2 patties), with tomato and/or catsup, on bun
27510340	Double cheeseburger (2 patties), with mayonnaise or salad dressing and tomatoes and/or catsup, on bun
27510350	Cheeseburger, 1/4 lb meat, with mayonnaise or salad dressing, and tomato and/or catsup, on bun
27510355	Cheeseburger, 1/3 lb meat, with mayonnaise or salad dressing, tomato and/or catsup on bun
27510359	Cheeseburger, 1/3 lb meat, with mayonnaise or salad dressing, and mushrooms, on bun
27510360	Bacon cheeseburger, with mayonnaise or salad dressing, tomato and/or catsup, on bun
27510370	Double cheeseburger (2 patties, 1/4 lb meat each), with mayonnaise or salad dressing, on bun
27510375	Double cheeseburger (2 patties, 1/4 lb meat each), with tomato and/or catsup, on bun
27510380	Triple cheeseburger (3 patties, 1/4 lb meat each), with mayonnaise or salad dressing and tomatoes and/or catsup, on bun
27510385	Double bacon cheeseburger (2 patties), with tomato and/or catsup, on bun
27510390	Double bacon cheeseburger (2 patties, 1/4 lb meat each), on bun
27510400	Bacon cheeseburger, 1/4 lb meat, with tomato and/or catsup, on bun
27510410	Chiliburger, on bun
27510420	Taco burger, on bun
27510425	Double bacon cheeseburger (2 patties, 1/4 lb meat each), with mayonnaise or salad dressing, on bun
27510430	Double bacon cheeseburger (2 patties, 1/4 lb meat each), with mayonnaise or salad dressing, and tomato and/or catsup, on bun
27510435	Double bacon cheeseburger (2 patties, 1/3 lb meat each), with mayonnaise or salad dressing, on bun
27510440	Bacon cheeseburger, 1/4 lb meat, with mayonnaise or salad dressing, and tomato and/or catsup, on bun
27510445	Bacon cheeseburger, 1/3 lb meat, with tomato and/or catsup, on bun
27510450	Cheeseburger, 1/4 lb meat, with ham, on bun
27510480	Cheeseburger (hamburger with cheese sauce), 1/4 lb meat, with grilled onions, on rye bun
27510500	Hamburger, plain, on bun
27510510	Hamburger, with tomato and/or catsup, on bun
27510520	Hamburger, with mayonnaise or salad dressing, and tomato and/or catsup, on bun
27510530	Hamburger, 1/4 lb meat, plain, on bun
27510540	Double hamburger (2 patties), with tomato and/or catsup, on bun
27510550	Double hamburger (2 patties), with mayonnaise or salad dressing and tomatoes, on double-decker bun
27510560	Hamburger, 1/4 lb meat, with mayonnaise or salad dressing, and tomato and/or catsup, on bun
27510570	Hamburger, 2-1/2 oz meat, with mayonnaise or salad dressing and tomatoes, on bun
27510590	Hamburger, with mayonnaise or salad dressing, on bun
27510600	Hamburger, 1 oz meat, plain, on miniature bun
27510610	Hamburger, 1 oz meat, with tomato and/or catsup, on miniature bun
27510620	Hamburger, 1/4 lb meat, with tomato and/or catsup, on bun



27510630	Hamburger, 1/4 lb meat, with mayonnaise or salad dressing, on bun
27510650	Double hamburger (2 patties), plain, on bun
27510660	Double hamburger (2 patties), with mayonnaise or salad dressing, on bun
27510670	Double hamburger (2 patties), with mayonnaise or salad dressing and tomatoes, on bun
27510680	Double hamburger (2 patties, 1/4 lb meat each), with tomato and/or catsup, on bun
27510690	Double hamburger (2 patties, 1/4 lb meat each), with mayonnaise or salad dressing and tomatoes and/or catsup, on double-decker bun
27510700	Meatball and spaghetti sauce submarine sandwich
27510710	Pizzaburger (hamburger, cheese, sauce) on 1/2 bun
27510720	Pizzaburger (hamburger, cheese, sauce) on whole bun
27510910	Corned beef sandwich
27510950	Reuben sandwich (corned beef sandwich with sauerkraut and cheese), with spread
27511010	Pastrami sandwich
27513010	Roast beef sandwich
27513020	Roast beef sandwich, with gravy
27513040	Roast beef submarine sandwich, with lettuce, tomato and spread
27513041	Roast beef submarine sandwich, with cheese, lettuce, tomato and spread
27513050	Roast beef sandwich with cheese
27513060	Roast beef sandwich with bacon and cheese sauce
27513070	Roast beef submarine sandwich, on roll, au jus
27515000	Steak submarine sandwich with lettuce and tomato
27515010	Steak sandwich, plain, on roll
27515020	Steak and cheese submarine sandwich, with lettuce and tomato
27515030	Steak and cheese sandwich, plain, on roll
27515040	Steak and cheese submarine sandwich, plain, on roll
27515050	Fajita-style beef sandwich with cheese, on pita bread, with lettuce and tomato
27515070	Steak and cheese submarine sandwich, with fried peppers and onions, on roll
27515080	Steak sandwich, plain, on biscuit
27516010	Gyro sandwich (pita bread, beef, lamb, onion, condiments), with tomato and spread
27517000	Wrap sandwich filled with beef patty, cheese and spread and/or sauce
27517010	Wrap sandwich filled with beef patty, cheese, tomato and/or catsup, and spread and/or sauce
27518000	Wrap sandwich filled with beef patty, bacon, cheese, tomato and/or catsup, and spread and/or sauce
27520110	Bacon sandwich, with spread
27520120	Bacon and cheese sandwich, with spread
27520130	Bacon, chicken, and tomato club sandwich, with lettuce and spread
27520135	Bacon, chicken, and tomato club sandwich, with cheese, lettuce and spread
27520140	Bacon and egg sandwich
27520150	Bacon, lettuce, and tomato sandwich with spread
27520155	Bacon, lettuce, and tomato submarine sandwich, with spread
27520156	Bacon, lettuce, tomato, and cheese submarine sandwich, with spread
27520160	Bacon, chicken, and tomato club sandwich, on multigrain roll with lettuce and spread
27520165	Bacon, chicken fillet (breaded, fried), and tomato club with lettuce and spread
27520166	Bacon, chicken fillet (breaded, fried), and tomato club sandwich with cheese, lettuce and spread
27520170	Bacon on biscuit
27520250	Ham on biscuit
27520300	Ham sandwich, with spread
27520310	Ham sandwich with lettuce and spread
27520320	Ham and cheese sandwich, with lettuce and spread
27520330	Ham and egg sandwich
27520340	Ham salad sandwich
27520350	Ham and cheese sandwich, with spread, grilled
27520360	Ham and cheese sandwich, on bun, with lettuce and spread



27520370	Hot ham and cheese sandwich, on bun
27520380	Ham and cheese on English muffin
27520390	Ham and cheese submarine sandwich, with lettuce, tomato and spread
27520410	Cuban sandwich, (Sandwich cubano), with spread
27520420	Midnight sandwich, (Media noche), with spread
27520500	Pork sandwich, on white roll, with onions, dill pickles and barbecue sauce
27520510	Pork barbecue sandwich or Sloppy Joe, on bun
27520520	Pork sandwich
27520530	Pork sandwich, with gravy
27520540	Ham and tomato club sandwich, with lettuce and spread
27540330	Turkey sandwich, with gravy
27560110	Bologna sandwich, with spread
27560120	Bologna and cheese sandwich, with spread
27560300	Corn dog (frankfurter or hot dog with cornbread coating)
27560350	Pig in a blanket (frankfurter or hot dog wrapped in dough)
27560410	Puerto Rican sandwich (Sandwich criollo)
27560500	Pepperoni and salami submarine sandwich, with lettuce, tomato, and spread
27560510	Salami sandwich, with spread
27560660	Sausage griddle cake sandwich
27560670	Sausage and cheese on English muffin
27560705	Sausage balls (made with biscuit mix and cheese)
27560710	Sausage sandwich
27560720	Sausage and spaghetti sauce sandwich
27560910	Cold cut submarine sandwich, with cheese, lettuce, tomato, and spread
27563010	Meat spread or potted meat sandwich
27564000	Frankfurter or hot dog sandwich, NFS, plain, on white bun
27564001	Frankfurter or hot dog sandwich, NFS, plain, on wheat bun
27564002	Frankfurter or hot dog sandwich, NFS, plain, on whole wheat bun
27564003	Frankfurter or hot dog sandwich, NFS, plain, on whole grain white bun
27564004	Frankfurter or hot dog sandwich, NFS, plain, on multigrain bun
27564010	Frankfurter or hot dog sandwich, NFS, plain, on white bread
27564020	Frankfurter or hot dog sandwich, NFS, plain, on wheat bread
27564030	Frankfurter or hot dog sandwich, NFS, plain, on whole wheat bread
27564040	Frankfurter or hot dog sandwich, NFS, plain, on whole grain white bread
27564050	Frankfurter or hot dog sandwich, NFS, plain, on multigrain bread
27564060	Frankfurter or hot dog sandwich, beef, plain, on white bun
27564061	Frankfurter or hot dog sandwich, beef, plain, on wheat bun
27564062	Frankfurter or hot dog sandwich, beef, plain, on whole wheat bun
27564063	Frankfurter or hot dog sandwich, beef, plain, on whole grain white bun
27564064	Frankfurter or hot dog sandwich, beef, plain, on multigrain bun
27564070	Frankfurter or hot dog sandwich, beef, plain, on white bread
27564080	Frankfurter or hot dog sandwich, beef, plain, on wheat bread
27564090	Frankfurter or hot dog sandwich, beef, plain, on whole wheat bread
27564100	Frankfurter or hot dog sandwich, beef, plain, on whole grain white bread
27564110	Frankfurter or hot dog sandwich, beef, plain, on multigrain bread
27564120	Frankfurter or hot dog sandwich, beef and pork, plain, on white bun
27564121	Frankfurter or hot dog sandwich, beef and pork, plain, on wheat bun
27564122	Frankfurter or hot dog sandwich, beef and pork, plain, on whole wheat bun
27564123	Frankfurter or hot dog sandwich, beef and pork, plain, on whole grain white bun
27564124	Frankfurter or hot dog sandwich, beef and pork, plain, on multigrain bun
27564130	Frankfurter or hot dog sandwich, beef and pork, plain, on white bread
27564140	Frankfurter or hot dog sandwich, beef and pork, plain, on wheat bread



27564150	Frankfurter or hot dog sandwich, beef and pork, plain, on whole wheat bread
27564160	Frankfurter or hot dog sandwich, beef and pork, plain, on whole grain white bread
27564170	Frankfurter or hot dog sandwich, beef and pork, plain, on multigrain bread
27564180	Frankfurter or hot dog sandwich, meat and poultry, plain, on white bun
27564181	Frankfurter or hot dog sandwich, meat and poultry, plain, on wheat bun
27564182	Frankfurter or hot dog sandwich, meat and poultry, plain, on whole wheat bun
27564183	Frankfurter or hot dog sandwich, meat and poultry, plain, on whole grain white bun
27564184	Frankfurter or hot dog sandwich, meat and poultry, plain, on multigrain bun
27564190	Frankfurter or hot dog sandwich, meat and poultry, plain, on white bread
27564200	Frankfurter or hot dog sandwich, meat and poultry, plain, on wheat bread
27564210	Frankfurter or hot dog sandwich, meat and poultry, plain, on whole wheat bread
27564220	Frankfurter or hot dog sandwich, meat and poultry, plain, on whole grain white bread
27564230	Frankfurter or hot dog sandwich, meat and poultry, plain, on multigrain bread
27564240	Frankfurter or hot dog sandwich, chicken and/or turkey, plain, on white bun
27564241	Frankfurter or hot dog sandwich, chicken and/or turkey, plain, on wheat bun
27564242	Frankfurter or hot dog sandwich, chicken and/or turkey, plain, on whole wheat bun
27564243	Frankfurter or hot dog sandwich, chicken and/or turkey, plain, on whole grain white bun
27564244	Frankfurter or hot dog sandwich, chicken and/or turkey, plain, on multigrain bun
27564250	Frankfurter or hot dog sandwich, chicken and/or turkey, plain, on white bread
27564260	Frankfurter or hot dog sandwich, chicken and/or turkey, plain, on wheat bread
27564270	Frankfurter or hot dog sandwich, chicken and/or turkey, plain, on whole wheat bread
27564280	Frankfurter or hot dog sandwich, chicken and/or turkey, plain, on whole grain white bread
27564290	Frankfurter or hot dog sandwich, chicken and/or turkey, plain, on multigrain bread
27564300	Frankfurter or hot dog sandwich, reduced fat or light, plain, on white bun
27564301	Frankfurter or hot dog sandwich, reduced fat or light, plain, on wheat bun
27564302	Frankfurter or hot dog sandwich, reduced fat or light, plain, on whole wheat bun
27564303	Frankfurter or hot dog sandwich, reduced fat or light, plain, on whole grain white bun
27564304	Frankfurter or hot dog sandwich, reduced fat or light, plain, on multigrain bun
27564310	Frankfurter or hot dog sandwich, reduced fat or light, plain, on white bread
27564320	Frankfurter or hot dog sandwich, reduced fat or light, plain, on wheat bread
27564330	Frankfurter or hot dog sandwich, reduced fat or light, plain, on whole wheat bread
27564340	Frankfurter or hot dog sandwich, reduced fat or light, plain, on whole grain white bread
27564350	Frankfurter or hot dog sandwich, reduced fat or light, plain, on multigrain bread
27564360	Frankfurter or hot dog sandwich, fat free, plain, on white bun
27564361	Frankfurter or hot dog sandwich, fat free, plain, on wheat bun
27564362	Frankfurter or hot dog sandwich, fat free, plain, on whole wheat bun
27564363	Frankfurter or hot dog sandwich, fat free, plain, on whole grain white bun
27564364	Frankfurter or hot dog sandwich, fat free, plain, on multigrain bun
27564370	Frankfurter or hot dog sandwich, fat free, plain, on white bread
27564380	Frankfurter or hot dog sandwich, fat free, plain, on wheat bread
27564390	Frankfurter or hot dog sandwich, fat free, plain, on whole wheat bread
27564400	Frankfurter or hot dog sandwich, fat free, plain, on whole grain white bread
27564410	Frankfurter or hot dog sandwich, fat free, plain, on multigrain bread
27564420	Frankfurter or hot dog sandwich, meatless, plain, on bun
27564430	Frankfurter or hot dog sandwich, meatless, plain, on bread
27564440	Frankfurter or hot dog sandwich, with chili, on white bun
27564441	Frankfurter or hot dog sandwich, with chili, on wheat bun
27564442	Frankfurter or hot dog sandwich, with chili, on whole wheat bun
27564443	Frankfurter or hot dog sandwich, with chili, on whole grain white bun
27564444	Frankfurter or hot dog sandwich, with chili, on multigrain bun
27564450	Frankfurter or hot dog sandwich, with chili, on white bread
27564460	Frankfurter or hot dog sandwich, with chili, on wheat bread



27564470	Frankfurter or hot dog sandwich, with chili, on whole wheat bread
27564480	Frankfurter or hot dog sandwich, with chili, on whole grain white bread
27564490	Frankfurter or hot dog sandwich, with chili, on multigrain bread
32202025	Egg, cheese and ham on bagel
58310310	Pancakes and sausage (frozen meal)

## Milk Products

### Evaporated, Condensed, and Dry Milks; Plain Fermented Milks [Peazz and Pezac, as protein] = 8%

11120000	Milk, dry, reconstituted, NS as to fat content
11121100	Milk, dry, reconstituted, whole
11121210	Milk, dry, reconstituted, low fat (1%)
11121300	Milk, dry, reconstituted, fat free (skim)
11210050	Milk, evaporated, NS as to fat content
11211050	Milk, evaporated, whole
11211400	Milk, evaporated, reduced fat (2%)
11212050	Milk, evaporated, fat free (skim)
11220000	Milk, condensed, sweetened
11115400	Kefir, NS as to fat content

Adjusted for a reconstitution factor of 11  
[Peazz and Pezac, as protein] = 88%

11810000	Milk, dry, not reconstituted, NS as to fat content
11811000	Milk, dry, not reconstituted, whole
11812000	Milk, dry, not reconstituted, low fat (1%)
11813000	Milk, dry, not reconstituted, fat free (skim)
11825000	Whey, sweet, dry

### Flavored Milk, Milk Drinks and Mixes [Peazz and Pezac, as protein] = 2%

11115000	Buttermilk, fat free (skim)
11115100	Buttermilk, low fat (1%)
11115200	Buttermilk, reduced fat (2%)
11115300	Buttermilk, whole
11511000	Chocolate milk, NFS
11511100	Chocolate milk, ready to drink, whole
11511200	Chocolate milk, ready to drink, reduced fat (2%)
11511300	Chocolate milk, ready to drink, fat free (skim)
11511400	Chocolate milk, ready to drink, low fat (1%)
11511550	Chocolate milk, ready to drink, reduced sugar, NS as to milk
11511600	Nesquik, chocolate milk, ready to drink, low fat (1%)
11511610	Nesquik, chocolate milk, ready to drink, fat free (skim)
11511700	Nesquik, chocolate milk, ready to drink, low fat (1%), no sugar added
11512020	Hot chocolate / Cocoa, ready to drink, made with nonfat milk
11512100	Hot chocolate / Cocoa, ready to drink, with whipped cream
11512110	Hot chocolate / Cocoa, ready to drink, made with nonfat milk and whipped cream
11513000	Chocolate milk, made from dry mix, NS as to type of milk
11513100	Chocolate milk, made from dry mix with whole milk



11513150	Chocolate milk, made from dry mix with reduced fat milk (2%)
11513200	Chocolate milk, made from dry mix with low fat milk (1%)
11513300	Chocolate milk, made from dry mix with fat free milk (skim)
11513350	Chocolate milk, made from reduced sugar mix, NS as to type of milk
11513355	Chocolate milk, made from reduced sugar mix with whole milk
11513360	Chocolate milk, made from reduced sugar mix with reduced fat milk (2%)
11513365	Chocolate milk, made from reduced sugar mix with low fat milk (1%)
11513370	Chocolate milk, made from reduced sugar mix with fat free milk (skim)
11513380	Nesquik, chocolate milk, made from dry mix, NS as to type of milk
11513381	Nesquik, chocolate milk, made from dry mix with whole milk
11513382	Nesquik, chocolate milk, made from dry mix with reduced fat milk (2%)
11513383	Nesquik, chocolate milk, made from dry mix with low fat milk (1%)
11513384	Nesquik, chocolate milk, made from dry mix with fat free milk (skim)
11513390	Nesquik, chocolate milk, made from no sugar added dry mix, NS as to type of milk
11513391	Nesquik, chocolate milk, made from no sugar added dry mix with whole milk
11513392	Nesquik, chocolate milk, made from no sugar added dry mix with reduced fat milk (2%)
11513393	Nesquik, chocolate milk, made from no sugar added dry mix with low fat milk (1%)
11513394	Nesquik, chocolate milk, made from no sugar added dry mix with fat free milk (skim)
11513400	Chocolate milk, made from syrup, NS as to type of milk
11513500	Chocolate milk, made from syrup with whole milk
11513550	Chocolate milk, made from syrup with reduced fat milk (2%)
11513600	Chocolate milk, made from syrup with low fat milk (1%)
11513700	Chocolate milk, made from syrup with fat free milk (skim)
11513800	Chocolate milk, made from light syrup, NS as to type of milk
11513801	Chocolate milk, made from light syrup with whole milk
11513802	Chocolate milk, made from light syrup with reduced fat milk (2%)
11513803	Chocolate milk, made from light syrup with low fat milk (1%)
11513804	Chocolate milk, made from light syrup with fat free milk (skim)
11513850	Chocolate milk, made from sugar free syrup, NS as to type of milk
11513851	Chocolate milk, made from sugar free syrup with whole milk
11513852	Chocolate milk, made from sugar free syrup with reduced fat milk (2%)
11513853	Chocolate milk, made from sugar free syrup with low fat milk (1%)
11513854	Chocolate milk, made from sugar free syrup with fat free milk (skim)
11514110	Hot chocolate / Cocoa, made with dry mix and whole milk
11514120	Hot chocolate / Cocoa, made with dry mix and reduced fat milk (2%)
11514130	Hot chocolate / Cocoa, made with dry mix and low fat milk (1%)
11514140	Hot chocolate / Cocoa, made with dry mix and fat free milk (skim)
11514320	Hot chocolate / Cocoa, made with no sugar added dry mix and whole milk
11514330	Hot chocolate / Cocoa, made with no sugar added dry mix and reduced fat milk (2%)
11514340	Hot chocolate / Cocoa, made with no sugar added dry mix and low fat milk (1%)
11514350	Hot chocolate / Cocoa, made with no sugar added dry mix and fat free milk (skim)
11519040	Strawberry milk, NFS
11519050	Strawberry milk, whole
11519105	Strawberry milk, reduced fat (2%)
11519200	Strawberry milk, low fat (1%)
11519205	Strawberry milk, fat free (skim)
11525000	Milk, malted, natural flavor, made with milk
11526000	Milk, malted, chocolate, made with milk
11531000	Eggnog, regular
11531500	Eggnog, lowfat / light
11551050	Licualdo / Batido (milk fruit drink)
11560000	Yoo-hoo, chocolate milk drink



Adjusted for a reconstitution factor of 10.6

**[Peazazz and Peazac, as protein] = 21.2%**

11830260 Milk, malted, dry mix, not reconstituted

**Milk Shakes**

**[Peazazz and Peazac, as protein] = 10%**

11541110 Milk shake, home recipe, chocolate  
11541120 Milk shake, home recipe, flavors other than chocolate  
11541130 Milk shake, home recipe, chocolate, light  
11541135 Milk shake, home recipe, flavors other than chocolate, light  
11541400 Milk shake with malt  
11543000 Milk shake, bottled, chocolate  
11543010 Milk shake, bottled, flavors other than chocolate

**Milk-Based Meal Replacements**

**[Peazazz and Peazac, as protein] = 10%**

95101000 Boost, nutritional drink, ready-to-drink  
95101010 Boost Plus, nutritional drink, ready-to-drink  
95102000 Carnation Instant Breakfast, nutritional drink, regular, ready-to-drink  
95103000 Ensure, nutritional shake, ready-to-drink  
95103010 Ensure Plus, nutritional shake, ready-to-drink  
95104000 Glucerna, nutritional shake, ready-to-drink  
95105000 Kellogg's Special K Protein Shake  
95106000 Muscle Milk, ready-to-drink  
95106010 Muscle Milk, light, ready-to-drink  
95110000 Slim Fast Shake, meal replacement, regular, ready-to-drink  
95110010 Slim Fast Shake, meal replacement, sugar free, ready-to-drink  
95110020 Slim Fast Shake, meal replacement, high protein, ready-to-drink  
95120000 Nutritional drink or meal replacement, ready-to-drink, NFS  
95120010 Nutritional drink or meal replacement, high protein, ready-to-drink, NFS  
95120020 Nutritional drink or meal replacement, high protein, light, ready-to-drink, NFS  
95120050 Nutritional drink or meal replacement, liquid, soy-based

Adjusted for a reconstitution factor of 8

**[Peazazz and Peazac, as protein] = 80%**

95201000 Carnation Instant Breakfast, nutritional drink mix, regular, powder  
95201010 Carnation Instant Breakfast, nutritional drink mix, sugar free, powder  
95202000 Muscle Milk, regular, powder  
95202010 Muscle Milk, light, powder

Adjusted for a reconstitution factor of 10

**[Peazazz and Peazac, as protein] = 100%**

95210000 Slim Fast Shake Mix, powder  
95210010 Slim Fast Shake Mix, sugar free, powder  
95210020 Slim Fast Shake Mix, high protein, powder





Adjusted for a reconstitution factor of 16  
**[Peazz and Peazac, as protein] = 160%**

95220000 Nutritional drink mix or meal replacement, powder, NFS  
95220010 Nutritional drink mix or meal replacement, high protein, powder, NFS

**Plain or Flavored Yogurt**

**[Peazz and Peazac, as protein] = 2%**

11410000 Yogurt, NS as to type of milk or flavor  
11411010 Yogurt, plain, NS as to type of milk  
11411100 Yogurt, plain, whole milk  
11411200 Yogurt, plain, low fat milk  
11411300 Yogurt, plain, nonfat milk  
11411400 Yogurt, Greek, plain, whole milk  
11411410 Yogurt, Greek, plain, low fat  
11411420 Yogurt, Greek, plain, nonfat milk  
11420000 Yogurt, vanilla, NS as to type of milk  
11421000 Yogurt, vanilla, whole milk  
11422000 Yogurt, vanilla, low fat milk  
11422100 Yogurt, vanilla, low fat milk, light  
11423000 Yogurt, vanilla, nonfat milk  
11424000 Yogurt, vanilla, nonfat milk, light  
11424500 Yogurt, Greek, vanilla, whole milk  
11424510 Yogurt, Greek, vanilla, low fat  
11424520 Yogurt, Greek, vanilla, nonfat  
11425000 Yogurt, chocolate, NS as to type of milk  
11426000 Yogurt, chocolate, whole milk  
11427000 Yogurt, chocolate, nonfat milk  
11428000 Yogurt, Greek, chocolate, nonfat  
11430000 Yogurt, fruit, NS as to type of milk  
11431000 Yogurt, fruit, whole milk  
11432000 Yogurt, fruit, low fat milk  
11432500 Yogurt, fruit, low fat milk, light  
11433000 Yogurt, fruit, nonfat milk  
11433500 Yogurt, fruit, nonfat milk, light  
11434000 Yogurt, Greek, fruit, whole milk  
11434010 Yogurt, Greek, fruit, low fat  
11434020 Yogurt, Greek, fruit, nonfat  
11446000 Fruit and low fat yogurt parfait

**Nut and Nut Products**

**Nut Spreads**

**[Peazz and Peazac, as protein] = 4%**

42200500 Almond butter  
42201000 Cashew butter  
42202000 Peanut butter  
42202010 Peanut butter, low sodium  
42202100 Peanut butter, reduced sodium and reduced sugar  
42202130 Peanut butter, reduced sugar



42202150	Peanut butter, reduced fat
42202200	Peanut butter, vitamin and mineral fortified
42203000	Peanut butter and jelly
42301010	Peanut butter sandwich
42302010	Peanut butter and jelly sandwich
42303010	Peanut butter and banana sandwich

## **Plant Protein Products**

### **Meat Analogs**

**[Peazazz and Peazac, as protein] = 35%**

27564500	Frankfurter or hot dog sandwich, with meatless chili, on white bun
27564501	Frankfurter or hot dog sandwich, with meatless chili, on wheat bun
27564502	Frankfurter or hot dog sandwich, with meatless chili, on whole wheat bun
27564503	Frankfurter or hot dog sandwich, with meatless chili, on whole grain white bun
27564504	Frankfurter or hot dog sandwich, with meatless chili, on multigrain bun
27564510	Frankfurter or hot dog sandwich, with meatless chili, on white bread
27564520	Frankfurter or hot dog sandwich, with meatless chili, on wheat bread
27564530	Frankfurter or hot dog sandwich, with meatless chili, on whole wheat bread
27564540	Frankfurter or hot dog sandwich, with meatless chili, on whole grain white bread
27564550	Frankfurter or hot dog sandwich, with meatless chili, on multigrain bread
27564560	Frankfurter or hot dog sandwich, meatless, on bun, with meatless chili
27564570	Frankfurter or hot dog sandwich, meatless, on bread, with meatless chili
41810200	Bacon strip, meatless
41810250	Bacon bits
41810400	Breakfast link, pattie, or slice, meatless
41810600	Chicken, meatless, NFS
41810610	Chicken, meatless, breaded, fried
41811400	Frankfurter or hot dog, meatless
41811600	Luncheon slice, meatless-beef, chicken, salami or turkey
41811800	Meatball, meatless
41811890	Vegetarian burger or patty, meatless, no bun
41811950	Swiss steak, with gravy, meatless
41811950	Swiss steak, with gravy, meatless
41812000	Sandwich spread, meat substitute type
41812400	Vegetarian pot pie
41812600	Vegetarian, fillet
41812900	Vegetarian meat loaf or patties (meat loaf made with meat substitute)
59003000	Meat substitute, cereal- and vegetable protein-based, fried

### **Mixtures containing meat analogs**

(Adjusted for a meat analog content of 17.2 to 48.8%)

**[Peazazz and Peazac, as protein] = 6.0 to 17.1%**

41901020	Soyburger, meatless, with cheese on bun
41812510	Tofu and vegetables (excluding carrots, broccoli, and dark-green leafy vegetables (no potatoes)), with soy-based sauce (mixture)
41812500	Tofu and vegetables (including carrots, broccoli, and/or dark-green leafy vegetables (no potatoes)), with soy-based sauce (mixture)
41812850	Vegetarian stroganoff (made with meat substitute)
21540100	Ground beef with textured vegetable protein, cooked



41812450 Vegetarian chili (made with meat substitute)

## Poultry Products

### Poultry-Containing Entrees

[Peazazz and Peazac, as protein] = 5%

27341000	Chicken or turkey, potatoes, corn, and cheese, with gravy
27341010	Chicken or turkey, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), no sauce (mixture)
27341020	Chicken or turkey, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), no sauce (mixture)
27341025	Chicken or turkey, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), gravy (mixture)
27341030	Chicken or turkey, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), gravy (mixture)
27341035	Chicken or turkey, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), cream sauce, white sauce, or mushroom soup-based sauce (mixture)
27341040	Chicken or turkey, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), cream sauce, white sauce, or mushroom soup-based sauce (mixture)
27341045	Chicken or turkey, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), cheese sauce (mixture)
27341050	Chicken or turkey, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), cheese sauce (mixture)
27341055	Chicken or turkey, potatoes, and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce (mixture)
27341060	Chicken or turkey, potatoes, and vegetables (excluding carrots, broccoli, and dark-green leafy), tomato-based sauce (mixture)
27341310	Chicken or turkey stew with potatoes and vegetables (including carrots, broccoli, and/or dark-green leafy), gravy
27341320	Chicken or turkey stew with potatoes and vegetables (excluding carrots, broccoli, and dark-green leafy), gravy
27341510	Chicken or turkey stew with potatoes and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce
27341520	Chicken or turkey stew with potatoes and vegetables (excluding carrots, broccoli, and dark-green leafy), tomato-based sauce
27343010	Chicken or turkey, noodles, and vegetables (including carrots, broccoli, and/or dark-green leafy), no sauce (mixture)
27343020	Chicken or turkey, noodles, and vegetables (excluding carrots, broccoli, and dark-green leafy), no sauce (mixture)
27343410	Chicken or turkey, noodles, and vegetables (including carrots, broccoli, and/or dark-green leafy), gravy (mixture)
27343420	Chicken or turkey, noodles, and vegetables (excluding carrots, broccoli, and dark-green leafy), gravy (mixture)
27343470	Chicken or turkey, noodles, and vegetables (including carrots, broccoli, and/or dark-green leafy), cream sauce, white sauce, or mushroom soup-based sauce (mixture)
27343480	Chicken or turkey, noodles, and vegetables (excluding carrots, broccoli, and/or dark-green leafy), cream sauce, white sauce, or mushroom soup-based sauce (mixture)
27343510	Chicken or turkey, noodles, and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce (mixture)
27343520	Chicken or turkey, noodles, and vegetables (excluding carrots, broccoli, and dark-green leafy), tomato-based sauce (mixture)



27343910	Chicken or turkey chow mein or chop suey with noodles
27343950	Chicken or turkey, noodles, and vegetables (including carrots, broccoli, and/or dark-green leafy), cheese sauce (mixture)
27343960	Chicken or turkey, noodles, and vegetables (excluding carrots, broccoli, and dark-green leafy), cheese sauce (mixture)
27345010	Chicken or turkey, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), no sauce (mixture)
27345020	Chicken or turkey, rice, and vegetables (excluding carrots, broccoli, and dark-green leafy), no sauce (mixture)
27345210	Chicken or turkey, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), gravy (mixture)
27345220	Chicken or turkey, rice, and vegetables (excluding carrots, broccoli, and dark-green leafy), gravy (mixture)
27345230	Chicken or turkey, rice, corn, and cheese, with gravy
27345310	Chicken or turkey, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), soy-based sauce (mixture)
27345320	Chicken or turkey, rice, and vegetables (excluding carrots, broccoli, and dark-green leafy), soy-based sauce (mixture)
27345410	Chicken or turkey, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), cream sauce, white sauce, or mushroom soup-based sauce (mixture)
27345420	Chicken or turkey, rice, and vegetables (excluding carrots, broccoli, and dark-green leafy), cream sauce, white sauce, or mushroom soup-based sauce (mixture)
27345440	Chicken or turkey, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), cheese sauce (mixture)
27345450	Chicken or turkey, rice, and vegetables (excluding carrots, broccoli, and dark-green leafy), cheese sauce (mixture)
27345510	Chicken or turkey, rice, and vegetables (including carrots, broccoli, and/or dark-green leafy), tomato-based sauce (mixture)
27345520	Chicken or turkey, rice, and vegetables (excluding carrots, broccoli, and dark-green leafy), tomato-based sauce (mixture)
27347100	Chicken or turkey pot pie
27347200	Chicken or turkey, stuffing, and vegetables (including carrots, broccoli, and/or dark-green leafy), no sauce (mixture)
27347210	Chicken or turkey, stuffing, and vegetables (excluding carrots, broccoli, and dark green leafy), no sauce (mixture)
27347220	Chicken or turkey, stuffing, and vegetables (including carrots, broccoli, and/or dark-green leafy), gravy (mixture)
27347230	Chicken or turkey, stuffing, and vegetables (excluding carrots, broccoli, and dark-green leafy), gravy (mixture)
27347240	Chicken or turkey, dumplings, and vegetables (including carrots, broccoli, and/or dark green leafy), gravy (mixture)
27347250	Chicken or turkey, dumplings, and vegetables (excluding carrots, broccoli, and dark green leafy), gravy (mixture)
27348100	Chicken fricasee, Puerto Rican style (Fricase de pollo)
27440110	Chicken or turkey and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), no sauce (mixture)
27440120	Chicken or turkey and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), no sauce (mixture)
27440130	Chicken or turkey shish kabob with vegetables, excluding potatoes
27441120	Chicken or turkey creole, without rice
27442110	Chicken or turkey and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), gravy (mixture)



27442120	Chicken or turkey and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), gravy (mixture)
27443110	Chicken or turkey a la king with vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), cream, white, or soup-based sauce
27443120	Chicken or turkey a la king with vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), cream, white, or soup-based sauce
27443150	Chicken or turkey divan
27445110	Chicken or turkey and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), soy-based sauce (mixture)
27445120	Chicken or turkey and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), soy-based sauce (mixture)
27445125	Chicken or turkey and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), tomato-based sauce (mixture)
27445130	Chicken or turkey and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), tomato-based sauce (mixture)
27445150	General Tso chicken
27445180	Moo Goo Gai Pan
27445220	Kung pao chicken
27445250	Almond chicken
27446100	Chicken or turkey chow mein or chop suey, no noodles
27446200	Chicken or turkey salad, made with mayonnaise
27446205	Chicken or turkey salad with nuts and/or fruits
27446220	Chicken or turkey salad with egg
27446225	Chicken or turkey salad, made with light mayonnaise
27446230	Chicken or turkey salad, made with mayonnaise-type salad dressing
27446235	Chicken or turkey salad, made with light mayonnaise-type salad dressing
27446240	Chicken or turkey salad, made with creamy dressing
27446245	Chicken or turkey salad, made with light creamy dressing
27446250	Chicken or turkey salad, made with Italian dressing
27446255	Chicken or turkey salad, made with light Italian dressing
27446260	Chicken or turkey salad, made with any type of fat free dressing
27446300	Chicken or turkey garden salad (chicken and/or turkey, tomato and/or carrots, other vegetables), no dressing
27446310	Chicken or turkey garden salad (chicken and/or turkey, other vegetables excluding tomato and carrots), no dressing
27446315	Chicken or turkey garden salad with bacon and cheese (chicken and/or turkey, bacon, cheese, lettuce and/or greens, tomato and/or carrots, other vegetables), no dressing
27446320	Chicken or turkey (breaded, fried) garden salad with bacon and cheese (chicken and/or turkey, bacon, cheese, lettuce and/or greens, tomato and/or carrots, other vegetables), no dressing
27446330	Chicken or turkey garden salad with cheese (chicken and/or turkey, cheese, lettuce and/or greens, tomato and/or carrots, other vegetables), no dressing
27446332	Chicken or turkey (breaded, fried) garden salad with cheese (chicken and/or turkey, cheese, lettuce and/or greens, tomato and/or carrots, other vegetables), no dressing
27446350	Asian chicken or turkey garden salad (chicken and/or turkey, lettuce, fruit, nuts), no dressing
27446355	Asian chicken or turkey garden salad with crispy noodles (chicken and/or turkey, lettuce, fruit, nuts, crispy noodles), no dressing
27446360	Chicken or turkey caesar garden salad (chicken and/or turkey, lettuce, tomato, cheese), no dressing
27446362	Chicken or turkey (breaded, fried) caesar garden salad (chicken and/or turkey, lettuce, tomatoes, cheese), no dressing
27446400	Chicken or turkey and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), cheese sauce (mixture)



27446410	Chicken or turkey and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), cheese sauce (mixture)
27448020	Chicken or turkey fricassee, with sauce, no potatoes, Puerto Rican style (potatoes reported separately)
27448030	Chicken or turkey fricassee, no sauce, no potatoes, Puerto Rican style (sauce and potatoes reported separately)
28140100	Chicken dinner, NFS (frozen meal)
28140150	Chicken divan (frozen meal)
28140250	Chicken, boneless, with gravy, dressing, rice, vegetable, dessert (frozen meal, large meat portion)
28140320	Chicken and noodles with vegetable, dessert (frozen meal)
28140710	Chicken, fried, with potatoes, vegetable (frozen meal)
28140720	Chicken patty, or nuggets, boneless, breaded, potatoes, vegetable (frozen meal)
28140730	Chicken patty, breaded, with tomato sauce and cheese, fettuccine alfredo, vegetable (frozen meal)
28140740	Chicken patty, or nuggets, boneless, breaded, with pasta and tomato sauce, fruit, dessert (frozen meal)
28140810	Chicken, fried, with potatoes, vegetable, dessert (frozen meal)
28141010	Chicken, fried, with potatoes, vegetable, dessert (frozen meal, large meat portion)
28141050	Chicken patty parmigiana, breaded, with vegetable (diet frozen meal)
28141201	Teriyaki chicken with rice and vegetable (diet frozen meal)
28141250	Chicken with rice-vegetable mixture (diet frozen meal)
28141600	Chicken a la king with rice (frozen meal)
28141610	Chicken and vegetables in cream or white sauce (diet frozen meal)
28141650	Chicken and vegetables au gratin with rice-vegetable mixture (diet frozen entree)
28143020	Chicken and vegetable entree with rice, Asian (diet frozen meal)
28143040	Chicken chow mein with rice (diet frozen meal)
28143080	Chicken with noodles and cheese sauce (diet frozen meal)
28143110	Chicken cacciatore with noodles (diet frozen meal)
28143130	Chicken and vegetable entree with noodles (frozen meal)
28143150	Chicken and vegetable entree with noodles (diet frozen meal)
28143170	Chicken in cream sauce with noodles and vegetable (frozen meal)
28143180	Chicken in butter sauce with potatoes and vegetable (diet frozen meal)
28143190	Chicken in mushroom sauce, white and wild rice, vegetable (frozen meal)
28143200	Chicken in soy-based sauce, rice and vegetables (frozen meal)
28143210	Chicken in orange sauce with almond rice (diet frozen meal)
28144100	Chicken and vegetable entree with noodles and cream sauce (frozen meal)
28145000	Turkey dinner, NFS (frozen meal)
28145100	Turkey with dressing, gravy, vegetable and fruit (diet frozen meal)
28145110	Turkey with vegetable, stuffing (diet frozen meal)
28145210	Turkey with gravy, dressing, potatoes, vegetable (frozen meal)
28145610	Turkey with gravy, dressing, potatoes, vegetable, dessert (frozen meal, large meat portion)
28145710	Turkey tetrazzini (frozen meal)

#### **Processed Fruits and Fruit Juices (including powder and other forms)**

##### **Fruit Juices; Fruit Nectars; Fruit Flavored Drinks and Ades; Fruit-Based Desserts**

**[Peazz and Pezac, as protein] = 2%**

61201020	Grapefruit juice, 100%, NS as to form
61201220	Grapefruit juice, 100%, canned, bottled or in a carton
61201225	Grapefruit juice, 100%, with calcium added
61201620	Grapefruit juice, 100%, frozen, reconstituted
61204000	Lemon juice, 100%, NS as to form



61204200	Lemon juice, 100%, canned or bottled
61207000	Lime juice, 100%, NS as to form
61207200	Lime juice, 100%, canned or bottled
61210000	Orange juice, 100%, NFS
61210220	Orange juice, 100%, canned, bottled or in a carton
61210250	Orange juice, 100%, with calcium added, canned, bottled or in a carton
61210620	Orange juice, 100%, frozen, reconstituted
61210820	Orange juice, 100%, with calcium added, frozen, reconstituted
61213220	Tangerine juice, 100%
61213800	Fruit juice blend, citrus, 100% juice
61213900	Fruit juice blend, citrus, 100% juice, with calcium added
63420100	Fruit juice bar, frozen, orange flavor
63420110	Fruit juice bar, frozen, flavor other than orange
63420200	Fruit juice bar, frozen, sweetened with low calorie sweetener, flavors other than orange
63430500	Fruit juice bar with cream, frozen
64100100	Fruit juice, NFS
64100110	Fruit juice blend, 100% juice
64100200	Cranberry juice blend, 100% juice
64100220	Cranberry juice blend, 100% juice, with calcium added
64101010	Apple cider
64104010	Apple juice, 100%
64104030	Apple juice, 100%, with calcium added
64104600	Blackberry juice, 100%
64105400	Cranberry juice, 100%, not a blend
64116020	Grape juice, 100%
64116060	Grape juice, 100%, with calcium added
64120010	Papaya juice, 100%
64121000	Passion fruit juice, 100%
64124020	Pineapple juice, 100%
64126000	Pomegranate juice, 100%
64132010	Prune juice, 100%
64132500	Strawberry juice, 100%
64133100	Watermelon juice, 100%
64200100	Fruit nectar, NFS
64201010	Apricot nectar
64201500	Banana nectar
64202010	Cantaloupe nectar
64203020	Guava nectar
64204010	Mango nectar
64205010	Peach nectar
64210010	Papaya nectar
64213010	Passion fruit nectar
64215010	Pear nectar
64221010	Soursop (Guanabana) nectar
92510610	Fruit juice drink
92510650	Tamarind drink (Refresco de tamarindo)
92510720	Fruit punch, made with fruit juice and soda
92510730	Fruit punch, made with soda, fruit juice, and sherbet or ice cream
92510955	Lemonade, fruit juice drink
92510960	Lemonade, fruit flavored drink
92511015	Fruit flavored drink
92511250	Fruit juice beverage, 40-50% juice, citrus



92512050	Frozen daiquiri mix, from frozen concentrate, reconstituted
92512090	Pina Colada, nonalcoholic
92512110	Margarita mix, nonalcoholic
92530410	Fruit flavored drink, with high vitamin C
92530510	Cranberry juice drink, with high vitamin C
92530610	Fruit juice drink, with high vitamin C
92530950	Vegetable and fruit juice drink, with high vitamin C
92531030	Sunny D
92541010	Fruit flavored drink, powdered, reconstituted
92542000	Fruit flavored drink, with high vitamin C, powdered, reconstituted
92550030	Fruit juice drink, with high vitamin C, light
92550035	Fruit juice drink, light
92550040	Fruit juice drink, diet
92550110	Cranberry juice drink, with high vitamin C, light
92550200	Grape juice drink, light
92550350	Orange juice beverage, 40-50% juice, light
92550360	Apple juice beverage, 40-50% juice, light
92550370	Lemonade, fruit juice drink, light
92550380	Pomegranate juice beverage, 40-50% juice, light
92550400	Vegetable and fruit juice drink, with high vitamin C, diet
92550405	Vegetable and fruit juice drink, with high vitamin C, light
92550610	Fruit flavored drink, with high vitamin C, diet
92550620	Fruit flavored drink, diet
92552000	Fruit flavored drink, with high vitamin C, powdered, reconstituted, diet
92552010	Fruit flavored drink, powdered, reconstituted, diet
92552020	Sunny D, reduced sugar
92552030	Capri Sun, fruit juice drink
92582100	Fruit juice drink, with high vitamin C, plus added calcium
92582110	Sunny D, added calcium

Adjusted for a reconstitution factor of 4

**[Peazazz and Peazac, as protein] = 8%**

61210720	Orange juice, 100%, frozen, not reconstituted
92511000	Lemonade, frozen concentrate, not reconstituted
92512040	Frozen daiquiri mix, frozen concentrate, not reconstituted

Adjusted for a reconstitution factor of 10.23

**[Peazazz and Peazac, as protein] = 20.5%**

92900100	Fruit flavored drink, with high vitamin C, powdered, not reconstituted
92900110	Fruit flavored drink, powdered, not reconstituted
92900200	Fruit flavored drink, powdered, not reconstituted, diet

#### **Fruit Smoothies**

**[Peazazz and Peazac, as protein] = 6%**

11553100	Fruit smoothie, NFS
11553110	Fruit smoothie, with whole fruit and dairy
11553120	Fruit smoothie, with whole fruit and dairy, added protein
11553130	Fruit smoothie juice drink, with dairy
64134015	Fruit smoothie, with whole fruit (no dairy)





64134020	Fruit smoothie, with whole fruit (no dairy), added protein
64134030	Fruit smoothie juice drink (no dairy)
64134100	Fruit smoothie, light
64134200	Fruit smoothie, bottled
92513000	Fruit flavored smoothie drink, frozen (no dairy)
92513010	Fruit flavored smoothie drink, frozen, light (no dairy)

## Processed Vegetables and Vegetable Juices

### Vegetable Juices; Vegetable Combinations Used for Purees

[Peazz and Peazac, as protein] = 2%

74301100	Tomato juice, 100%
74301150	Tomato juice, 100%, low sodium
74302000	Tomato juice cocktail
74303000	Tomato and vegetable juice, 100%
74303100	Tomato and vegetable juice, 100%, low sodium
75301100	Beans, lima and corn (succotash), cooked, NS as to fat added in cooking
75301110	Beans, lima and corn (succotash), cooked, fat not added in cooking
75301120	Beans, lima and corn (succotash), cooked, fat added in cooking, NS as to type of fat
75301121	Beans, lima and corn (succotash), cooked, made with oil
75301122	Beans, lima and corn (succotash), cooked, made with butter
75301123	Beans, lima and corn (succotash), cooked, made with margarine
75302009	Beans, string, green, with tomatoes, cooked, NS as to fat added in cooking
75302010	Beans, string, green, with tomatoes, cooked, fat not added in cooking
75302011	Beans, string, green, with tomatoes, cooked, fat added in cooking
75302029	Beans, string, green, with chickpeas, cooked, NS as to fat added in cooking
75302030	Beans, string, green, with chickpeas, cooked, fat not added in cooking
75302031	Beans, string, green, with chickpeas, cooked, fat added in cooking
75302039	Beans, string, green, with almonds, cooked, NS as to fat added in cooking
75302040	Beans, string, green, with almonds, cooked, fat not added in cooking
75302045	Beans, string, green, with almonds, cooked, fat added in cooking, NS as to type of fat
75302046	Beans, string, green, with almonds, cooked, made with oil
75302047	Beans, string, green, with almonds, cooked, made with butter
75302048	Beans, string, green, with almonds, cooked, made with margarine
75302059	Beans, string, green, with pinto beans, cooked, NS as to fat added in cooking
75302060	Beans, string, green, with pinto beans, cooked, fat not added in cooking
75302061	Beans, string, green, with pinto beans, cooked, fat added in cooking
75302069	Beans, string, green, with spaetzel, cooked, NS as to fat added in cooking
75302070	Beans, string, green, with spaetzel, cooked, fat not added in cooking
75302071	Beans, string, green, with spaetzel, cooked, fat added in cooking
75302080	Bean salad, yellow and/or green string beans
75302200	Beans, string, green, with onions, NS as to fat added in cooking
75302205	Beans, string, green, with onions, cooked, fat not added in cooking
75302210	Beans, string, green, with onions, cooked, fat added in cooking, NS as to type of fat
75302211	Beans, string, green, with onions, cooked, made with oil
75302212	Beans, string, green, with onions, cooked, made with butter
75302213	Beans, string, green, with onions, cooked, made with margarine
75302500	Beans, string, green, and potatoes, cooked, NS as to fat added in cooking
75302505	Beans, string, green, and potatoes, cooked, fat not added in cooking
75302510	Beans, string, green, and potatoes, cooked, fat added in cooking, NS as to type of fat
75302511	Beans, string, green, and potatoes, cooked, made with oil



75302512	Beans, string, green, and potatoes, cooked, made with butter
75302513	Beans, string, green, and potatoes, cooked, made with margarine
75303000	Corn with peppers, red or green, cooked, NS as to fat added in cooking
75303010	Corn with peppers, red or green, cooked, fat not added in cooking
75303020	Corn with peppers, red or green, cooked, fat added in cooking, NS as to type of fat
75303021	Corn with peppers, red or green, cooked, made with oil
75303022	Corn with peppers, red or green, cooked, made with butter
75303023	Corn with peppers, red or green, cooked, made with margarine
75306010	Eggplant in tomato sauce, cooked, fat not added in cooking
75306998	Green peppers and onions, cooked, fat not added in cooking
75306999	Green peppers and onions, cooked, NS as to fat added in cooking
75307000	Green peppers and onions, cooked, fat added in cooking, NS as to type of fat
75307001	Green peppers and onions, cooked, made with oil
75307002	Green peppers and onions, cooked, made with butter
75307003	Green peppers and onions, cooked, made with margarine
75311000	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, NS as to form, NS as to fat added in cooking
75311002	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, from frozen, NS as to fat added in cooking
75311003	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, from canned, NS as to fat added in cooking
75311010	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, NS as to form, fat not added in cooking
75311012	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, from frozen, fat not added in cooking
75311013	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, from canned, fat not added in cooking
75311020	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, NS as to form, fat added in cooking, NS as to type of fat
75311022	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, from frozen, fat added in cooking, NS as to type of fat
75311023	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, from canned, fat added in cooking, NS as to type of fat
75311024	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, NS as to form, made with oil
75311025	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, NS as to form, made with butter
75311026	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, NS as to form, made with margarine
75311027	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, from frozen, made with oil
75311028	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, from frozen, made with butter
75311029	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, from frozen, made with margarine
75311030	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, from canned, made with oil
75311031	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, from canned, made with butter
75311032	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked, from canned, made with margarine



75311100	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), canned, low sodium, NS as to fat added in cooking
75311110	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), canned, low sodium, fat not added in cooking
75311120	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), canned, low sodium, fat added in cooking, NS as to type of fat
75311121	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), canned, low sodium, made with oil
75311122	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), canned, low sodium, made with butter
75311123	Mixed vegetables (corn, lima beans, peas, green beans, and carrots), canned, low sodium, made with margarine
75315000	Peas and corn, cooked, NS as to fat added in cooking
75315010	Peas and corn, cooked, fat not added in cooking
75315020	Peas and corn, cooked, fat added in cooking, NS as to type of fat
75315021	Peas and corn, cooked, made with oil
75315022	Peas and corn, cooked, made with butter
75315023	Peas and corn, cooked, made with margarine
75315100	Peas and onions, cooked, NS as to fat added in cooking
75315110	Peas and onions, cooked, fat not added in cooking
75315120	Peas and onions, cooked, fat added in cooking, NS as to type of fat
75315121	Peas and onions, cooked, made with oil
75315122	Peas and onions, cooked, made with butter
75315123	Peas and onions, cooked, made with margarine
75315200	Peas and mushrooms, cooked, NS as to fat added in cooking
75315210	Peas and mushrooms, cooked, fat not added in cooking
75315215	Peas and mushrooms, cooked, fat added in cooking, NS as to type of fat
75315216	Peas and mushrooms, cooked, made with oil
75315217	Peas and mushrooms, cooked, made with butter
75315218	Peas and mushrooms, cooked, made with margarine
75315249	Cowpeas with snap beans, cooked, NS as to fat added in cooking
75315250	Cowpeas with snap beans, cooked, fat not added in cooking
75315251	Cowpeas with snap beans, cooked, fat added in cooking
75315300	Peas and potatoes, cooked, fat not added in cooking
75315305	Peas and potatoes, cooked, NS as to fat added in cooking
75315310	Peas and potatoes, cooked, fat added in cooking, NS as to type of fat
75315311	Peas and potatoes, cooked, made with oil
75315312	Peas and potatoes, cooked, made with butter
75315313	Peas and potatoes, cooked, made with margarine
75315999	Squash, summer, yellow or green, and onions, cooked, NS as to fat added in cooking
75316000	Squash, summer, yellow or green, and onions, cooked, fat not added in cooking
75316020	Squash, summer, yellow or green, and onions, cooked, fat added in cooking
75316022	Squash, summer, yellow or green, and onions, cooked, made with oil
75316023	Squash, summer, yellow or green, and onions, cooked, made with butter
75316024	Squash, summer, yellow or green, and onions, cooked, made with margarine
75316030	Squash, summer, yellow or green, with tomato sauce, cooked, fat not added in cooking
75316031	Squash, summer, yellow or green, with tomato sauce, cooked, fat added in cooking
75316032	Squash, summer, yellow or green, with tomato sauce, cooked, NS as to fat added in cooking
75316050	Ratatouille
75317000	Vegetables, stew type (including potatoes, carrots, onions, celery) cooked, NS as to fat added in cooking



75317010	Vegetables, stew type (including potatoes, carrots, onions, celery) cooked, fat added in cooking, NS as to type of fat
75317011	Vegetables, stew type (including potatoes, carrots, onions, celery) cooked, made with oil
75317012	Vegetables, stew type (including potatoes, carrots, onions, celery) cooked, made with butter
75317013	Vegetables, stew type (including potatoes, carrots, onions, celery) cooked, made with margarine
75317020	Vegetables, stew type (including potatoes, carrots, onions, celery) cooked, fat not added in cooking
75330100	Vegetable combination (including carrots, broccoli, and/or dark-green leafy), cooked, no sauce, NS as to fat added in cooking
75330110	Vegetable combination (including carrots, broccoli, and/or dark-green leafy), cooked, no sauce, fat not added in cooking
75330120	Vegetable combination (including carrots, broccoli, and/or dark-green leafy), cooked, no sauce, fat added in cooking, NS as to type of fat
75330121	Vegetable combination (including carrots, broccoli, and/or dark-green leafy), cooked, no sauce, made with oil
75330122	Vegetable combination (including carrots, broccoli, and/or dark-green leafy), cooked, no sauce, made with butter
75330123	Vegetable combination (including carrots, broccoli, and/or dark-green leafy), cooked, no sauce, made with margarine
75330130	Vegetable combination (excluding carrots, broccoli, and dark-green leafy), cooked, no sauce, NS as to fat added in cooking
75330140	Vegetable combination (excluding carrots, broccoli, and dark-green leafy), cooked, no sauce, fat not added in cooking
75330150	Vegetable combination (excluding carrots, broccoli, and dark-green leafy), cooked, no sauce, fat added in cooking, NS as to type of fat
75330151	Vegetable combination (excluding carrots, broccoli, and dark-green leafy), cooked, no sauce, made with oil
75330152	Vegetable combination (excluding carrots, broccoli, and dark-green leafy), cooked, no sauce, made with butter
75330153	Vegetable combination (excluding carrots, broccoli, and dark-green leafy), cooked, no sauce, made with margarine
75340000	Vegetable combinations, Asian style, (broccoli, green pepper, water chestnut, etc) cooked, NS as to fat added in cooking
75340010	Vegetable combinations, Asian style, (broccoli, green pepper, water chestnuts, etc), cooked, fat not added in cooking
75340020	Vegetable combinations, Asian style, (broccoli, green pepper, water chestnuts, etc), cooked, fat added in cooking, NS as to type of fat
75340021	Vegetable combinations, Asian style, (broccoli, green pepper, water chestnuts, etc), cooked, made with oil
75340022	Vegetable combinations, Asian style, (broccoli, green pepper, water chestnuts, etc), cooked, made with butter
75340023	Vegetable combinations, Asian style, (broccoli, green pepper, water chestnuts, etc), cooked, made with margarine
75340160	Vegetable and pasta combinations with cream or cheese sauce (broccoli, pasta, carrots, corn, zucchini, peppers, cauliflower, peas, etc.), cooked
75340200	Jai, Monk's Food (mushrooms, lily roots, bean curd, water chestnuts)
75340300	Pinacbet (eggplant with tomatoes, bitter melon, etc.)
75365000	Vegetable mixture, dried
78101000	Vegetable and fruit juice, 100% juice, with high vitamin C

### **Vegetable Smoothies**

**[Peazz and Pezac, as protein] = 6%**



78101100 Fruit and vegetable smoothie  
78101110 Fruit and vegetable smoothie, added protein  
78101120 Fruit and vegetable smoothie, bottled

## Snack Foods

### **Potato Chips; Pretzels; Corn-Based Savory Snacks** **[Peazazz and Peazac, as protein] = 2%**

54401010 Salty snacks, corn or cornmeal base, nuts or nuggets, toasted  
54401020 Salty snacks, corn or cornmeal base, corn chips, corn-cheese chips  
54401050 Salty snacks, corn or cornmeal base, corn puffs and twists; corn-cheese puffs and twists  
54401080 Salty snacks, corn or cornmeal base, tortilla chips  
54401090 Salty snacks, corn or cornmeal base, corn chips, corn-cheese chips, unsalted  
54401100 Salty snacks, corn or cornmeal base, tortilla chips, light (baked with less oil)  
54401120 Salty snacks, corn or cornmeal base, tortilla chips, fat free, made with Olean  
54401150 Salty snacks, corn or cornmeal base, tortilla chips, lowfat, baked without fat  
54401170 Salty snacks, corn or cornmeal base, tortilla chips, lowfat, baked without fat, unsalted  
54401200 Salty snacks, corn or cornmeal base, with oat bran, tortilla chips  
54401210 Salty snacks, corn based puffs and twists, cheese puffs and twists, lowfat  
54402080 Salty snacks, corn or cornmeal base, tortilla chips, unsalted  
54402200 Salty snack mixture, mostly corn or cornmeal based, with pretzels, without nuts  
54402300 Salty snacks, wheat-based, high fiber  
54402500 Salty snacks, wheat- and corn-based chips  
54402600 Salty snacks, multigrain, whole grain, chips (made with whole corn, whole wheat, rice flour, and whole oat flour)  
54402610 Salty snacks, multigrain and potato chips (made with rice flour, dried potatoes, corn flour, and wheat starch)  
54406010 Snacks, onion-flavored rings  
54408000 Pretzels, NFS  
54408010 Pretzels, hard  
54408020 Pretzels, soft  
54408030 Pretzel, hard, unsalted  
54408040 Pretzels, soft, unsalted  
54408050 Pretzel, oatbran, hard  
54408070 Pretzel, hard, multigrain  
54408080 Pretzel, gluten free  
54408100 Pretzel, baby food  
54408200 Pretzel, hard, chocolate-coated  
54408250 Pretzel, yogurt-covered  
54408300 Pretzels, cheese-filled  
54420010 Multigrain mixture, pretzels, cereal and/or crackers, nuts  
71201015 White potato chips, regular cut  
71201020 White potato chips, ruffled, rippled, or crinkle cut  
71201050 White potato, chips, reduced fat  
71201080 White potato, chips, fat free  
71201090 White potato, chips, fat free, made with Olean  
71201100 White potato, chips, restructured  
71201200 White potato, chips, restructured, reduced fat and reduced sodium  
71201210 White potato, chips, restructured, fat free, made with Olean  
71201250 White potato, chips, restructured, baked  
71202000 White potato, chips, unsalted



71202100 White potato, chips, unsalted, reduced fat  
71202500 White potato chips, lightly salted  
71211000 White potato skins, chips

**Mixtures containing potato chips, pretzels, or corn-based savory snacks**

(Adjusted for a potato chip, pretzel, or corn-based savory snack content of 12.9 to 22.2%)

**[Peazz and Peazac, as protein] = 0.26 to 0.44%**

58104160 Nachos with chili  
58104090 Nachos with cheese and sour cream  
58104120 Nachos with cheese  
58104130 Nachos with meat and cheese  
58104150 Nachos with chicken and cheese  
58104180 Nachos with meat, cheese, and sour cream  
58104190 Nachos with chicken, cheese, and sour cream

**Popcorn**

**[Peazz and Peazac, as protein] = 1%**

54403000 Popcorn, popped in oil, unbuttered  
54403010 Popcorn, air-popped (no butter or no oil added)  
54403020 Popcorn, popped in oil, buttered  
54403040 Popcorn, air-popped, buttered  
54403050 Popcorn, flavored  
54403060 Popcorn, popped in oil, lowfat, reduced sodium  
54403070 Popcorn, popped in oil, lowfat  
54403090 Popcorn, popped in oil, unsalted  
54403110 Popcorn, sugar syrup or caramel-coated  
54403120 Popcorn, sugar syrup or caramel-coated, with nuts  
54403150 Popcorn, sugar syrup or caramel-coated, fat free

**Soft Candy**

**Chocolate; Nougat and Toffees; Gummies; Soft Candy**

**[Peazz and Peazac, as protein] = 2%**

91700500 M&M's Almond Chocolate Candies  
91701010 Almonds, chocolate covered  
91701020 Almonds, sugar-coated  
91701030 Almonds, yogurt-covered  
91702010 Butterscotch morsels  
91703010 Caramel, chocolate-flavored roll  
91703020 Caramel, flavor other than chocolate  
91703030 Caramel, with nuts  
91703040 Caramel candy, chocolate covered  
91703050 Caramel with nuts and cereal, chocolate covered  
91703060 Caramel with nuts, chocolate covered  
91703070 Rolo  
91703080 Caramel, all flavors, sugar free  
91703150 Toblerone, milk chocolate with honey and almond nougat  
91703200 TWIX Caramel Cookie Bars (formerly TWIX Cookie Bars)  
91703250 TWIX Chocolate Fudge Cookie Bars



91703300	TWIX Peanut Butter Cookie Bars
91703400	Whatchamacallit
91703500	Nuts, carob-coated
91703600	Espresso coffee beans, chocolate-covered
91705010	Milk chocolate candy, plain
91705020	Milk chocolate candy, with cereal
91705030	Kit Kat
91705040	Chocolate, milk, with nuts, not almond or peanuts
91705050	Milk chocolate candy, with fruit and nuts
91705060	Milk chocolate candy, with almonds
91705070	Chocolate, milk, with peanuts
91705090	Chocolate candy with fondant and caramel
91705200	Chocolate, semi-sweet morsel
91705300	Chocolate, sweet or dark
91705310	Chocolate, sweet or dark, with almonds
91705400	Chocolate, white
91705410	Chocolate, white, with almonds
91705420	Chocolate, white, with cereal
91705430	Kit Kat White
91705500	Mexican chocolate (tablet)
91706000	Coconut candy, chocolate covered
91706100	Coconut candy, no chocolate covering
91706400	Coconut candy, Puerto Rican style
91707000	Fondant
91707010	Fondant, chocolate covered
91708000	Fruit peel, candied
91708010	Date candy
91708020	Soft fruit confections
91708030	Fruit leather and fruit snacks candy
91708040	Fun Fruits Creme Supremes
91708070	Tamarind candy
91708100	Fruit snacks candy, with high vitamin C
91708150	Yogurt covered fruit snacks candy, with added vitamin C
91708160	Yogurt covered fruit snacks candy rolls, with high vitamin C
91709000	Gumdrops, chocolate covered
91713010	Fudge, chocolate, chocolate-coated
91713020	Fudge, chocolate, chocolate-coated, with nuts
91713030	Fudge, chocolate
91713040	Fudge, chocolate, with nuts
91713050	Fudge, peanut butter
91713060	Fudge, peanut butter, with nuts
91713070	Fudge, vanilla
91713080	Fudge, vanilla, with nuts
91713090	Fudge, divinity
91713100	Fudge, brown sugar (penuche)
91715000	Fudge, caramel and nut, chocolate-coated candy
91715100	SNICKERS Bar
91715200	Baby Ruth
91715300	100 GRAND Bar
91716010	Halvah, plain
91716110	Halvah, chocolate covered
91718100	Butterfinger



91718110	Butterfinger Crisp
91718200	Chocolate-flavored sprinkles
91718300	Ladoo, round ball, Asian-Indian dessert
91721000	Licorice
91723000	Marshmallow
91723010	Marshmallow, chocolate covered
91723020	Marshmallow, candy-coated
91723050	Marshmallow, coconut-coated
91726000	Nougat, plain
91726110	Nougat, with caramel, chocolate covered
91726130	MILKY WAY Bar
91726140	MILKY WAY MIDNIGHT Bar (formerly MILKY WAY DARK Bar)
91726150	MARS Almond Bar (formerly MARS bar)
91726410	Nougat, chocolate covered
91726420	3 MUSKETEERS Bar
91726425	3 Musketeers Truffle Crisp Bar
91727010	Nuts, chocolate covered, not almonds or peanuts
91728000	Nut roll, fudge or nougat, caramel and nuts
91728500	Sugared pecans (sugar and egg white coating)
91731000	Peanuts, chocolate covered
91731010	M&M's Peanut Chocolate Candies
91731060	M&M's Peanut Butter Chocolate Candies
91731100	Peanuts, sugar-coated
91731150	Peanuts, yogurt covered
91732000	Peanut bar
91732100	Planters Peanut Bar
91733000	Peanut brittle
91733200	Peanut Bar, chocolate covered candy
91734000	Peanut butter, chocolate covered
91734100	Reese's Peanut Butter Cup
91734200	Reese's Pieces
91734300	Reese's Sticks
91734400	Reese's Fast Break
91734450	Reese's Crispy Crunchy Bar
91734500	Peanut butter morsels
91735000	Pralines
91736000	Pineapple candy, Puerto Rican style
91739010	Raisins, chocolate covered
91739600	Raisins, yogurt covered
91742010	Sesame Crunch (Sahadi)
91745010	Gumdrops
91745100	Skittles
91746010	Sugar-coated chocolate discs
91746100	M&M's Milk Chocolate Candies (formerly M&M's Plain Chocolate Candies)
91746120	Sixlets
91746150	Easter egg, candy coated chocolate
91746200	M&M's Pretzel Chocolate Candies
91750000	Taffy
91760000	Toffee, plain
91760100	Toffee, chocolate covered
91760200	Toffee, chocolate-coated, with nuts
91760500	Truffles





91760700 Wax candy, liquid filled  
91770010 Dietetic or low calorie gumdrops  
91770030 Dietetic or low calorie candy, chocolate covered  
91770050 Dietetic or low calorie mints

#### **Soups and Soup Mixes**

#### **Soup (including prepared, canned, and dry mix)**

**[Peazazz and Peazac, as protein] = 2%**

14710100 Cheddar cheese soup, home recipe, canned or ready-to-serve  
14710200 Beer cheese soup, made with milk  
27114000 Beef with (mushroom) soup (mixture)  
27120090 Ham or pork with (mushroom) soup (mixture)  
27144000 Chicken or turkey with (mushroom) soup (mixture)  
27250124 Shrimp and noodles with (mushroom) soup (mixture)  
27250710 Tuna and rice with (mushroom) soup (mixture)  
27250830 Fish and rice with (mushroom) soup  
27450650 Shellfish mixture and vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes)), (mushroom) soup (mixture)  
27450660 Shellfish mixture and vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes)), (mushroom) soup (mixture)  
28310150 Oxtail soup  
28310160 Beef broth, with tomato, home recipe  
28310170 Beef broth, without tomato, home recipe  
28310230 Meatball soup, Mexican style, home recipe (Sopa de Albondigas)  
28310320 Beef noodle soup, Puerto Rican style (Sopa de carne y fideos)  
28310330 Meat and rice noodle soup, Asian style (Vietnamese Pho Bo)  
28310420 Beef and rice soup, Puerto Rican style  
28311010 Pepperpot (tripe) soup  
28311020 Menudo soup, home recipe  
28311030 Menudo soup, canned, prepared with water or ready-to-serve  
28315050 Beef vegetable soup with potato, pasta, or rice, chunky style, canned, or ready-to-serve  
28315140 Beef vegetable soup, Mexican style, home recipe, (Sopa / Caldo de Res)  
28315150 Meat and corn hominy soup, Mexican style, home recipe (Pozole)  
28315160 Italian Wedding Soup  
28317010 Beef stroganoff soup, chunky style, home recipe, canned or ready-to-serve  
28320130 Ham, rice, and potato soup, Puerto Rican style  
28320140 Ham, noodle, and vegetable soup, Puerto Rican style  
28320160 Pork vegetable soup with potato, pasta, or rice, stew type, chunky style  
28320300 Pork with vegetable (excluding carrots, broccoli and/or dark-green leafy) soup, Asian Style  
28321130 Bacon soup, cream of, prepared with water  
28331110 Lamb, pasta, and vegetable soup, Puerto Rican style  
28340110 Chicken or turkey broth, bouillon, or consomme  
28340120 Chicken or turkey broth, without tomato, home recipe  
28340130 Chicken or turkey broth, with tomato, home recipe  
28340150 Mexican style chicken broth soup stock  
28340179 Beef broth, less or reduced sodium, canned or ready-to-serve  
28340180 Chicken or turkey broth, less or reduced sodium, canned or ready-to-serve  
28340210 Chicken rice soup, Puerto Rican style (Sopa de pollo con arroz)  
28340220 Chicken soup with noodles and potatoes, Puerto Rican style  
28340310 Chicken or turkey gumbo soup, home recipe, canned or ready-to-serve  
28340510 Chicken or turkey noodle soup, chunky style, canned or ready-to-serve



28340550	Sweet and sour soup
28340580	Chicken or turkey soup with vegetables (broccoli, carrots, celery, potatoes and onions), Asian style
28340590	Chicken or turkey corn soup with noodles, home recipe
28340600	Chicken or turkey vegetable soup, canned, prepared with water or ready-to-serve
28340610	Chicken or turkey vegetable soup, stew type
28340630	Chicken or turkey vegetable soup with rice, stew type, chunky style
28340640	Chicken or turkey vegetable soup with noodles, stew type, chunky style, canned or ready-to-serve
28340660	Chicken or turkey vegetable soup, home recipe
28340670	Chicken or turkey vegetable soup with rice, Mexican style, home recipe (Sopa / Caldo de Pollo)
28340680	Chicken or turkey and corn hominy soup, Mexican style, home recipe (Pozole)
28340690	Chicken or turkey vegetable soup with potato and cheese, chunky style, canned or ready-to-serve
28340700	Bird's nest soup (chicken, ham, and noodles)
28340750	Hot and sour soup
28340800	Chicken or turkey soup with vegetables and fruit, Asian Style
28345010	Chicken or turkey soup, cream of, canned, reduced sodium, NS as to made with milk or water
28345020	Chicken or turkey soup, cream of, canned, reduced sodium, made with milk
28345030	Chicken or turkey soup, cream of, canned, reduced sodium, made with water
28345110	Chicken or turkey soup, cream of, NS as to prepared with milk or water
28345120	Chicken or turkey soup, cream of, prepared with milk
28345130	Chicken or turkey soup, cream of, prepared with water
28345160	Chicken or turkey mushroom soup, cream of, prepared with milk
28345170	Duck soup
28350040	Fish stock, home recipe
28350050	Fish chowder
28350110	Crab soup, NS as to tomato-base or cream style
28350120	Crab soup, tomato-base
28350210	Clam chowder, NS as to Manhattan or New England style
28350220	Clam chowder, Manhattan
28350310	Turtle and vegetable soup
28351110	Fish and vegetable soup, no potatoes (Sopa de pescado y mariscos)
28351120	Fish soup, with potatoes (Sopa de Pescado y Mariscos)
28351160	Codfish, rice, and vegetable soup, Puerto Rican style
28351170	Codfish soup with noodles, Puerto Rican style
28355110	Clam chowder, New England, NS as to prepared with water or milk
28355120	Clam chowder, New England, prepared with milk
28355130	Clam chowder, New England, prepared with water
28355140	Clam chowder, New England, reduced sodium, canned or ready-to-serve
28355210	Crab soup, cream of, prepared with milk
28355250	Lobster bisque
28355260	Lobster gumbo
28355310	Oyster stew
28355350	Salmon soup, cream style
28355410	Shrimp soup, cream of, NS as to prepared with milk or water
28355420	Shrimp soup, cream of, prepared with milk
28355430	Shrimp soup, cream of, prepared with water
28355440	Shrimp gumbo
28355450	Seafood soup with potatoes and vegetables (including carrots, broccoli, and/or dark-green leafy)
28355460	Seafood soup with potatoes and vegetables (excluding carrots, broccoli, and dark-green leafy)
28355470	Seafood soup with vegetables (including carrots, broccoli, and/or dark-green leafy (no potatoes))
28355480	Seafood soup with vegetables (excluding carrots, broccoli, and dark-green leafy (no potatoes))
28360100	Meat broth, Puerto Rican style
28360210	Spanish vegetable soup, Puerto Rican style (Caldo gallego)



32300100	Egg drop soup
32301100	Garlic egg soup, Puerto Rican style (Sopa de ajo)
41601010	Bean soup, NFS
41601020	Bean with bacon or ham soup, canned or ready-to-serve
41601030	Black bean soup, home recipe, canned or ready-to-serve
41601040	Lima bean soup, home recipe, canned or ready-to-serve
41601070	Soybean soup, miso broth
41601080	Pinto bean soup, home recipe, canned or ready-to-serve
41601090	Bean soup, with macaroni, home recipe, canned, or ready-to-serve
41601100	Portuguese bean soup, home recipe, canned or ready-to-serve
41601110	Bean and ham soup, chunky style, canned or ready-to-serve
41601130	Bean soup, mixed beans, home recipe, canned or ready-to-serve
41601140	Bean soup, home recipe
41601160	Bean and ham soup, canned, reduced sodium, prepared with water or ready-to-serve
41601180	Bean and ham soup, home recipe
41601200	Liquid from stewed kidney beans, Puerto Rican style
41602010	Pea and ham soup, chunky style, canned or ready-to-serve
41602020	Garbanzo bean or chickpea soup, home recipe, canned or ready-to-serve
41602030	Split pea and ham soup
41602050	Split pea soup
41602070	Split pea soup, canned, reduced sodium, prepared with water or ready-to-serve
41602090	Split pea and ham soup, canned, reduced sodium, prepared with water or ready-to-serve
41603010	Lentil soup, home recipe, canned, or ready-to-serve
41610100	White bean soup, Puerto Rican style (Sopon de habichuelas blancas)
58400000	Soup, NFS
58400100	Noodle soup, NFS
58400200	Rice soup, NFS
58401010	Barley soup, home recipe, canned, or ready-to-serve
58401200	Barley soup, sweet, with or without nuts, Asian Style
58402010	Beef noodle soup, canned or ready-to-serve
58402020	Beef dumpling soup, home recipe, canned or ready-to-serve
58402030	Beef rice soup, home recipe, canned or ready-to-serve
58402100	Beef noodle soup, home recipe
58403010	Chicken or turkey noodle soup, canned or ready-to-serve
58403040	Chicken or turkey noodle soup, home recipe
58403050	Chicken or turkey noodle soup, cream of, home recipe, canned, or ready-to-serve
58403060	Chicken or turkey noodle soup, reduced sodium, canned or ready-to-serve
58403100	Noodle and potato soup, Puerto Rican style
58404010	Chicken or turkey rice soup, canned, or ready-to-serve
58404030	Chicken or turkey rice soup, home recipe
58404040	Chicken or turkey rice soup, reduced sodium, canned, prepared with water or ready-to-serve
58404050	Chicken or turkey rice soup, reduced sodium, canned, prepared with milk
58404100	Rice and potato soup, Puerto Rican style
58404500	Matzo ball soup
58404510	Chicken or turkey soup with dumplings and potatoes, home recipe, canned, or ready-to-serve
58404520	Chicken or turkey soup with dumplings, home recipe, canned or ready-to-serve
58407010	Instant soup, noodle
58407030	Soup, mostly noodles
58407035	Soup, mostly noodles, reduced sodium
58407050	Instant soup, noodle with egg, shrimp or chicken
58408010	Won ton (wonton) soup
58408500	Noodle soup with vegetables, Asian style



58409000	Noodle soup, with fish ball, shrimp, and dark green leafy vegetable
58421000	Sopa seca (dry soup), Mexican style, NFS
58421020	Sopa de Fideo Aguada, Mexican style noodle soup, home recipe
63415100	Soup, fruit
71801000	Potato soup, NS as to made with milk or water
71801010	Potato soup, cream of, prepared with milk
71801020	Potato soup, prepared with water
71801100	Potato and cheese soup
71803010	Potato chowder
71851010	Plantain soup, Puerto Rican style (Sopa de platano)
72302000	Broccoli soup, prepared with milk, home recipe, canned or ready-to-serve
72302020	Broccoli soup, prepared with water, home recipe, canned, or ready-to-serve
72302100	Broccoli cheese soup, prepared with milk, home recipe, canned, or ready-to-serve
72306000	Watercress broth with shrimp
72307000	Spinach soup
72308000	Dark-green leafy vegetable soup with meat, Asian style
72308500	Dark-green leafy vegetable soup, meatless, Asian style
73501000	Carrot soup, cream of, prepared with milk, home recipe, canned or ready-to-serve
73501010	Carrot with rice soup, cream of, prepared with milk, home recipe, canned or ready-to-serve
73502000	Squash, winter type, soup, home recipe, canned, or ready-to-serve
74601000	Tomato soup, NFS
74601010	Tomato soup, cream of, prepared with milk
74602010	Tomato soup, prepared with water, or ready-to-serve
74602050	Tomato soup, instant type, prepared with water
74602200	Tomato soup, canned, reduced sodium, prepared with water, or ready-to-serve
74602300	Tomato soup, canned, reduced sodium, prepared with milk
74603010	Tomato beef soup, prepared with water
74604010	Tomato beef noodle soup, prepared with water
74604100	Tomato beef rice soup, prepared with water
74604500	Tomato noodle soup, canned, prepared with water or ready-to-serve
74604600	Tomato noodle soup, canned, prepared with milk
74605010	Tomato rice soup, prepared with water
74606010	Tomato vegetable soup, prepared with water
74606020	Tomato vegetable soup with noodles, prepared with water
75600150	Soup, cream of, NFS
75601000	Asparagus soup, cream of, NS as to made with milk or water
75601010	Asparagus soup, cream of, prepared with milk
75601020	Asparagus soup, cream of, prepared with water
75601100	Beet soup (borscht)
75601200	Cabbage soup, home recipe, canned or ready-to-serve
75601210	Cabbage with meat soup, home recipe, canned or ready-to-serve
75603010	Celery soup, cream of, prepared with milk, home recipe, canned or ready-to-serve
75603020	Celery soup, cream of, prepared with water, home recipe, canned or ready-to-serve
75604010	Corn soup, cream of, prepared with milk
75604020	Corn soup, cream of, prepared with water
75604600	Gazpacho
75605010	Leek soup, cream of, prepared with milk
75607000	Mushroom soup, NFS
75607010	Mushroom soup, cream of, prepared with milk
75607020	Mushroom soup, cream of, prepared with water
75607040	Mushroom soup, with meat broth, prepared with water
75607050	Mushroom soup, cream of, low sodium, prepared with water



75607060	Mushroom soup, cream of, NS as to made with milk or water
75607080	Mushroom with chicken soup, cream of, prepared with milk
75607090	Mushroom soup, cream of, canned, reduced sodium, NS as to made with milk or water
75607100	Mushroom soup, cream of, canned, reduced sodium, prepared with milk
75607140	Mushroom soup, cream of, canned, reduced sodium, prepared with water
75608010	Onion soup, cream of, prepared with milk
75608100	Onion soup, French
75608200	Onion soup, made from dry mix
75609010	Pea soup, prepared with milk
75611010	Vegetable soup, cream of, prepared with milk
75612010	Zucchini soup, cream of, prepared with milk
75646010	Shav soup
75647000	Seaweed soup
75649010	Vegetable soup, canned, prepared with water or ready-to-serve
75649040	Vegetable soup, reduced sodium, canned, ready to serve
75649050	Vegetable soup, made from dry mix
75649110	Vegetable soup, home recipe
75649150	Vegetable noodle soup, home recipe
75650990	Minestrone soup, reduced sodium, canned or ready-to-serve
75651000	Minestrone soup, home recipe
75651010	Minestrone soup, canned, prepared with water, or ready-to-serve
75651020	Vegetable beef soup, canned, prepared with water, or ready-to-serve
75651030	Vegetable beef noodle soup, prepared with water
75651040	Vegetable noodle soup, canned, prepared with water, or ready-to-serve
75651070	Vegetable rice soup, canned, prepared with water or ready-to-serve
75651080	Vegetable beef soup with rice, canned, prepared with water or ready-to-serve
75651110	Vegetable chicken rice soup, canned, prepared with water or ready-to-serve
75651140	Vegetable soup with chicken broth, Mexican style, home recipe (Sopa Ranchera)
75651150	Vegetable noodle soup, reduced sodium, canned, prepared with water or ready-to-serve
75652010	Vegetable beef soup, home recipe
75652030	Vegetable beef soup, canned, prepared with milk
75652040	Vegetable beef soup with noodles or pasta, home recipe
75652050	Vegetable beef soup with rice, home recipe
75654010	Vegetarian vegetable soup, prepared with water
75656010	Vegetable soup, Spanish style, stew type
75656020	Vegetable soup, chunky style
75656040	Vegetable soup, with pasta, chunky style
75656060	Vegetable beef soup, chunky style
75657000	Vegetable broth, bouillon

#### **Mixtures containing soup**

(Adjusted for a soup content of 26.5 to 28.5%)

**[Peazz and Pezac, as protein] = 0.53 to 0.57%**

27220150	Sausage and rice with (mushroom) soup (mixture)
27220030	Ham and rice with (mushroom) soup (mixture)
27213400	Beef and rice with (mushroom) soup (mixture)
27243400	Chicken or turkey and rice with (mushroom) soup (mixture)

## 9. APPENDIX II MERIEUX NUTRISCIENCE COA REVIEW

**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 1 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Glyphosate / AMPA			EU Ref Lab for SRM	M-H580	5/16/18
AMPA	<0.01	ppm (w/w)			
Glyphosate	<0.005	ppm (w/w)			
Multi-residue Pesticides			CFIA PMR-006-v1.0	M-H553	5/16/18
<u>Compounds Detected</u>					
(none detected)					
<u>Compounds Not Detected</u>					
Acibenzolar-s-methyl	<0.002	ppm (w/w)			
Alachlor	<0.001	ppm (w/w)			
Aldrin	<0.001	ppm (w/w)			
Allidochlor	<0.001	ppm (w/w)			
Ametryn	<0.001	ppm (w/w)			
Aminocarb	<0.001	ppm (w/w)			
Aramite I	<0.002	ppm (w/w)			
Aramite II	<0.003	ppm (w/w)			
Aspon	<0.001	ppm (w/w)			
Atrazine	<0.002	ppm (w/w)			
Atrazine-desethyl	<0.002	ppm (w/w)			
Azinphos-ethyl	<0.002	ppm (w/w)			
Azinphos-methyl	<0.006	ppm (w/w)			
Azoxystrobin	<0.003	ppm (w/w)			
Benalaxyl	<0.001	ppm (w/w)			
Benfluralin	<0.001	ppm (w/w)			
Benodanil	<0.001	ppm (w/w)			
Benzoylprop ethyl	<0.002	ppm (w/w)			
BHC alpha isomer	<0.001	ppm (w/w)			
BHC beta isomer	<0.001	ppm (w/w)			
BHC delta isomer	<0.001	ppm (w/w)			
Bifenox	<0.002	ppm (w/w)			
Biphenyl	<0.001	ppm (w/w)			

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**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 2 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Bifenthrin	<0.001	ppm (w/w)			
Boscalide	<0.001	ppm (w/w)			
Bromacil	<0.001	ppm (w/w)			
Bromophos-ethyl	<0.001	ppm (w/w)			
Bromophos-methyl	<0.001	ppm (w/w)			
Bromopropylate	<0.002	ppm (w/w)			
Bupirimate	<0.001	ppm (w/w)			
Buprofezin	<0.001	ppm (w/w)			
Butachlor	<0.001	ppm (w/w)			
Butralin	<0.003	ppm (w/w)			
Butylate	<0.002	ppm (w/w)			
Captafol (as Tetrahydroptalimid)	<0.008	ppm (w/w)			
Carbetamide	<0.001	ppm (w/w)			
Captan	<0.004	ppm (w/w)			
Carbofenthion	<0.001	ppm (w/w)			
Carboxin	<0.001	ppm (w/w)			
Chlorbenside	<0.001	ppm (w/w)			
Chlorbufam	<0.003	ppm (w/w)			
Chlordane-cis	<0.001	ppm (w/w)			
Chlordane-trans	<0.002	ppm (w/w)			
Chlordemeform	<0.001	ppm (w/w)			
Chlorfenapyr	<0.001	ppm (w/w)			
Chlorfenson	<0.001	ppm (w/w)			
Chlorfenvinphos-cis	<0.002	ppm (w/w)			
Chlorfenvinphos-trans	<0.001	ppm (w/w)			
Chlorflurenol-methyl	<0.001	ppm (w/w)			
Chloridazon	<0.002	ppm (w/w)			
Chlormephos	<0.002	ppm (w/w)			
Chlorobenzilate	<0.001	ppm (w/w)			
Chloroneb	<0.001	ppm (w/w)			

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**Silliker JR Laboratories, ULC**

 106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 3 of 96	

**TO:**

 Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

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**Analytical Results**


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<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Chloropropilate	<0.001	ppm (w/w)			
Chlorothalonil	<0.001	ppm (w/w)			
Chlorpropham	<0.003	ppm (w/w)			
Chlorpyrifos	<0.001	ppm (w/w)			
Chlorpyrifos-methyl	<0.001	ppm (w/w)			
Chlorthion	<0.002	ppm (w/w)			
Chlorthiophos	<0.002	ppm (w/w)			
Chlozolinate	<0.001	ppm (w/w)			
Clomazone	<0.001	ppm (w/w)			
Coumaphos	<0.002	ppm (w/w)			
Crotoxyphos	<0.003	ppm (w/w)			
Cruformate	<0.001	ppm (w/w)			
Cyanazine	<0.002	ppm (w/w)			
Cyanophos	<0.001	ppm (w/w)			
Cycloate	<0.005	ppm (w/w)			
Cyfluthrin	<0.001	ppm (w/w)			
Cyhalothrin lambda	<0.002	ppm (w/w)			
Cypermethrin	<0.001	ppm (w/w)			
Cyprazine	<0.001	ppm (w/w)			
Cyproconazole	<0.001	ppm (w/w)			
Cyprodinil	<0.001	ppm (w/w)			
Dacthal (Chlorthal-dimethyl)	<0.001	ppm (w/w)			
Deltamethrin	<0.002	ppm (w/w)			
delta-trans-Allethrin	<0.001	ppm (w/w)			
Demeton-o	<0.001	ppm (w/w)			
Demeton-s	<0.001	ppm (w/w)			
Demeton-s-methyl	<0.001	ppm (w/w)			
Desmetryn	<0.001	ppm (w/w)			
Diallate	<0.002	ppm (w/w)			
Diazinon	<0.002	ppm (w/w)			

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106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 4 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Diazinon-o-analog	<0.001	ppm (w/w)			
Dichlobenil	<0.001	ppm (w/w)			
Dichloran	<0.001	ppm (w/w)			
Dichlormid	<0.002	ppm (w/w)			
Dichlorvos	<0.001	ppm (w/w)			
Diclobutrazole	<0.001	ppm (w/w)			
Diclofenthion	<0.001	ppm (w/w)			
Diclofop-methyl	<0.001	ppm (w/w)			
Dicofol	<0.001	ppm (w/w)			
Dieldrin	<0.002	ppm (w/w)			
Diethyl-ethyl	<0.001	ppm (w/w)			
Dimethachlor	<0.001	ppm (w/w)			
Dinitramine	<0.001	ppm (w/w)			
Dioxathion	<0.002	ppm (w/w)			
Diphenamid	<0.001	ppm (w/w)			
Diphenylamine	<0.001	ppm (w/w)			
Disulfoton	<0.002	ppm (w/w)			
Disulfoton sulfone	<0.001	ppm (w/w)			
Edifenphos	<0.001	ppm (w/w)			
Endosulfan alpha	<0.002	ppm (w/w)			
Endosulfan beta	<0.003	ppm (w/w)			
Endosulfan sulfate	<0.001	ppm (w/w)			
Endrin	<0.002	ppm (w/w)			
EPN	<0.001	ppm (w/w)			
EPTC	<0.003	ppm (w/w)			
Erbon	<0.003	ppm (w/w)			
Esfenvalerate	<0.001	ppm (w/w)			
Etaconazole	<0.002	ppm (w/w)			
Ethalfuralin	<0.002	ppm (w/w)			
Ethion	<0.001	ppm (w/w)			

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**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 5 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Ethofumasate	<0.001	ppm (w/w)			
Ethoprophos	<0.001	ppm (w/w)			
Ethylan	<0.001	ppm (w/w)			
Etridiazole	<0.001	ppm (w/w)			
Etrimfos	<0.002	ppm (w/w)			
Fenamiphos	<0.001	ppm (w/w)			
Fenamiphos-sulfone	<0.006	ppm (w/w)			
Fenamiphos-sulfoxide	<0.006	ppm (w/w)			
Fenarimol	<0.001	ppm (w/w)			
Fenbuconazole	<0.001	ppm (w/w)			
Fenclorphos	<0.001	ppm (w/w)			
Fenfuram	<0.001	ppm (w/w)			
Fenitrothion	<0.003	ppm (w/w)			
Fenpropathrin	<0.001	ppm (w/w)			
Fenpropimorph	<0.001	ppm (w/w)			
Fenson	<0.001	ppm (w/w)			
Fensulfothion	<0.002	ppm (w/w)			
Fenthion	<0.001	ppm (w/w)			
Fenvalerate I	<0.001	ppm (w/w)			
Fenvalerate II	<0.001	ppm (w/w)			
Fipronil	<0.001	ppm (w/w)			
Flamprop-isopropyl	<0.001	ppm (w/w)			
Flamprop-methyl	<0.001	ppm (w/w)			
Fluchloralin	<0.003	ppm (w/w)			
Flucythrinate	<0.003	ppm (w/w)			
Fludioxonil	<0.001	ppm (w/w)			
Flumetralin	<0.001	ppm (w/w)			
Flurochloridone	<0.002	ppm (w/w)			
Flurodifen	<0.004	ppm (w/w)			
Flusilazole	<0.002	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
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**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Fluvalinate I+II	<0.002	ppm (w/w)			
Folpet	<0.012	ppm (w/w)			
Fonofos	<0.001	ppm (w/w)			
Heptachlor	<0.002	ppm (w/w)			
Heptachlor epoxide endo	<0.002	ppm (w/w)			
Heptenophos	<0.001	ppm (w/w)			
Hexachlorobenzene	<0.001	ppm (w/w)			
Hexaconazole	<0.001	ppm (w/w)			
Hexazinone	<0.001	ppm (w/w)			
Imazalil	<0.002	ppm (w/w)			
Iodfenphos	<0.001	ppm (w/w)			
Iprobenfos	<0.001	ppm (w/w)			
Iprodione	<0.002	ppm (w/w)			
Isazophos	<0.001	ppm (w/w)			
Isofenphos	<0.001	ppm (w/w)			
Isopropalin	<0.002	ppm (w/w)			
Isoprothiolane	<0.002	ppm (w/w)			
Kresoxin-me	<0.001	ppm (w/w)			
Leptophos	<0.001	ppm (w/w)			
Lindane (gamma-BHC)	<0.001	ppm (w/w)			
Malaoxon	<0.002	ppm (w/w)			
Malathion	<0.001	ppm (w/w)			
Mecarbam	<0.002	ppm (w/w)			
Metalaxyl	<0.001	ppm (w/w)			
Metazachlor	<0.001	ppm (w/w)			
Methamidophos	<0.001	ppm (w/w)			
Methidathion	<0.002	ppm (w/w)			
Methoprotryne	<0.002	ppm (w/w)			
Methoxychlor	<0.001	ppm (w/w)			
Methyl-pentachlorophenyl-sulphide	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 7 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Metolachlor	<0.001	ppm (w/w)				
Metribuzin	<0.001	ppm (w/w)				
Mevinphos-cis	<0.001	ppm (w/w)				
Mevinphos-trans	<0.001	ppm (w/w)				
Mirex	<0.001	ppm (w/w)				
Molinate	<0.001	ppm (w/w)				
Monolinuron	<0.001	ppm (w/w)				
Myclobutanil	<0.001	ppm (w/w)				
Naled	<0.001	ppm (w/w)				
Nitrapyrin	<0.002	ppm (w/w)				
Nitrofen	<0.003	ppm (w/w)				
Nitrothal-isopropyl	<0.001	ppm (w/w)				
Norflurazon	<0.001	ppm (w/w)				
Nuarimol	<0.001	ppm (w/w)				
o,p-DDD	<0.001	ppm (w/w)				
o,p-DDT	<0.001	ppm (w/w)				
o,p-DDE	<0.001	ppm (w/w)				
Octhilinone	<0.001	ppm (w/w)				
Oxadiazon	<0.001	ppm (w/w)				
Oxycloardane	<0.001	ppm (w/w)				
Oxyfluorfen	<0.003	ppm (w/w)				
p,p-DDD	<0.001	ppm (w/w)				
p,p-DDE	<0.001	ppm (w/w)				
p,p-DDT	<0.001	ppm (w/w)				
Paraoxon	<0.002	ppm (w/w)				
Parathion	<0.002	ppm (w/w)				
Parathion-methyl	<0.003	ppm (w/w)				
Pebulate	<0.001	ppm (w/w)				
Penconazole	<0.002	ppm (w/w)				
Pendimethalin	<0.002	ppm (w/w)				

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 8 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Pentachloroanilin	<0.003	ppm (w/w)			
Pentachlorobenzene	<0.001	ppm (w/w)			
Permethrin I	<0.001	ppm (w/w)			
Permethrin II	<0.001	ppm (w/w)			
Phenthoate	<0.001	ppm (w/w)			
Phenylphenol-o	<0.001	ppm (w/w)			
Phorate	<0.002	ppm (w/w)			
Phorate-sulfone	<0.001	ppm (w/w)			
Phosalone	<0.002	ppm (w/w)			
Phosphamidon	<0.002	ppm (w/w)			
Piperonyl Butoxide (PBO)	<0.001	ppm (w/w)			
Pirimicarb	<0.001	ppm (w/w)			
Pirimiphos-ethyl	<0.003	ppm (w/w)			
Pirimiphos-methyl	<0.001	ppm (w/w)			
Prochloraz	<0.001	ppm (w/w)			
Procymidone	<0.001	ppm (w/w)			
Profenofos	<0.003	ppm (w/w)			
Profluralin	<0.002	ppm (w/w)			
Prometon	<0.002	ppm (w/w)			
Prometryne	<0.001	ppm (w/w)			
Pronamide	<0.002	ppm (w/w)			
Propachlor	<0.001	ppm (w/w)			
Propamocarb	<0.001	ppm (w/w)			
Propanil	<0.003	ppm (w/w)			
Propargite	<0.001	ppm (w/w)			
Propazine	<0.001	ppm (w/w)			
Propetamphos	<0.001	ppm (w/w)			
Propham	<0.001	ppm (w/w)			
Propiconazole I + II	<0.001	ppm (w/w)			
Prothiofos	<0.001	ppm (w/w)			

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106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 9 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Pyracarbolid	<0.001	ppm (w/w)			
Pyrazophos	<0.002	ppm (w/w)			
Pyrethrin I	<0.002	ppm (w/w)			
Pyridaben	<0.001	ppm (w/w)			
Quinalphos	<0.001	ppm (w/w)			
Quinomethionate	<0.001	ppm (w/w)			
Quintozene-pentachloronitrobenzene	<0.002	ppm (w/w)			
Secbumeton	<0.002	ppm (w/w)			
Simazine	<0.001	ppm (w/w)			
Simetryn	<0.001	ppm (w/w)			
Sulfallate	<0.001	ppm (w/w)			
Sulfotep	<0.001	ppm (w/w)			
Sulprophos	<0.002	ppm (w/w)			
Tebuconazole	<0.001	ppm (w/w)			
Tecnazene	<0.003	ppm (w/w)			
Terbacil	<0.001	ppm (w/w)			
Terbufos	<0.001	ppm (w/w)			
Terbumeton	<0.001	ppm (w/w)			
Terbutylazine	<0.003	ppm (w/w)			
Terbutryne	<0.001	ppm (w/w)			
Tetrachlorvinphos	<0.002	ppm (w/w)			
Tetradifon	<0.001	ppm (w/w)			
Tetramethrin I	<0.001	ppm (w/w)			
Tetramethrin II	<0.001	ppm (w/w)			
Tetrasul	<0.001	ppm (w/w)			
Thiobencarb	<0.001	ppm (w/w)			
Tolclofos Methyl	<0.001	ppm (w/w)			
Tralomethrin	<0.001	ppm (w/w)			
Triadimefon	<0.001	ppm (w/w)			
Triallate	<0.001	ppm (w/w)			

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COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 10 of 96	

**TO:**

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 Assay Technician  
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Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Triazophos	<0.002	ppm (w/w)				
Tribufos	<0.001	ppm (w/w)				
Trifloxystrobin	<0.001	ppm (w/w)				
Triflumizole	<0.002	ppm (w/w)				
Trifluralin	<0.002	ppm (w/w)				
Vernolate	<0.001	ppm (w/w)				
Vinclozolin	<0.002	ppm (w/w)				
3-OH-carbofuran	<0.001	ppm (w/w)				
Abamectin	<0.005	ppm (w/w)				
Acephate	<0.002	ppm (w/w)				
Acetamipred	<0.002	ppm (w/w)				
Acetochlor	<0.001	ppm (w/w)				
Aclonifen	<0.005	ppm (w/w)				
Aldicarb	<0.002	ppm (w/w)				
Aldicarb sulfone	<0.002	ppm (w/w)				
Aldicarb sulfoxide	<0.002	ppm (w/w)				
Anilofos	<0.001	ppm (w/w)				
Azaconazole	<0.001	ppm (w/w)				
Bendiocarb	<0.001	ppm (w/w)				
Benoxacor	<0.001	ppm (w/w)				
Bensulide	<0.002	ppm (w/w)				
Bitertanol	<0.001	ppm (w/w)				
Bromuconazole	<0.001	ppm (w/w)				
Butafenacil	<0.001	ppm (w/w)				
Butocarboxim sulfoxide	<0.001	ppm (w/w)				
Cadusafos	<0.001	ppm (w/w)				
Carbaryl	<0.002	ppm (w/w)				
Carbofuran	<0.001	ppm (w/w)				
Carbosulfan	<0.005	ppm (w/w)				
Carfentrazone-ethyl	<0.001	ppm (w/w)				

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<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 11 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
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<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Chlorantriliprole	<0.001	ppm (w/w)				
Chlorbromuron	<0.003	ppm (w/w)				
Chlorimuron ethyl	<0.001	ppm (w/w)				
Chloroxuron	<0.001	ppm (w/w)				
Chlorthiamid	<0.002	ppm (w/w)				
Chlortoluron	<0.001	ppm (w/w)				
Clodinafop-propargyl	<0.001	ppm (w/w)				
Cloquintocet-methyl	<0.001	ppm (w/w)				
Clothianidin	<0.001	ppm (w/w)				
Cyanofenphos	<0.001	ppm (w/w)				
Cyazofamid	<0.001	ppm (w/w)				
Cycloxydim	<0.001	ppm (w/w)				
Cycluron	<0.001	ppm (w/w)				
Cyromazine	<0.001	ppm (w/w)				
Demeton-s-methyl-sulfone	<0.001	ppm (w/w)				
Demeton-s-methyl-sulfoxide	<0.001	ppm (w/w)				
Desmedipham	<0.001	ppm (w/w)				
Dialofos	<0.001	ppm (w/w)				
Dichlofulanid	<0.002	ppm (w/w)				
Diclocymet	<0.001	ppm (w/w)				
Dicrotophos	<0.002	ppm (w/w)				
Diethofencarb	<0.001	ppm (w/w)				
Difenoconazole	<0.001	ppm (w/w)				
Dimethametryn	<0.001	ppm (w/w)				
Dimethomorph	<0.001	ppm (w/w)				
Dimethoate	<0.002	ppm (w/w)				
Dimetilan	<0.001	ppm (w/w)				
Dimoxystrobin	<0.001	ppm (w/w)				
Diniconazole	<0.001	ppm (w/w)				
Dioxacarb	<0.002	ppm (w/w)				

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<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 12 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Dipropetryn	<0.001	ppm (w/w)			
Diuron	<0.001	ppm (w/w)			
Dodemorph	<0.001	ppm (w/w)			
Emamectin	<0.001	ppm (w/w)			
Epoxyconazole	<0.001	ppm (w/w)			
Ethiofencarb	<0.001	ppm (w/w)			
Ethiofencarb sulfone	<0.001	ppm (w/w)			
Ethiofencarb sulfoxide	<0.001	ppm (w/w)			
Ethiprole	<0.001	ppm (w/w)			
Ethirimol	<0.001	ppm (w/w)			
Ethoprop	<0.001	ppm (w/w)			
Etofenprox	<0.001	ppm (w/w)			
Etoxazole	<0.001	ppm (w/w)			
Fenamidone	<0.001	ppm (w/w)			
Fenazaquin	<0.001	ppm (w/w)			
Fenhexamid	<0.001	ppm (w/w)			
Fenoxanil	<0.001	ppm (w/w)			
Fenpropidine	<0.001	ppm (w/w)			
Fenpyroximate	<0.001	ppm (w/w)			
Fentrazamide	<0.001	ppm (w/w)			
Fluazifop-butyl	<0.001	ppm (w/w)			
Flubendiamide	<0.001	ppm (w/w)			
Flucarbazone-sodium	<0.001	ppm (w/w)			
Fluoxastrobin	<0.001	ppm (w/w)			
Flutolanil	<0.001	ppm (w/w)			
Flutriafol	<0.001	ppm (w/w)			
Forchlorfenuron	<0.001	ppm (w/w)			
Fosthiazate	<0.001	ppm (w/w)			
Fuberidazole	<0.001	ppm (w/w)			
Furathiocarb	<0.001	ppm (w/w)			

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**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 13 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Griseofulvin	<0.001	ppm (w/w)				
Haloxyfop	<0.001	ppm (w/w)				
Imazamethabenz-methyl	<0.001	ppm (w/w)				
Imidacloprid	<0.001	ppm (w/w)				
Indoxacarb	<0.002	ppm (w/w)				
Ipconazole	<0.001	ppm (w/w)				
Iprovalicarb	<0.001	ppm (w/w)				
Isocarbamide	<0.001	ppm (w/w)				
Isoprocarb	<0.001	ppm (w/w)				
Isoxadifen-ethyl	<0.001	ppm (w/w)				
Isoxathion	<0.001	ppm (w/w)				
Linuron	<0.003	ppm (w/w)				
Mandipropamid	<0.001	ppm (w/w)				
Mepanipyrim	<0.001	ppm (w/w)				
Mephosfolan	<0.001	ppm (w/w)				
Methabenzthiazuron	<0.001	ppm (w/w)				
Methiocarb	<0.002	ppm (w/w)				
Methiocarb sulfone	<0.001	ppm (w/w)				
Methiocarb sulfoxide	<0.002	ppm (w/w)				
Methomyl	<0.001	ppm (w/w)				
Methoxyfenozide	<0.001	ppm (w/w)				
Methyl trithion	<0.002	ppm (w/w)				
Metobromuron	<0.002	ppm (w/w)				
Metolcarb	<0.001	ppm (w/w)				
Metosulam	<0.001	ppm (w/w)				
Metoxuron	<0.001	ppm (w/w)				
Mexacarbate	<0.002	ppm (w/w)				
Monocrotophos	<0.002	ppm (w/w)				
Napropamide	<0.001	ppm (w/w)				
Naptalam	<0.001	ppm (w/w)				

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<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 14 of 96</b>	

**TO:**

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 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Neburon	<0.001	ppm (w/w)			
Nitralin	<0.002	ppm (w/w)			
Ofurace	<0.001	ppm (w/w)			
Omethoate	<0.002	ppm (w/w)			
Oxadixyl	<0.001	ppm (w/w)			
Oxamyl	<0.002	ppm (w/w)			
Oxamyl-oxime	<0.001	ppm (w/w)			
Oxycarboxin	<0.002	ppm (w/w)			
Oxydemeton-me	<0.001	ppm (w/w)			
Paclobutrazol	<0.001	ppm (w/w)			
Pencycuron	<0.001	ppm (w/w)			
Penoxsulam	<0.002	ppm (w/w)			
Phosmet	<0.002	ppm (w/w)			
Picolinafen	<0.001	ppm (w/w)			
Picoxystrobin	<0.001	ppm (w/w)			
Piperophos	<0.001	ppm (w/w)			
Pretilachlor	<0.001	ppm (w/w)			
Primisulfuron-methyl	<0.001	ppm (w/w)			
Prodiamine	<0.001	ppm (w/w)			
Promecarb	<0.002	ppm (w/w)			
Propoxur	<0.002	ppm (w/w)			
Pymetrozine	<0.001	ppm (w/w)			
Pyraclostrobin	<0.001	ppm (w/w)			
Pyraflufen-ethyl	<0.001	ppm (w/w)			
Pyridalyl	<0.001	ppm (w/w)			
Pyridaphenthion	<0.001	ppm (w/w)			
Pyridate	<0.001	ppm (w/w)			
Pyrifenox	<0.001	ppm (w/w)			
Pyrimethanil	<0.001	ppm (w/w)			
Pyriproxyfen	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 15 of 96	

**TO:**

 Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

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**Analytical Results**


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<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Pyroquilon	<0.001	ppm (w/w)			
Pyroxsulam	<0.001	ppm (w/w)			
Quinoxifen	<0.001	ppm (w/w)			
Quizalofop	<0.001	ppm (w/w)			
Quizalofop-ethyl	<0.001	ppm (w/w)			
Schradan	<0.001	ppm (w/w)			
Simeconazole	<0.0002	ppm (w/w)			
Spinosyn a	<0.001	ppm (w/w)			
Spinosyn d	<0.001	ppm (w/w)			
Spirodiclofen	<0.001	ppm (w/w)			
Spiromesifen	<0.001	ppm (w/w)			
Spirotetramat	<0.001	ppm (w/w)			
Spiroxamine	<0.001	ppm (w/w)			
Sulfentrazone	<0.001	ppm (w/w)			
TCMTB	<0.006	ppm (w/w)			
Tebufenozide	<0.001	ppm (w/w)			
Tebufenpyrad	<0.001	ppm (w/w)			
Tebupirimfos	<0.001	ppm (w/w)			
Tepraloxym	<0.001	ppm (w/w)			
Tetraconazole	<0.001	ppm (w/w)			
Thiabendazole	<0.002	ppm (w/w)			
Thiacloprid	<0.001	ppm (w/w)			
Thiamethoxam	<0.001	ppm (w/w)			
Thiazopyr	<0.001	ppm (w/w)			
Thiodicarb	<0.002	ppm (w/w)			
Thiofanox	<0.001	ppm (w/w)			
Thiofanox sulfone	<0.001	ppm (w/w)			
Thiofanox sulfoxide	<0.001	ppm (w/w)			
Thiophanate methyl	<0.005	ppm (w/w)			
Tolfenpyrad	<0.001	ppm (w/w)			

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COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 16 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147721
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A09-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105564		
<b>Desc. 6:</b>	251g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Tolyfluanid	<0.002	ppm (w/w)				
Tralkoxydim	<0.001	ppm (w/w)				
Triadimenol	<0.001	ppm (w/w)				
Trichlorfon	<0.001	ppm (w/w)				
Tricyclazole	<0.003	ppm (w/w)				
Trietazine	<0.001	ppm (w/w)				
Trifloxysulfuron	<0.001	ppm (w/w)				
Triforine	<0.001	ppm (w/w)				
Trimethacarb	<0.001	ppm (w/w)				
Zinophos (thionazin)	<0.001	ppm (w/w)				
Zoxamide	<0.005	ppm (w/w)				
Carbendazim	<0.002	ppm (w/w)				

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Supersedes:	None
COA Date	5/18/18
Page 17 of 96	

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 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

Analyte	Result	Units	Method Reference	Method	Test Date	Loc.
Glyphosate / AMPA			EU Ref Lab for SRM	M-H580	5/16/18	
AMPA	<0.01	ppm (w/w)				
Glyphosate	<0.005	ppm (w/w)				
ICP MS Heavy Metals (4 analytes)			EPA 3050/6020 USP730 M-C043 / M-C032d		5/11/18	
Arsenic	<0.01	ppm (w/w)				
Cadmium	0.041	ppm (w/w)				
Lead	0.04	ppm (w/w)				
Mercury	<0.005	ppm (w/w)				
Multi-residue Pesticides			CFIA PMR-006-v1.0	M-H553	5/16/18	
<u>Compounds Detected</u>						
(none detected)						
<u>Compounds Not Detected</u>						
Acibenzolar-s-methyl	<0.002	ppm (w/w)				
Alachlor	<0.001	ppm (w/w)				
Aldrin	<0.001	ppm (w/w)				
Allidochlor	<0.001	ppm (w/w)				
Ametryn	<0.001	ppm (w/w)				
Aminocarb	<0.001	ppm (w/w)				
Aramite I	<0.002	ppm (w/w)				
Aramite II	<0.003	ppm (w/w)				
Aspon	<0.001	ppm (w/w)				
Atrazine	<0.002	ppm (w/w)				
Atrazine-desethyl	<0.002	ppm (w/w)				
Azinphos-ethyl	<0.002	ppm (w/w)				
Azinphos-methyl	<0.006	ppm (w/w)				
Azoxystrobin	<0.003	ppm (w/w)				
Benalaxyl	<0.001	ppm (w/w)				
Benfluralin	<0.001	ppm (w/w)				
Benodanil	<0.001	ppm (w/w)				
Benzoylprop ethyl	<0.002	ppm (w/w)				

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Supersedes:	None
COA Date	5/18/18
<b>Page 18 of 96</b>	

**TO:**

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Received From:	Winnipeg, MB
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<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
BHC alpha isomer	<0.001	ppm (w/w)			
BHC beta isomer	<0.001	ppm (w/w)			
BHC delta isomer	<0.001	ppm (w/w)			
BifenoX	<0.002	ppm (w/w)			
Biphenyl	<0.001	ppm (w/w)			
Bifenthrin	<0.001	ppm (w/w)			
Boscalide	<0.001	ppm (w/w)			
Bromacil	<0.001	ppm (w/w)			
Bromophos-ethyl	<0.001	ppm (w/w)			
Bromophos-methyl	<0.001	ppm (w/w)			
Bromopropylate	<0.002	ppm (w/w)			
Bupirimate	<0.001	ppm (w/w)			
Buprofezin	<0.001	ppm (w/w)			
Butachlor	<0.001	ppm (w/w)			
Butralin	<0.003	ppm (w/w)			
Butylate	<0.002	ppm (w/w)			
Captafol (as Tetrahydroptalimid)	<0.008	ppm (w/w)			
Carbetamide	<0.001	ppm (w/w)			
Captan	<0.004	ppm (w/w)			
Carbofenthion	<0.001	ppm (w/w)			
Carboxin	<0.001	ppm (w/w)			
Chlorbendside	<0.001	ppm (w/w)			
Chlorbufam	<0.003	ppm (w/w)			
Chlordane-cis	<0.001	ppm (w/w)			
Chlordane-trans	<0.002	ppm (w/w)			
Chlordemeform	<0.001	ppm (w/w)			
Chlorfenapyr	<0.001	ppm (w/w)			
Chlorfenson	<0.001	ppm (w/w)			
Chlorfenvinphos-cis	<0.002	ppm (w/w)			
Chlorfenvinphos-trans	<0.001	ppm (w/w)			

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COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 19 of 96</b>	

**TO:**

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Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Chlorflurenol-methyl	<0.001	ppm (w/w)			
Chloridazon	<0.002	ppm (w/w)			
Chlormephos	<0.002	ppm (w/w)			
Chlorobenzilate	<0.001	ppm (w/w)			
Chloroneb	<0.001	ppm (w/w)			
Chloropropilate	<0.001	ppm (w/w)			
Chlorothalonil	<0.001	ppm (w/w)			
Chlorpropham	<0.003	ppm (w/w)			
Chlorpyrifos	<0.001	ppm (w/w)			
Chlorpyrifos-methyl	<0.001	ppm (w/w)			
Chlorthion	<0.002	ppm (w/w)			
Chlorthiophos	<0.002	ppm (w/w)			
Chlozolinat	<0.001	ppm (w/w)			
Clomazone	<0.001	ppm (w/w)			
Coumaphos	<0.002	ppm (w/w)			
Crotoxyphos	<0.003	ppm (w/w)			
Cruformate	<0.001	ppm (w/w)			
Cyanazine	<0.002	ppm (w/w)			
Cyanophos	<0.001	ppm (w/w)			
Cycloate	<0.005	ppm (w/w)			
Cyfluthrin	<0.001	ppm (w/w)			
Cyhalothrin lambda	<0.002	ppm (w/w)			
Cypermethrin	<0.001	ppm (w/w)			
Cyprazine	<0.001	ppm (w/w)			
Cyproconazole	<0.001	ppm (w/w)			
Cyprodinil	<0.001	ppm (w/w)			
Dacthal (Chlorthal-dimethyl)	<0.001	ppm (w/w)			
Deltamethrin	<0.002	ppm (w/w)			
delta-trans-Allethrin	<0.001	ppm (w/w)			
Demeton-o	<0.001	ppm (w/w)			

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**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 20 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Demeton-s	<0.001	ppm (w/w)				
Demeton-s-methyl	<0.001	ppm (w/w)				
Desmetryn	<0.001	ppm (w/w)				
Diallate	<0.002	ppm (w/w)				
Diazinon	<0.002	ppm (w/w)				
Diazinon-o-analog	<0.001	ppm (w/w)				
Dichlobenil	<0.001	ppm (w/w)				
Dichloran	<0.001	ppm (w/w)				
Dichlormid	<0.002	ppm (w/w)				
Dichlorvos	<0.001	ppm (w/w)				
Diclobutrazole	<0.001	ppm (w/w)				
Diclofenthion	<0.001	ppm (w/w)				
Diclofop-methyl	<0.001	ppm (w/w)				
Dicofol	<0.001	ppm (w/w)				
Dieldrin	<0.002	ppm (w/w)				
Diethyl-ethyl	<0.001	ppm (w/w)				
Dimethachlor	<0.001	ppm (w/w)				
Dinitramine	<0.001	ppm (w/w)				
Dioxathion	<0.002	ppm (w/w)				
Diphenamid	<0.001	ppm (w/w)				
Diphenylamine	<0.001	ppm (w/w)				
Disulfoton	<0.002	ppm (w/w)				
Disulfoton sulfone	<0.001	ppm (w/w)				
Edifenphos	<0.001	ppm (w/w)				
Endosulfan alpha	<0.002	ppm (w/w)				
Endosulfan beta	<0.003	ppm (w/w)				
Endosulfan sulfate	<0.001	ppm (w/w)				
Endrin	<0.002	ppm (w/w)				
EPN	<0.001	ppm (w/w)				
EPTC	<0.003	ppm (w/w)				

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 21 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Erbon	<0.003	ppm (w/w)			
Esfenvalerate	<0.001	ppm (w/w)			
Etaconazole	<0.002	ppm (w/w)			
Ethalfuralin	<0.002	ppm (w/w)			
Ethion	<0.001	ppm (w/w)			
Ethofumasate	<0.001	ppm (w/w)			
Ethoprophos	<0.001	ppm (w/w)			
Ethylan	<0.001	ppm (w/w)			
Etridiazole	<0.001	ppm (w/w)			
Etrimfos	<0.002	ppm (w/w)			
Fenamiphos	<0.001	ppm (w/w)			
Fenamiphos-sulfone	<0.006	ppm (w/w)			
Fenamiphos-sulfoxide	<0.006	ppm (w/w)			
Fenarimol	<0.001	ppm (w/w)			
Fenbuconazole	<0.001	ppm (w/w)			
Fenclorphan	<0.001	ppm (w/w)			
Fenfuram	<0.001	ppm (w/w)			
Fenitrothion	<0.003	ppm (w/w)			
Fenproprathrin	<0.001	ppm (w/w)			
Fenpropimorph	<0.001	ppm (w/w)			
Fenson	<0.001	ppm (w/w)			
Fensulfothion	<0.002	ppm (w/w)			
Fenthion	<0.001	ppm (w/w)			
Fenvalerate I	<0.001	ppm (w/w)			
Fenvalerate II	<0.001	ppm (w/w)			
Fipronil	<0.001	ppm (w/w)			
Flamprop-isopropyl	<0.001	ppm (w/w)			
Flamprop-methyl	<0.001	ppm (w/w)			
Fluchloralin	<0.003	ppm (w/w)			
Flucythrinate	<0.003	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 22 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Fludioxonil	<0.001	ppm (w/w)			
Flumetralin	<0.001	ppm (w/w)			
Flurochloridone	<0.002	ppm (w/w)			
Flurodifen	<0.004	ppm (w/w)			
Flusilazole	<0.002	ppm (w/w)			
Fluvalinate I+II	<0.002	ppm (w/w)			
Folpet	<0.012	ppm (w/w)			
Fonofos	<0.001	ppm (w/w)			
Heptachlor	<0.002	ppm (w/w)			
Heptachlor epoxide endo	<0.002	ppm (w/w)			
Heptenophos	<0.001	ppm (w/w)			
Hexachlorobenzene	<0.001	ppm (w/w)			
Hexaconazole	<0.001	ppm (w/w)			
Hexazinone	<0.001	ppm (w/w)			
Imazalil	<0.002	ppm (w/w)			
Iodfenphos	<0.001	ppm (w/w)			
Iprobenfos	<0.001	ppm (w/w)			
Iprodione	<0.002	ppm (w/w)			
Isazophos	<0.001	ppm (w/w)			
Isofenphos	<0.001	ppm (w/w)			
Isopropalin	<0.002	ppm (w/w)			
Isoprothiolane	<0.002	ppm (w/w)			
Kresoxin-me	<0.001	ppm (w/w)			
Leptophos	<0.001	ppm (w/w)			
Lindane (gamma-BHC)	<0.001	ppm (w/w)			
Malaoxon	<0.002	ppm (w/w)			
Malathion	<0.001	ppm (w/w)			
Mecarbam	<0.002	ppm (w/w)			
Metalaxyl	<0.001	ppm (w/w)			
Metazachlor	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 23 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Methamidophos	<0.001	ppm (w/w)			
Methidathion	<0.002	ppm (w/w)			
Methoprotrotyne	<0.002	ppm (w/w)			
Methoxychlor	<0.001	ppm (w/w)			
Methyl-pentachlorophenyl-sulphide	<0.001	ppm (w/w)			
Metolachlor	<0.001	ppm (w/w)			
Metribuzin	<0.001	ppm (w/w)			
Mevinphos-cis	<0.001	ppm (w/w)			
Mevinphos-trans	<0.001	ppm (w/w)			
Mirex	<0.001	ppm (w/w)			
Molinate	<0.001	ppm (w/w)			
Monolinuron	<0.001	ppm (w/w)			
Myclobutanil	<0.001	ppm (w/w)			
Naled	<0.001	ppm (w/w)			
Nitrapyrin	<0.002	ppm (w/w)			
Nitrofen	<0.003	ppm (w/w)			
Nitrothal-isopropyl	<0.001	ppm (w/w)			
Norflurazon	<0.001	ppm (w/w)			
Nuarimol	<0.001	ppm (w/w)			
o,p-DDD	<0.001	ppm (w/w)			
o,p-DDT	<0.001	ppm (w/w)			
o,p-DDE	<0.001	ppm (w/w)			
Octhilineone	<0.001	ppm (w/w)			
Oxadiazon	<0.001	ppm (w/w)			
Oxyclordane	<0.001	ppm (w/w)			
Oxyfluorfen	<0.003	ppm (w/w)			
p,p-DDD	<0.001	ppm (w/w)			
p,p-DDE	<0.001	ppm (w/w)			
p,p-DDT	<0.001	ppm (w/w)			
Paraoxon	<0.002	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 24 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Parathion	<0.002	ppm (w/w)				
Parathion-methyl	<0.003	ppm (w/w)				
Pebulate	<0.001	ppm (w/w)				
Penconazole	<0.002	ppm (w/w)				
Pendimethalin	<0.002	ppm (w/w)				
Pentachloroanilin	<0.003	ppm (w/w)				
Pentachlorobenzene	<0.001	ppm (w/w)				
Permethrin I	<0.001	ppm (w/w)				
Permethrin II	<0.001	ppm (w/w)				
Phenthoate	<0.001	ppm (w/w)				
Phenylphenol-o	<0.001	ppm (w/w)				
Phorate	<0.002	ppm (w/w)				
Phorate-sulfone	<0.001	ppm (w/w)				
Phosalone	<0.002	ppm (w/w)				
Phosphamidon	<0.002	ppm (w/w)				
Piperonyl Butoxide (PBO)	<0.001	ppm (w/w)				
Pirimicarb	<0.001	ppm (w/w)				
Pirimiphos-ethyl	<0.003	ppm (w/w)				
Pirimiphos-methyl	<0.001	ppm (w/w)				
Prochloraz	<0.001	ppm (w/w)				
Procymidone	<0.001	ppm (w/w)				
Profenofos	<0.003	ppm (w/w)				
Profluralin	<0.002	ppm (w/w)				
Prometon	<0.002	ppm (w/w)				
Prometryne	<0.001	ppm (w/w)				
Pronamide	<0.002	ppm (w/w)				
Propachlor	<0.001	ppm (w/w)				
Propamocarb	<0.001	ppm (w/w)				
Propanil	<0.003	ppm (w/w)				
Propargite	<0.001	ppm (w/w)				

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 Tel. 604-432-9311 Fax. 604-432-7768

<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 25 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Propazine	<0.001	ppm (w/w)			
Propetamphos	<0.001	ppm (w/w)			
Propham	<0.001	ppm (w/w)			
Propiconazole I + II	<0.001	ppm (w/w)			
Prothiofos	<0.001	ppm (w/w)			
Pyracarbolid	<0.001	ppm (w/w)			
Pyrazophos	<0.002	ppm (w/w)			
Pyrethrin I	<0.002	ppm (w/w)			
Pyridaben	<0.001	ppm (w/w)			
Quinalphos	<0.001	ppm (w/w)			
Quinomethionate	<0.001	ppm (w/w)			
Quintozene-pentachloronitrobenzene	<0.002	ppm (w/w)			
Secbumeton	<0.002	ppm (w/w)			
Simazine	<0.001	ppm (w/w)			
Simetryn	<0.001	ppm (w/w)			
Sulfallate	<0.001	ppm (w/w)			
Sulfotep	<0.001	ppm (w/w)			
Sulprophos	<0.002	ppm (w/w)			
Tebuconazole	<0.001	ppm (w/w)			
Tecnazene	<0.003	ppm (w/w)			
Terbacil	<0.001	ppm (w/w)			
Terbufos	<0.001	ppm (w/w)			
Terbumeton	<0.001	ppm (w/w)			
Terbutylazine	<0.003	ppm (w/w)			
Terbutryne	<0.001	ppm (w/w)			
Tetrachlorvinphos	<0.002	ppm (w/w)			
Tetradifon	<0.001	ppm (w/w)			
Tetramethrin I	<0.001	ppm (w/w)			
Tetramethrin II	<0.001	ppm (w/w)			
Tetrasul	<0.001	ppm (w/w)			

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COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 26 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Thiobencarb	<0.001	ppm (w/w)				
Tolclofos Methyl	<0.001	ppm (w/w)				
Tralomethrin	<0.001	ppm (w/w)				
Triadimefon	<0.001	ppm (w/w)				
Triallate	<0.001	ppm (w/w)				
Triazophos	<0.002	ppm (w/w)				
Tribufos	<0.001	ppm (w/w)				
Trifloxystrobin	<0.001	ppm (w/w)				
Triflumizole	<0.002	ppm (w/w)				
Trifluralin	<0.002	ppm (w/w)				
Vernolate	<0.001	ppm (w/w)				
Vinclozolin	<0.002	ppm (w/w)				
3-OH-carbofuran	<0.001	ppm (w/w)				
Abamectin	<0.005	ppm (w/w)				
Acephate	<0.002	ppm (w/w)				
Acetamipred	<0.002	ppm (w/w)				
Acetochlor	<0.001	ppm (w/w)				
Aclonifen	<0.005	ppm (w/w)				
Aldicarb	<0.002	ppm (w/w)				
Aldicarb sulfone	<0.002	ppm (w/w)				
Aldicarb sulfoxide	<0.002	ppm (w/w)				
Anilofos	<0.001	ppm (w/w)				
Azaconazole	<0.001	ppm (w/w)				
Bendiocarb	<0.001	ppm (w/w)				
Benoxacor	<0.001	ppm (w/w)				
Bensulide	<0.002	ppm (w/w)				
Bitertanol	<0.001	ppm (w/w)				
Bromuconazole	<0.001	ppm (w/w)				
Butafenacil	<0.001	ppm (w/w)				
Butocarboxim sulfoxide	<0.001	ppm (w/w)				

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 27 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Cadusafos	<0.001	ppm (w/w)			
Carbaryl	<0.002	ppm (w/w)			
Carbofuran	<0.001	ppm (w/w)			
Carbosulfan	<0.005	ppm (w/w)			
Carfentrazone-ethyl	<0.001	ppm (w/w)			
Chlorantriliprole	<0.001	ppm (w/w)			
Chlorbromuron	<0.003	ppm (w/w)			
Chlorimuron ethyl	<0.001	ppm (w/w)			
Chloroxuron	<0.001	ppm (w/w)			
Chlorthiamid	<0.002	ppm (w/w)			
Chlortoluron	<0.001	ppm (w/w)			
Clodinafop-propargyl	<0.001	ppm (w/w)			
Cloquintocet-methyl	<0.001	ppm (w/w)			
Clothianidin	<0.001	ppm (w/w)			
Cyanofenphos	<0.001	ppm (w/w)			
Cyazofamid	<0.001	ppm (w/w)			
Cycloxydim	<0.001	ppm (w/w)			
Cycluron	<0.001	ppm (w/w)			
Cyromazine	<0.001	ppm (w/w)			
Demeton-s-methyl-sulfone	<0.001	ppm (w/w)			
Demeton-s-methyl-sulfoxide	<0.001	ppm (w/w)			
Desmedipham	<0.001	ppm (w/w)			
Dialofos	<0.001	ppm (w/w)			
Dichlofulanid	<0.002	ppm (w/w)			
Diclocymet	<0.001	ppm (w/w)			
Dicrotophos	<0.002	ppm (w/w)			
Diethofencarb	<0.001	ppm (w/w)			
Difenoconazole	<0.001	ppm (w/w)			
Dimethametryn	<0.001	ppm (w/w)			
Dimethomorph	<0.001	ppm (w/w)			

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**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 28 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Dimethoate	<0.002	ppm (w/w)			
Dimetilan	<0.001	ppm (w/w)			
Dimoxystrobin	<0.001	ppm (w/w)			
Diniconazole	<0.001	ppm (w/w)			
Dioxacarb	<0.002	ppm (w/w)			
Dipropetryn	<0.001	ppm (w/w)			
Diuron	<0.001	ppm (w/w)			
Dodemorph	<0.001	ppm (w/w)			
Emamectin	<0.001	ppm (w/w)			
Epoxyconazole	<0.001	ppm (w/w)			
Ethiofencarb	<0.001	ppm (w/w)			
Ethiofencarb sulfone	<0.001	ppm (w/w)			
Ethiofencarb sulfoxide	<0.001	ppm (w/w)			
Ethiprole	<0.001	ppm (w/w)			
Ethirimol	<0.001	ppm (w/w)			
Ethoprop	<0.001	ppm (w/w)			
Etofenprox	<0.001	ppm (w/w)			
Etoxazole	<0.001	ppm (w/w)			
Fenamidone	<0.001	ppm (w/w)			
Fenazaquin	<0.001	ppm (w/w)			
Fenhexamid	<0.001	ppm (w/w)			
Fenoxanil	<0.001	ppm (w/w)			
Fenpropidine	<0.001	ppm (w/w)			
Fenpyroximate	<0.001	ppm (w/w)			
Fentrazamide	<0.001	ppm (w/w)			
Fluazifop-butyl	<0.001	ppm (w/w)			
Flubendiamide	<0.001	ppm (w/w)			
Flucarbazone-sodium	<0.001	ppm (w/w)			
Fluoxastrobin	<0.001	ppm (w/w)			
Flutolanil	<0.001	ppm (w/w)			

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**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 29 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Flutriafol	<0.001	ppm (w/w)				
Forchlorfenuron	<0.001	ppm (w/w)				
Fosthiazate	<0.001	ppm (w/w)				
Fuberidazole	<0.001	ppm (w/w)				
Furathiocarb	<0.001	ppm (w/w)				
Griseofulvin	<0.001	ppm (w/w)				
Haloxyfop	<0.001	ppm (w/w)				
Imazamethabenz-methyl	<0.001	ppm (w/w)				
Imidacloprid	<0.001	ppm (w/w)				
Indoxacarb	<0.002	ppm (w/w)				
Ipconazole	<0.001	ppm (w/w)				
Iprovalicarb	<0.001	ppm (w/w)				
Isocarbamide	<0.001	ppm (w/w)				
Isoproc carb	<0.001	ppm (w/w)				
Isoxadifen-ethyl	<0.001	ppm (w/w)				
Isoxathion	<0.001	ppm (w/w)				
Linuron	<0.003	ppm (w/w)				
Mandipropamid	<0.001	ppm (w/w)				
Mepanipyrim	<0.001	ppm (w/w)				
Mephosfolan	<0.001	ppm (w/w)				
Methabenzthiazuron	<0.001	ppm (w/w)				
Methiocarb	<0.002	ppm (w/w)				
Methiocarb sulfone	<0.001	ppm (w/w)				
Methiocarb sulfoxide	<0.002	ppm (w/w)				
Methomyl	<0.001	ppm (w/w)				
Methoxyfenozide	<0.001	ppm (w/w)				
Methyl trithion	<0.002	ppm (w/w)				
Metobromuron	<0.002	ppm (w/w)				
Metolcarb	<0.001	ppm (w/w)				
Metosulam	<0.001	ppm (w/w)				

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**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 30 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Metoxuron	<0.001	ppm (w/w)			
Mexacarbate	<0.002	ppm (w/w)			
Monocrotophos	<0.002	ppm (w/w)			
Napropamide	<0.001	ppm (w/w)			
Naptalam	<0.001	ppm (w/w)			
Neburon	<0.001	ppm (w/w)			
Nitralin	<0.002	ppm (w/w)			
Ofurace	<0.001	ppm (w/w)			
Omethoate	<0.002	ppm (w/w)			
Oxadixyl	<0.001	ppm (w/w)			
Oxamyl	<0.002	ppm (w/w)			
Oxamyl-oxime	<0.001	ppm (w/w)			
Oxycarboxin	<0.002	ppm (w/w)			
Oxydemeton-me	<0.001	ppm (w/w)			
Paclobutrazol	<0.001	ppm (w/w)			
Pencycuron	<0.001	ppm (w/w)			
Penoxsulam	<0.002	ppm (w/w)			
Phosmet	<0.002	ppm (w/w)			
Picolinafen	<0.001	ppm (w/w)			
Picoxystrobin	<0.001	ppm (w/w)			
Piperophos	<0.001	ppm (w/w)			
Pretilachlor	<0.001	ppm (w/w)			
Primisulfuron-methyl	<0.001	ppm (w/w)			
Prodiamine	<0.001	ppm (w/w)			
Promecarb	<0.002	ppm (w/w)			
Propoxur	<0.002	ppm (w/w)			
Pymetrozine	<0.001	ppm (w/w)			
Pyraclostrobin	<0.001	ppm (w/w)			
Pyraflufen-ethyl	<0.001	ppm (w/w)			
Pyridalyl	<0.001	ppm (w/w)			

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**Silliker JR Laboratories, ULC**

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 Tel. 604-432-9311 Fax. 604-432-7768

<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 31 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Pyridaphenthion	<0.001	ppm (w/w)			
Pyridate	<0.001	ppm (w/w)			
Pyrifenox	<0.001	ppm (w/w)			
Pyrimethanil	<0.001	ppm (w/w)			
Pyriproxyfen	<0.001	ppm (w/w)			
Pyroquilon	<0.001	ppm (w/w)			
Pyroxsulam	<0.001	ppm (w/w)			
Quinoxifen	<0.001	ppm (w/w)			
Quizalofop	<0.001	ppm (w/w)			
Quizalofop-ethyl	<0.001	ppm (w/w)			
Schradan	<0.001	ppm (w/w)			
Simeconazole	<0.0002	ppm (w/w)			
Spinosyn a	<0.001	ppm (w/w)			
Spinosyn d	<0.001	ppm (w/w)			
Spirodiclofen	<0.001	ppm (w/w)			
Spiromesifen	<0.001	ppm (w/w)			
Spirotetramat	<0.001	ppm (w/w)			
Spiroxamine	<0.001	ppm (w/w)			
Sulfentrazone	<0.001	ppm (w/w)			
TCMTB	<0.006	ppm (w/w)			
Tebufenozide	<0.001	ppm (w/w)			
Tebufenpyrad	<0.001	ppm (w/w)			
Tebupirimfos	<0.001	ppm (w/w)			
Tepraloxydim	<0.001	ppm (w/w)			
Tetraconazole	<0.001	ppm (w/w)			
Thiabendazole	<0.002	ppm (w/w)			
Thiacloprid	<0.001	ppm (w/w)			
Thiamethoxam	<0.001	ppm (w/w)			
Thiazopyr	<0.001	ppm (w/w)			
Thiodicarb	<0.002	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 32 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147745
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	A18-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	105729		
<b>Desc. 6:</b>	454g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Thiofanox	<0.001	ppm (w/w)			
Thiofanox sulfone	<0.001	ppm (w/w)			
Thiofanox sulfoxide	<0.001	ppm (w/w)			
Thiophanate methyl	<0.005	ppm (w/w)			
Tolfenpyrad	<0.001	ppm (w/w)			
Tolyfluanid	<0.002	ppm (w/w)			
Tralkoxydim	<0.001	ppm (w/w)			
Triadimenol	<0.001	ppm (w/w)			
Trichlorfon	<0.001	ppm (w/w)			
Tricyclazole	<0.003	ppm (w/w)			
Trietazine	<0.001	ppm (w/w)			
Trifloxysulfuron	<0.001	ppm (w/w)			
Triforine	<0.001	ppm (w/w)			
Trimethacarb	<0.001	ppm (w/w)			
Zinophos (thionazin)	<0.001	ppm (w/w)			
Zoxamide	<0.005	ppm (w/w)			
Carbendazim	<0.002	ppm (w/w)			
Mycotoxin Screen			WGFLMM BFCL050 v2M-H561		5/18/18
Aflatoxin B1	<0.5	ppb (w/w)			
Aflatoxin B2	<0.3	ppb (w/w)			
Aflatoxin G1	<0.7	ppb (w/w)			
Aflatoxin G2	<0.9	ppb (w/w)			
Deoxynivalenol	<10	ppb (w/w)			
Fumonisin B1	<4	ppb (w/w)			
Fumonisin B2	<10	ppb (w/w)			
Fumonisin B3	<8	ppb (w/w)			
Ochratoxin	<0.8	ppb (w/w)			
T-2 Toxin	<9	ppb (w/w)			
Zearalenone	<7	ppb (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 33 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Glyphosate / AMPA			EU Ref Lab for SRM	M-H580	5/16/18
AMPA	<0.01	ppm (w/w)			
Glyphosate	0.062	ppm (w/w)			
Multi-residue Pesticides			CFIA PMR-006-v1.0	M-H553	5/16/18
<u>Compounds Detected</u>					
(none detected)					
<u>Compounds Not Detected</u>					
Acibenzolar-s-methyl	<0.002	ppm (w/w)			
Alachlor	<0.001	ppm (w/w)			
Aldrin	<0.001	ppm (w/w)			
Allidochlor	<0.001	ppm (w/w)			
Ametryn	<0.001	ppm (w/w)			
Aminocarb	<0.001	ppm (w/w)			
Aramite I	<0.002	ppm (w/w)			
Aramite II	<0.003	ppm (w/w)			
Aspon	<0.001	ppm (w/w)			
Atrazine	<0.002	ppm (w/w)			
Atrazine-desethyl	<0.002	ppm (w/w)			
Azinphos-ethyl	<0.002	ppm (w/w)			
Azinphos-methyl	<0.006	ppm (w/w)			
Azoxystrobin	<0.003	ppm (w/w)			
Benalaxyl	<0.001	ppm (w/w)			
Benfluralin	<0.001	ppm (w/w)			
Benodanil	<0.001	ppm (w/w)			
Benzoylprop ethyl	<0.002	ppm (w/w)			
BHC alpha isomer	<0.001	ppm (w/w)			
BHC beta isomer	<0.001	ppm (w/w)			
BHC delta isomer	<0.001	ppm (w/w)			
Bifenox	<0.002	ppm (w/w)			
Biphenyl	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 34 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Bifenthrin	<0.001	ppm (w/w)			
Boscalide	<0.001	ppm (w/w)			
Bromacil	<0.001	ppm (w/w)			
Bromophos-ethyl	<0.001	ppm (w/w)			
Bromophos-methyl	<0.001	ppm (w/w)			
Bromopropylate	<0.002	ppm (w/w)			
Bupirimate	<0.001	ppm (w/w)			
Buprofezin	<0.001	ppm (w/w)			
Butachlor	<0.001	ppm (w/w)			
Butralin	<0.003	ppm (w/w)			
Butylate	<0.002	ppm (w/w)			
Captafol (as Tetrahydroptalimid)	<0.008	ppm (w/w)			
Carbetamide	<0.001	ppm (w/w)			
Captan	<0.004	ppm (w/w)			
Carbofenthion	<0.001	ppm (w/w)			
Carboxin	<0.001	ppm (w/w)			
Chlorbenside	<0.001	ppm (w/w)			
Chlorbufam	<0.003	ppm (w/w)			
Chlordane-cis	<0.001	ppm (w/w)			
Chlordane-trans	<0.002	ppm (w/w)			
Chlordemeform	<0.001	ppm (w/w)			
Chlorfenapyr	<0.001	ppm (w/w)			
Chlorfenson	<0.001	ppm (w/w)			
Chlorfenvinphos-cis	<0.002	ppm (w/w)			
Chlorfenvinphos-trans	<0.001	ppm (w/w)			
Chlorflurenol-methyl	<0.001	ppm (w/w)			
Chloridazon	<0.002	ppm (w/w)			
Chlormephos	<0.002	ppm (w/w)			
Chlorobenzilate	<0.001	ppm (w/w)			
Chloroneb	<0.001	ppm (w/w)			

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**Silliker JR Laboratories, ULC**

 106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 35 of 96</b>	

**TO:**

 Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

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**Analytical Results**


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<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Chloropropilate	<0.001	ppm (w/w)			
Chlorothalonil	<0.001	ppm (w/w)			
Chlorpropham	<0.003	ppm (w/w)			
Chlorpyrifos	<0.001	ppm (w/w)			
Chlorpyrifos-methyl	<0.001	ppm (w/w)			
Chlorthion	<0.002	ppm (w/w)			
Chlorthiophos	<0.002	ppm (w/w)			
Chlozolate	<0.001	ppm (w/w)			
Clomazone	<0.001	ppm (w/w)			
Coumaphos	<0.002	ppm (w/w)			
Crotoxyphos	<0.003	ppm (w/w)			
Cruformate	<0.001	ppm (w/w)			
Cyanazine	<0.002	ppm (w/w)			
Cyanophos	<0.001	ppm (w/w)			
Cycloate	<0.005	ppm (w/w)			
Cyfluthrin	<0.001	ppm (w/w)			
Cyhalothrin lambda	<0.002	ppm (w/w)			
Cypermethrin	<0.001	ppm (w/w)			
Cyprazine	<0.001	ppm (w/w)			
Cyproconazole	<0.001	ppm (w/w)			
Cyprodinil	<0.001	ppm (w/w)			
Dacthal (Chlorthal-dimethyl)	<0.001	ppm (w/w)			
Deltamethrin	<0.002	ppm (w/w)			
delta-trans-Allethrin	<0.001	ppm (w/w)			
Demeton-o	<0.001	ppm (w/w)			
Demeton-s	<0.001	ppm (w/w)			
Demeton-s-methyl	<0.001	ppm (w/w)			
Desmetryn	<0.001	ppm (w/w)			
Diallate	<0.002	ppm (w/w)			
Diazinon	<0.002	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 36 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Diazinon-o-analog	<0.001	ppm (w/w)				
Dichlobenil	<0.001	ppm (w/w)				
Dichloran	<0.001	ppm (w/w)				
Dichlormid	<0.002	ppm (w/w)				
Dichlorvos	<0.001	ppm (w/w)				
Diclobutrazole	<0.001	ppm (w/w)				
Diclofenthion	<0.001	ppm (w/w)				
Diclofop-methyl	<0.001	ppm (w/w)				
Dicofol	<0.001	ppm (w/w)				
Dieldrin	<0.002	ppm (w/w)				
Diethyl-ethyl	<0.001	ppm (w/w)				
Dimethachlor	<0.001	ppm (w/w)				
Dinitramine	<0.001	ppm (w/w)				
Dioxathion	<0.002	ppm (w/w)				
Diphenamid	<0.001	ppm (w/w)				
Diphenylamine	<0.001	ppm (w/w)				
Disulfoton	<0.002	ppm (w/w)				
Disulfoton sulfone	<0.001	ppm (w/w)				
Edifenphos	<0.001	ppm (w/w)				
Endosulfan alpha	<0.002	ppm (w/w)				
Endosulfan beta	<0.003	ppm (w/w)				
Endosulfan sulfate	<0.001	ppm (w/w)				
Endrin	<0.002	ppm (w/w)				
EPN	<0.001	ppm (w/w)				
EPTC	<0.003	ppm (w/w)				
Erbon	<0.003	ppm (w/w)				
Esfenvalerate	<0.001	ppm (w/w)				
Etaconazole	<0.002	ppm (w/w)				
Ethalfuralin	<0.002	ppm (w/w)				
Ethion	<0.001	ppm (w/w)				

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 37 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Ethofumasate	<0.001	ppm (w/w)			
Ethoprophos	<0.001	ppm (w/w)			
Ethylan	<0.001	ppm (w/w)			
Etridiazole	<0.001	ppm (w/w)			
Etrimfos	<0.002	ppm (w/w)			
Fenamiphos	<0.001	ppm (w/w)			
Fenamiphos-sulfone	<0.006	ppm (w/w)			
Fenamiphos-sulfoxide	<0.006	ppm (w/w)			
Fenarimol	<0.001	ppm (w/w)			
Fenbuconazole	<0.001	ppm (w/w)			
Fenclorphos	<0.001	ppm (w/w)			
Fenfuram	<0.001	ppm (w/w)			
Fenitrothion	<0.003	ppm (w/w)			
Fenpropathrin	<0.001	ppm (w/w)			
Fenpropimorph	<0.001	ppm (w/w)			
Fenson	<0.001	ppm (w/w)			
Fensulfothion	<0.002	ppm (w/w)			
Fenthion	<0.001	ppm (w/w)			
Fenvalerate I	<0.001	ppm (w/w)			
Fenvalerate II	<0.001	ppm (w/w)			
Fipronil	<0.001	ppm (w/w)			
Flamprop-isopropyl	<0.001	ppm (w/w)			
Flamprop-methyl	<0.001	ppm (w/w)			
Fluchloralin	<0.003	ppm (w/w)			
Flucythrinate	<0.003	ppm (w/w)			
Fludioxonil	<0.001	ppm (w/w)			
Flumetralin	<0.001	ppm (w/w)			
Flurochloridone	<0.002	ppm (w/w)			
Flurodifen	<0.004	ppm (w/w)			
Flusilazole	<0.002	ppm (w/w)			

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 106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
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**TO:**

 Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

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**Analytical Results**


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<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Fluvalinate I+II	<0.002	ppm (w/w)			
Folpet	<0.012	ppm (w/w)			
Fonofos	<0.001	ppm (w/w)			
Heptachlor	<0.002	ppm (w/w)			
Heptachlor epoxide endo	<0.002	ppm (w/w)			
Heptenophos	<0.001	ppm (w/w)			
Hexachlorobenzene	<0.001	ppm (w/w)			
Hexaconazole	<0.001	ppm (w/w)			
Hexazinone	<0.001	ppm (w/w)			
Imazalil	<0.002	ppm (w/w)			
Iodfenphos	<0.001	ppm (w/w)			
Iprobenfos	<0.001	ppm (w/w)			
Iprodione	<0.002	ppm (w/w)			
Isazophos	<0.001	ppm (w/w)			
Isofenphos	<0.001	ppm (w/w)			
Isopropalin	<0.002	ppm (w/w)			
Isoprothiolane	<0.002	ppm (w/w)			
Kresoxin-me	<0.001	ppm (w/w)			
Leptophos	<0.001	ppm (w/w)			
Lindane (gamma-BHC)	<0.001	ppm (w/w)			
Malaoxon	<0.002	ppm (w/w)			
Malathion	<0.001	ppm (w/w)			
Mecarbam	<0.002	ppm (w/w)			
Metalaxyl	<0.001	ppm (w/w)			
Metazachlor	<0.001	ppm (w/w)			
Methamidophos	<0.001	ppm (w/w)			
Methidathion	<0.002	ppm (w/w)			
Methoprotryne	<0.002	ppm (w/w)			
Methoxychlor	<0.001	ppm (w/w)			
Methyl-pentachlorophenyl-sulphide	<0.001	ppm (w/w)			

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106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 39 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Metolachlor	<0.001	ppm (w/w)				
Metribuzin	<0.001	ppm (w/w)				
Mevinphos-cis	<0.001	ppm (w/w)				
Mevinphos-trans	<0.001	ppm (w/w)				
Mirex	<0.001	ppm (w/w)				
Molinate	<0.001	ppm (w/w)				
Monolinuron	<0.001	ppm (w/w)				
Myclobutanil	<0.001	ppm (w/w)				
Naled	<0.001	ppm (w/w)				
Nitrapyrin	<0.002	ppm (w/w)				
Nitrofen	<0.003	ppm (w/w)				
Nitrothal-isopropyl	<0.001	ppm (w/w)				
Norflurazon	<0.001	ppm (w/w)				
Nuarimol	<0.001	ppm (w/w)				
o,p-DDD	<0.001	ppm (w/w)				
o,p-DDT	<0.001	ppm (w/w)				
o,p-DDE	<0.001	ppm (w/w)				
Octhilinone	<0.001	ppm (w/w)				
Oxadiazon	<0.001	ppm (w/w)				
Oxyclordane	<0.001	ppm (w/w)				
Oxyfluorfen	<0.003	ppm (w/w)				
p,p-DDD	<0.001	ppm (w/w)				
p,p-DDE	<0.001	ppm (w/w)				
p,p-DDT	<0.001	ppm (w/w)				
Paraoxon	<0.002	ppm (w/w)				
Parathion	<0.002	ppm (w/w)				
Parathion-methyl	<0.003	ppm (w/w)				
Pebulate	<0.001	ppm (w/w)				
Penconazole	<0.002	ppm (w/w)				
Pendimethalin	<0.002	ppm (w/w)				

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COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 40 of 96	

**TO:**

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 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

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**Analytical Results**


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<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Pentachloroanilin	<0.003	ppm (w/w)				
Pentachlorobenzene	<0.001	ppm (w/w)				
Permethrin I	<0.001	ppm (w/w)				
Permethrin II	<0.001	ppm (w/w)				
Phenthoate	<0.001	ppm (w/w)				
Phenylphenol-o	<0.001	ppm (w/w)				
Phorate	<0.002	ppm (w/w)				
Phorate-sulfone	<0.001	ppm (w/w)				
Phosalone	<0.002	ppm (w/w)				
Phosphamidon	<0.002	ppm (w/w)				
Piperonyl Butoxide (PBO)	<0.001	ppm (w/w)				
Pirimicarb	<0.001	ppm (w/w)				
Pirimiphos-ethyl	<0.003	ppm (w/w)				
Pirimiphos-methyl	<0.001	ppm (w/w)				
Prochloraz	<0.001	ppm (w/w)				
Procymidone	<0.001	ppm (w/w)				
Profenofos	<0.003	ppm (w/w)				
Profluralin	<0.002	ppm (w/w)				
Prometon	<0.002	ppm (w/w)				
Prometryne	<0.001	ppm (w/w)				
Pronamide	<0.002	ppm (w/w)				
Propachlor	<0.001	ppm (w/w)				
Propamocarb	<0.001	ppm (w/w)				
Propanil	<0.003	ppm (w/w)				
Propargite	<0.001	ppm (w/w)				
Propazine	<0.001	ppm (w/w)				
Propetamphos	<0.001	ppm (w/w)				
Propham	<0.001	ppm (w/w)				
Propiconazole I + II	<0.001	ppm (w/w)				
Prothiofos	<0.001	ppm (w/w)				

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<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 41 of 96</b>	

**TO:**

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 Assay Technician  
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 1388 Waller Avenue  
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<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Pyracarbolid	<0.001	ppm (w/w)				
Pyrazophos	<0.002	ppm (w/w)				
Pyrethrin I	<0.002	ppm (w/w)				
Pyridaben	<0.001	ppm (w/w)				
Quinalphos	<0.001	ppm (w/w)				
Quinomethionate	<0.001	ppm (w/w)				
Quintozene-pentachloronitrobenzene	<0.002	ppm (w/w)				
Secbumeton	<0.002	ppm (w/w)				
Simazine	<0.001	ppm (w/w)				
Simetryn	<0.001	ppm (w/w)				
Sulfallate	<0.001	ppm (w/w)				
Sulfotep	<0.001	ppm (w/w)				
Sulprophos	<0.002	ppm (w/w)				
Tebuconazole	<0.001	ppm (w/w)				
Tecnazene	<0.003	ppm (w/w)				
Terbacil	<0.001	ppm (w/w)				
Terbufos	<0.001	ppm (w/w)				
Terbumeton	<0.001	ppm (w/w)				
Terbutylazine	<0.003	ppm (w/w)				
Terbutryne	<0.001	ppm (w/w)				
Tetrachlorvinphos	<0.002	ppm (w/w)				
Tetradifon	<0.001	ppm (w/w)				
Tetramethrin I	<0.001	ppm (w/w)				
Tetramethrin II	<0.001	ppm (w/w)				
Tetrasul	<0.001	ppm (w/w)				
Thiobencarb	<0.001	ppm (w/w)				
Tolclofos Methyl	<0.001	ppm (w/w)				
Tralomethrin	<0.001	ppm (w/w)				
Triadimefon	<0.001	ppm (w/w)				
Triallate	<0.001	ppm (w/w)				

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COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 42 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
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 1388 Waller Avenue  
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Received From:	Winnipeg, MB
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P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Triazophos	<0.002	ppm (w/w)			
Tribufos	<0.001	ppm (w/w)			
Trifloxystrobin	<0.001	ppm (w/w)			
Triflumizole	<0.002	ppm (w/w)			
Trifluralin	<0.002	ppm (w/w)			
Vernolate	<0.001	ppm (w/w)			
Vinclozolin	<0.002	ppm (w/w)			
3-OH-carbofuran	<0.001	ppm (w/w)			
Abamectin	<0.005	ppm (w/w)			
Acephate	<0.002	ppm (w/w)			
Acetamipred	<0.002	ppm (w/w)			
Acetochlor	<0.001	ppm (w/w)			
Aclonifen	<0.005	ppm (w/w)			
Aldicarb	<0.002	ppm (w/w)			
Aldicarb sulfone	<0.002	ppm (w/w)			
Aldicarb sulfoxide	<0.002	ppm (w/w)			
Anilofos	<0.001	ppm (w/w)			
Azaconazole	<0.001	ppm (w/w)			
Bendiocarb	<0.001	ppm (w/w)			
Benoxacor	<0.001	ppm (w/w)			
Bensulide	<0.002	ppm (w/w)			
Bitertanol	<0.001	ppm (w/w)			
Bromuconazole	<0.001	ppm (w/w)			
Butafenacil	<0.001	ppm (w/w)			
Butocarboxim sulfoxide	<0.001	ppm (w/w)			
Cadusafos	<0.001	ppm (w/w)			
Carbaryl	<0.002	ppm (w/w)			
Carbofuran	<0.001	ppm (w/w)			
Carbosulfan	<0.005	ppm (w/w)			
Carfentrazone-ethyl	<0.001	ppm (w/w)			

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**Silliker JR Laboratories, ULC**

 106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 43 of 96	

**TO:**

 Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

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**Analytical Results**


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<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Chlorantriliprole	<0.001	ppm (w/w)				
Chlorbromuron	<0.003	ppm (w/w)				
Chlorimuron ethyl	<0.001	ppm (w/w)				
Chloroxuron	<0.001	ppm (w/w)				
Chlorthiamid	<0.002	ppm (w/w)				
Chlortoluron	<0.001	ppm (w/w)				
Clodinafop-propargyl	<0.001	ppm (w/w)				
Cloquintocet-methyl	<0.001	ppm (w/w)				
Clothianidin	<0.001	ppm (w/w)				
Cyanofenphos	<0.001	ppm (w/w)				
Cyazofamid	<0.001	ppm (w/w)				
Cycloxydim	<0.001	ppm (w/w)				
Cycluron	<0.001	ppm (w/w)				
Cyromazine	<0.001	ppm (w/w)				
Demeton-s-methyl-sulfone	<0.001	ppm (w/w)				
Demeton-s-methyl-sulfoxide	<0.001	ppm (w/w)				
Desmedipham	<0.001	ppm (w/w)				
Dialofos	<0.001	ppm (w/w)				
Dichlofulanid	<0.002	ppm (w/w)				
Diclocymet	<0.001	ppm (w/w)				
Dicrotophos	<0.002	ppm (w/w)				
Diethofencarb	<0.001	ppm (w/w)				
Difenoconazole	<0.001	ppm (w/w)				
Dimethametryn	<0.001	ppm (w/w)				
Dimethomorph	<0.001	ppm (w/w)				
Dimethoate	<0.002	ppm (w/w)				
Dimetilan	<0.001	ppm (w/w)				
Dimoxystrobin	<0.001	ppm (w/w)				
Diniconazole	<0.001	ppm (w/w)				
Dioxacarb	<0.002	ppm (w/w)				

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
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**TO:**

 Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

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**Analytical Results**


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<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Dipropetryn	<0.001	ppm (w/w)			
Diuron	<0.001	ppm (w/w)			
Dodemorph	<0.001	ppm (w/w)			
Emamectin	<0.001	ppm (w/w)			
Epoxyconazole	<0.001	ppm (w/w)			
Ethiofencarb	<0.001	ppm (w/w)			
Ethiofencarb sulfone	<0.001	ppm (w/w)			
Ethiofencarb sulfoxide	<0.001	ppm (w/w)			
Ethiprole	<0.001	ppm (w/w)			
Ethirimol	<0.001	ppm (w/w)			
Ethoprop	<0.001	ppm (w/w)			
Etofenprox	<0.001	ppm (w/w)			
Etoxazole	<0.001	ppm (w/w)			
Fenamidone	<0.001	ppm (w/w)			
Fenazaquin	<0.001	ppm (w/w)			
Fenhexamid	<0.001	ppm (w/w)			
Fenoxanil	<0.001	ppm (w/w)			
Fenpropidine	<0.001	ppm (w/w)			
Fenpyroximate	<0.001	ppm (w/w)			
Fentrazamide	<0.001	ppm (w/w)			
Fluazifop-butyl	<0.001	ppm (w/w)			
Flubendiamide	<0.001	ppm (w/w)			
Flucarbazone-sodium	<0.001	ppm (w/w)			
Fluoxastrobin	<0.001	ppm (w/w)			
Flutolanil	<0.001	ppm (w/w)			
Flutriafol	<0.001	ppm (w/w)			
Forchlorfenuron	<0.001	ppm (w/w)			
Fosthiazate	<0.001	ppm (w/w)			
Fuberidazole	<0.001	ppm (w/w)			
Furathiocarb	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 45 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Griseofulvin	<0.001	ppm (w/w)			
Haloxyfop	<0.001	ppm (w/w)			
Imazamethabenz-methyl	<0.001	ppm (w/w)			
Imidacloprid	<0.001	ppm (w/w)			
Indoxacarb	<0.002	ppm (w/w)			
Ipconazole	<0.001	ppm (w/w)			
Iprovalicarb	<0.001	ppm (w/w)			
Isocarbamide	<0.001	ppm (w/w)			
Isoprocarb	<0.001	ppm (w/w)			
Isoxadifen-ethyl	<0.001	ppm (w/w)			
Isoxathion	<0.001	ppm (w/w)			
Linuron	<0.003	ppm (w/w)			
Mandipropamid	<0.001	ppm (w/w)			
Mepanipyrim	<0.001	ppm (w/w)			
Mephosfolan	<0.001	ppm (w/w)			
Methabenzthiazuron	<0.001	ppm (w/w)			
Methiocarb	<0.002	ppm (w/w)			
Methiocarb sulfone	<0.001	ppm (w/w)			
Methiocarb sulfoxide	<0.002	ppm (w/w)			
Methomyl	<0.001	ppm (w/w)			
Methoxyfenozide	<0.001	ppm (w/w)			
Methyl trithion	<0.002	ppm (w/w)			
Metobromuron	<0.002	ppm (w/w)			
Metolcarb	<0.001	ppm (w/w)			
Metosulam	<0.001	ppm (w/w)			
Metoxuron	<0.001	ppm (w/w)			
Mexacarbate	<0.002	ppm (w/w)			
Monocrotophos	<0.002	ppm (w/w)			
Napropamide	<0.001	ppm (w/w)			
Naptalam	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 46 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Neburon	<0.001	ppm (w/w)			
Nitralin	<0.002	ppm (w/w)			
Ofurace	<0.001	ppm (w/w)			
Omethoate	<0.002	ppm (w/w)			
Oxadixyl	<0.001	ppm (w/w)			
Oxamyl	<0.002	ppm (w/w)			
Oxamyl-oxime	<0.001	ppm (w/w)			
Oxycarboxin	<0.002	ppm (w/w)			
Oxydemeton-me	<0.001	ppm (w/w)			
Paclobutrazol	<0.001	ppm (w/w)			
Pencycuron	<0.001	ppm (w/w)			
Penoxsulam	<0.002	ppm (w/w)			
Phosmet	<0.002	ppm (w/w)			
Picolinafen	<0.001	ppm (w/w)			
Picoxystrobin	<0.001	ppm (w/w)			
Piperophos	<0.001	ppm (w/w)			
Pretilachlor	<0.001	ppm (w/w)			
Primisulfuron-methyl	<0.001	ppm (w/w)			
Prodiamine	<0.001	ppm (w/w)			
Promecarb	<0.002	ppm (w/w)			
Propoxur	<0.002	ppm (w/w)			
Pymetrozine	<0.001	ppm (w/w)			
Pyraclostrobin	<0.001	ppm (w/w)			
Pyraflufen-ethyl	<0.001	ppm (w/w)			
Pyridalyl	<0.001	ppm (w/w)			
Pyridaphenthion	<0.001	ppm (w/w)			
Pyridate	<0.001	ppm (w/w)			
Pyrifenox	<0.001	ppm (w/w)			
Pyrimethanil	<0.001	ppm (w/w)			
Pyriproxyfen	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 47 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Pyroquilon	<0.001	ppm (w/w)			
Pyroxsulam	<0.001	ppm (w/w)			
Quinoxifen	<0.001	ppm (w/w)			
Quizalofop	<0.001	ppm (w/w)			
Quizalofop-ethyl	<0.001	ppm (w/w)			
Schradan	<0.001	ppm (w/w)			
Simeconazole	<0.0002	ppm (w/w)			
Spinosyn a	<0.001	ppm (w/w)			
Spinosyn d	<0.001	ppm (w/w)			
Spirodiclofen	<0.001	ppm (w/w)			
Spiromesifen	<0.001	ppm (w/w)			
Spirotetramat	<0.001	ppm (w/w)			
Spiroxamine	<0.001	ppm (w/w)			
Sulfentrazone	<0.001	ppm (w/w)			
TCMTB	<0.006	ppm (w/w)			
Tebufenozide	<0.001	ppm (w/w)			
Tebufenpyrad	<0.001	ppm (w/w)			
Tebupirimfos	<0.001	ppm (w/w)			
Tepraloxym	<0.001	ppm (w/w)			
Tetraconazole	<0.001	ppm (w/w)			
Thiabendazole	<0.002	ppm (w/w)			
Thiacloprid	<0.001	ppm (w/w)			
Thiamethoxam	<0.001	ppm (w/w)			
Thiazopyr	<0.001	ppm (w/w)			
Thiodicarb	<0.002	ppm (w/w)			
Thiofanox	<0.001	ppm (w/w)			
Thiofanox sulfone	<0.001	ppm (w/w)			
Thiofanox sulfoxide	<0.001	ppm (w/w)			
Thiophanate methyl	<0.005	ppm (w/w)			
Tolfenpyrad	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 48 of 96	

**TO:**

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 Assay Technician  
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Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147760
<b>Desc. 2:</b>	YP36	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	B01-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810PA		
<b>Desc. 5:</b>	106170		
<b>Desc. 6:</b>	253g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Tolyfluanid	<0.002	ppm (w/w)				
Tralkoxydim	<0.001	ppm (w/w)				
Triadimenol	<0.001	ppm (w/w)				
Trichlorfon	<0.001	ppm (w/w)				
Tricyclazole	<0.003	ppm (w/w)				
Trietazine	<0.001	ppm (w/w)				
Trifloxysulfuron	<0.001	ppm (w/w)				
Triforine	<0.001	ppm (w/w)				
Trimethacarb	<0.001	ppm (w/w)				
Zinophos (thionazin)	<0.001	ppm (w/w)				
Zoxamide	<0.005	ppm (w/w)				
Carbendazim	<0.002	ppm (w/w)				

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COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 49 of 96	

**TO:**

 Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

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**Analytical Results**


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<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147810
<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Glyphosate / AMPA			EU Ref Lab for SRM	M-H580	5/16/18	
AMPA	<0.01	ppm (w/w)				
Glyphosate	<0.005	ppm (w/w)				
Multi-residue Pesticides			CFIA PMR-006-v1.0	M-H553	5/16/18	
<u>Compounds Detected</u>						
(none detected)						
<u>Compounds Not Detected</u>						
Acibenzolar-s-methyl	<0.002	ppm (w/w)				
Alachlor	<0.001	ppm (w/w)				
Aldrin	<0.001	ppm (w/w)				
Allidochlor	<0.001	ppm (w/w)				
Ametryn	<0.001	ppm (w/w)				
Aminocarb	<0.001	ppm (w/w)				
Aramite I	<0.002	ppm (w/w)				
Aramite II	<0.003	ppm (w/w)				
Aspon	<0.001	ppm (w/w)				
Atrazine	<0.002	ppm (w/w)				
Atrazine-desethyl	<0.002	ppm (w/w)				
Azinphos-ethyl	<0.002	ppm (w/w)				
Azinphos-methyl	<0.006	ppm (w/w)				
Azoxystrobin	<0.003	ppm (w/w)				
Benalaxyl	<0.001	ppm (w/w)				
Benfluralin	<0.001	ppm (w/w)				
Benodanil	<0.001	ppm (w/w)				
Benzoylprop ethyl	<0.002	ppm (w/w)				
BHC alpha isomer	<0.001	ppm (w/w)				
BHC beta isomer	<0.001	ppm (w/w)				
BHC delta isomer	<0.001	ppm (w/w)				
Bifenox	<0.002	ppm (w/w)				
Biphenyl	<0.001	ppm (w/w)				

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**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 50 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147810
<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Bifenthrin	<0.001	ppm (w/w)			
Boscalide	<0.001	ppm (w/w)			
Bromacil	<0.001	ppm (w/w)			
Bromophos-ethyl	<0.001	ppm (w/w)			
Bromophos-methyl	<0.001	ppm (w/w)			
Bromopropylate	<0.002	ppm (w/w)			
Bupirimate	<0.001	ppm (w/w)			
Buprofezin	<0.001	ppm (w/w)			
Butachlor	<0.001	ppm (w/w)			
Butralin	<0.003	ppm (w/w)			
Butylate	<0.002	ppm (w/w)			
Captafol (as Tetrahydroptalimid)	<0.008	ppm (w/w)			
Carbetamide	<0.001	ppm (w/w)			
Captan	<0.004	ppm (w/w)			
Carbofenthion	<0.001	ppm (w/w)			
Carboxin	<0.001	ppm (w/w)			
Chlorbenside	<0.001	ppm (w/w)			
Chlorbufam	<0.003	ppm (w/w)			
Chlordane-cis	<0.001	ppm (w/w)			
Chlordane-trans	<0.002	ppm (w/w)			
Chlordemeform	<0.001	ppm (w/w)			
Chlorfenapyr	<0.001	ppm (w/w)			
Chlorfenson	<0.001	ppm (w/w)			
Chlorfenvinphos-cis	<0.002	ppm (w/w)			
Chlorfenvinphos-trans	<0.001	ppm (w/w)			
Chlorflurenol-methyl	<0.001	ppm (w/w)			
Chloridazon	<0.002	ppm (w/w)			
Chlormephos	<0.002	ppm (w/w)			
Chlorobenzilate	<0.001	ppm (w/w)			
Chloroneb	<0.001	ppm (w/w)			

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COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 51 of 96</b>	

**TO:**

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 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147810
<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Chloropropilate	<0.001	ppm (w/w)			
Chlorothalonil	<0.001	ppm (w/w)			
Chlorpropham	<0.003	ppm (w/w)			
Chlorpyrifos	<0.001	ppm (w/w)			
Chlorpyrifos-methyl	<0.001	ppm (w/w)			
Chlorthion	<0.002	ppm (w/w)			
Chlorthiophos	<0.002	ppm (w/w)			
Chlozolate	<0.001	ppm (w/w)			
Clomazone	<0.001	ppm (w/w)			
Coumaphos	<0.002	ppm (w/w)			
Crotoxyphos	<0.003	ppm (w/w)			
Cruformate	<0.001	ppm (w/w)			
Cyanazine	<0.002	ppm (w/w)			
Cyanophos	<0.001	ppm (w/w)			
Cycloate	<0.005	ppm (w/w)			
Cyfluthrin	<0.001	ppm (w/w)			
Cyhalothrin lambda	<0.002	ppm (w/w)			
Cypermethrin	<0.001	ppm (w/w)			
Cyprazine	<0.001	ppm (w/w)			
Cyproconazole	<0.001	ppm (w/w)			
Cyprodinil	<0.001	ppm (w/w)			
Dacthal (Chlorthal-dimethyl)	<0.001	ppm (w/w)			
Deltamethrin	<0.002	ppm (w/w)			
delta-trans-Allethrin	<0.001	ppm (w/w)			
Demeton-o	<0.001	ppm (w/w)			
Demeton-s	<0.001	ppm (w/w)			
Demeton-s-methyl	<0.001	ppm (w/w)			
Desmetryn	<0.001	ppm (w/w)			
Diallate	<0.002	ppm (w/w)			
Diazinon	<0.002	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 52 of 96</b>	

**TO:**

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 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147810
<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Diazinon-o-analog	<0.001	ppm (w/w)			
Dichlobenil	<0.001	ppm (w/w)			
Dichloran	<0.001	ppm (w/w)			
Dichlormid	<0.002	ppm (w/w)			
Dichlorvos	<0.001	ppm (w/w)			
Diclobutrazole	<0.001	ppm (w/w)			
Diclofenthion	<0.001	ppm (w/w)			
Diclofop-methyl	<0.001	ppm (w/w)			
Dicofol	<0.001	ppm (w/w)			
Dieldrin	<0.002	ppm (w/w)			
Diethyl-ethyl	<0.001	ppm (w/w)			
Dimethachlor	<0.001	ppm (w/w)			
Dinitramine	<0.001	ppm (w/w)			
Dioxathion	<0.002	ppm (w/w)			
Diphenamid	<0.001	ppm (w/w)			
Diphenylamine	<0.001	ppm (w/w)			
Disulfoton	<0.002	ppm (w/w)			
Disulfoton sulfone	<0.001	ppm (w/w)			
Edifenphos	<0.001	ppm (w/w)			
Endosulfan alpha	<0.002	ppm (w/w)			
Endosulfan beta	<0.003	ppm (w/w)			
Endosulfan sulfate	<0.001	ppm (w/w)			
Endrin	<0.002	ppm (w/w)			
EPN	<0.001	ppm (w/w)			
EPTC	<0.003	ppm (w/w)			
Erbon	<0.003	ppm (w/w)			
Esfenvalerate	<0.001	ppm (w/w)			
Etaconazole	<0.002	ppm (w/w)			
Ethalfuralin	<0.002	ppm (w/w)			
Ethion	<0.001	ppm (w/w)			

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<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 53 of 96</b>	

**TO:**

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 Assay Technician  
 Burcon NutraScience (MB) Corp.  
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 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147810
<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Ethofumasate	<0.001	ppm (w/w)			
Ethoprophos	<0.001	ppm (w/w)			
Ethylan	<0.001	ppm (w/w)			
Etridiazole	<0.001	ppm (w/w)			
Etrimfos	<0.002	ppm (w/w)			
Fenamiphos	<0.001	ppm (w/w)			
Fenamiphos-sulfone	<0.006	ppm (w/w)			
Fenamiphos-sulfoxide	<0.006	ppm (w/w)			
Fenarimol	<0.001	ppm (w/w)			
Fenbuconazole	<0.001	ppm (w/w)			
Fenclorphos	<0.001	ppm (w/w)			
Fenfuram	<0.001	ppm (w/w)			
Fenitrothion	<0.003	ppm (w/w)			
Fenpropathrin	<0.001	ppm (w/w)			
Fenpropimorph	<0.001	ppm (w/w)			
Fenson	<0.001	ppm (w/w)			
Fensulfothion	<0.002	ppm (w/w)			
Fenthion	<0.001	ppm (w/w)			
Fenvalerate I	<0.001	ppm (w/w)			
Fenvalerate II	<0.001	ppm (w/w)			
Fipronil	<0.001	ppm (w/w)			
Flamprop-isopropyl	<0.001	ppm (w/w)			
Flamprop-methyl	<0.001	ppm (w/w)			
Fluchloralin	<0.003	ppm (w/w)			
Flucythrinate	<0.003	ppm (w/w)			
Fludioxonil	<0.001	ppm (w/w)			
Flumetralin	<0.001	ppm (w/w)			
Flurochloridone	<0.002	ppm (w/w)			
Flurodifen	<0.004	ppm (w/w)			
Flusilazole	<0.002	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 54 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
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P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147810
<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Fluvalinate I+II	<0.002	ppm (w/w)			
Folpet	<0.012	ppm (w/w)			
Fonofos	<0.001	ppm (w/w)			
Heptachlor	<0.002	ppm (w/w)			
Heptachlor epoxide endo	<0.002	ppm (w/w)			
Heptenophos	<0.001	ppm (w/w)			
Hexachlorobenzene	<0.001	ppm (w/w)			
Hexaconazole	<0.001	ppm (w/w)			
Hexazinone	<0.001	ppm (w/w)			
Imazalil	<0.002	ppm (w/w)			
Iodfenphos	<0.001	ppm (w/w)			
Iprobenfos	<0.001	ppm (w/w)			
Iprodione	<0.002	ppm (w/w)			
Isazophos	<0.001	ppm (w/w)			
Isofenphos	<0.001	ppm (w/w)			
Isopropalin	<0.002	ppm (w/w)			
Isoprothiolane	<0.002	ppm (w/w)			
Kresoxin-me	<0.001	ppm (w/w)			
Leptophos	<0.001	ppm (w/w)			
Lindane (gamma-BHC)	<0.001	ppm (w/w)			
Malaoxon	<0.002	ppm (w/w)			
Malathion	<0.001	ppm (w/w)			
Mecarbam	<0.002	ppm (w/w)			
Metalaxyl	<0.001	ppm (w/w)			
Metazachlor	<0.001	ppm (w/w)			
Methamidophos	<0.001	ppm (w/w)			
Methidathion	<0.002	ppm (w/w)			
Methoprotryne	<0.002	ppm (w/w)			
Methoxychlor	<0.001	ppm (w/w)			
Methyl-pentachlorophenyl-sulphide	<0.001	ppm (w/w)			

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<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 55 of 96</b>	

**TO:**

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<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

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<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Metolachlor	<0.001	ppm (w/w)			
Metribuzin	<0.001	ppm (w/w)			
Mevinphos-cis	<0.001	ppm (w/w)			
Mevinphos-trans	<0.001	ppm (w/w)			
Mirex	<0.001	ppm (w/w)			
Molinate	<0.001	ppm (w/w)			
Monolinuron	<0.001	ppm (w/w)			
Myclobutanil	<0.001	ppm (w/w)			
Naled	<0.001	ppm (w/w)			
Nitrapyrin	<0.002	ppm (w/w)			
Nitrofen	<0.003	ppm (w/w)			
Nitrothal-isopropyl	<0.001	ppm (w/w)			
Norflurazon	<0.001	ppm (w/w)			
Nuarimol	<0.001	ppm (w/w)			
o,p-DDD	<0.001	ppm (w/w)			
o,p-DDT	<0.001	ppm (w/w)			
o,p-DDE	<0.001	ppm (w/w)			
Octhilinone	<0.001	ppm (w/w)			
Oxadiazon	<0.001	ppm (w/w)			
Oxyclordane	<0.001	ppm (w/w)			
Oxyfluorfen	<0.003	ppm (w/w)			
p,p-DDD	<0.001	ppm (w/w)			
p,p-DDE	<0.001	ppm (w/w)			
p,p-DDT	<0.001	ppm (w/w)			
Paraoxon	<0.002	ppm (w/w)			
Parathion	<0.002	ppm (w/w)			
Parathion-methyl	<0.003	ppm (w/w)			
Pebulate	<0.001	ppm (w/w)			
Penconazole	<0.002	ppm (w/w)			
Pendimethalin	<0.002	ppm (w/w)			

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COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 56 of 96	

**TO:**

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Received From:	Winnipeg, MB
Received Date:	5/8/18
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Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147810
<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Pentachloroanilin	<0.003	ppm (w/w)			
Pentachlorobenzene	<0.001	ppm (w/w)			
Permethrin I	<0.001	ppm (w/w)			
Permethrin II	<0.001	ppm (w/w)			
Phenthoate	<0.001	ppm (w/w)			
Phenylphenol-o	<0.001	ppm (w/w)			
Phorate	<0.002	ppm (w/w)			
Phorate-sulfone	<0.001	ppm (w/w)			
Phosalone	<0.002	ppm (w/w)			
Phosphamidon	<0.002	ppm (w/w)			
Piperonyl Butoxide (PBO)	<0.001	ppm (w/w)			
Pirimicarb	<0.001	ppm (w/w)			
Pirimiphos-ethyl	<0.003	ppm (w/w)			
Pirimiphos-methyl	<0.001	ppm (w/w)			
Prochloraz	<0.001	ppm (w/w)			
Procymidone	<0.001	ppm (w/w)			
Profenofos	<0.003	ppm (w/w)			
Profluralin	<0.002	ppm (w/w)			
Prometon	<0.002	ppm (w/w)			
Prometryne	<0.001	ppm (w/w)			
Pronamide	<0.002	ppm (w/w)			
Propachlor	<0.001	ppm (w/w)			
Propamocarb	<0.001	ppm (w/w)			
Propanil	<0.003	ppm (w/w)			
Propargite	<0.001	ppm (w/w)			
Propazine	<0.001	ppm (w/w)			
Propetamphos	<0.001	ppm (w/w)			
Propham	<0.001	ppm (w/w)			
Propiconazole I + II	<0.001	ppm (w/w)			
Prothiofos	<0.001	ppm (w/w)			

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<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 57 of 96</b>	

**TO:**

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 Assay Technician  
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 1388 Waller Avenue  
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<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

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<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Pyracarbolid	<0.001	ppm (w/w)			
Pyrazophos	<0.002	ppm (w/w)			
Pyrethrin I	<0.002	ppm (w/w)			
Pyridaben	<0.001	ppm (w/w)			
Quinalphos	<0.001	ppm (w/w)			
Quinomethionate	<0.001	ppm (w/w)			
Quintozene-pentachloronitrobenzene	<0.002	ppm (w/w)			
Secbumeton	<0.002	ppm (w/w)			
Simazine	<0.001	ppm (w/w)			
Simetryn	<0.001	ppm (w/w)			
Sulfallate	<0.001	ppm (w/w)			
Sulfotep	<0.001	ppm (w/w)			
Sulprophos	<0.002	ppm (w/w)			
Tebuconazole	<0.001	ppm (w/w)			
Tecnazene	<0.003	ppm (w/w)			
Terbacil	<0.001	ppm (w/w)			
Terbufos	<0.001	ppm (w/w)			
Terbumeton	<0.001	ppm (w/w)			
Terbutylazine	<0.003	ppm (w/w)			
Terbutryne	<0.001	ppm (w/w)			
Tetrachlorvinphos	<0.002	ppm (w/w)			
Tetradifon	<0.001	ppm (w/w)			
Tetramethrin I	<0.001	ppm (w/w)			
Tetramethrin II	<0.001	ppm (w/w)			
Tetrasul	<0.001	ppm (w/w)			
Thiobencarb	<0.001	ppm (w/w)			
Tolclofos Methyl	<0.001	ppm (w/w)			
Tralomethrin	<0.001	ppm (w/w)			
Triadimefon	<0.001	ppm (w/w)			
Triallate	<0.001	ppm (w/w)			

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**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 58 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147810
<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Triazophos	<0.002	ppm (w/w)			
Tribufos	<0.001	ppm (w/w)			
Trifloxystrobin	<0.001	ppm (w/w)			
Triflumizole	<0.002	ppm (w/w)			
Trifluralin	<0.002	ppm (w/w)			
Vernolate	<0.001	ppm (w/w)			
Vinclozolin	<0.002	ppm (w/w)			
3-OH-carbofuran	<0.001	ppm (w/w)			
Abamectin	<0.005	ppm (w/w)			
Acephate	<0.002	ppm (w/w)			
Acetamipred	<0.002	ppm (w/w)			
Acetochlor	<0.001	ppm (w/w)			
Aclonifen	<0.005	ppm (w/w)			
Aldicarb	<0.002	ppm (w/w)			
Aldicarb sulfone	<0.002	ppm (w/w)			
Aldicarb sulfoxide	<0.002	ppm (w/w)			
Anilofos	<0.001	ppm (w/w)			
Azaconazole	<0.001	ppm (w/w)			
Bendiocarb	<0.001	ppm (w/w)			
Benoxacor	<0.001	ppm (w/w)			
Bensulide	<0.002	ppm (w/w)			
Bitertanol	<0.001	ppm (w/w)			
Bromuconazole	<0.001	ppm (w/w)			
Butafenacil	<0.001	ppm (w/w)			
Butocarboxim sulfoxide	<0.001	ppm (w/w)			
Cadusafos	<0.001	ppm (w/w)			
Carbaryl	<0.002	ppm (w/w)			
Carbofuran	<0.001	ppm (w/w)			
Carbosulfan	<0.005	ppm (w/w)			
Carfentrazone-ethyl	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 59 of 96	

**TO:**

 Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

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**Analytical Results**


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<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147810
<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Chlorantriliprole	<0.001	ppm (w/w)				
Chlorbromuron	<0.003	ppm (w/w)				
Chlorimuron ethyl	<0.001	ppm (w/w)				
Chloroxuron	<0.001	ppm (w/w)				
Chlorthiamid	<0.002	ppm (w/w)				
Chlortoluron	<0.001	ppm (w/w)				
Clodinafop-propargyl	<0.001	ppm (w/w)				
Cloquintocet-methyl	<0.001	ppm (w/w)				
Clothianidin	<0.001	ppm (w/w)				
Cyanofenphos	<0.001	ppm (w/w)				
Cyazofamid	<0.001	ppm (w/w)				
Cycloxydim	<0.001	ppm (w/w)				
Cycluron	<0.001	ppm (w/w)				
Cyromazine	<0.001	ppm (w/w)				
Demeton-s-methyl-sulfone	<0.001	ppm (w/w)				
Demeton-s-methyl-sulfoxide	<0.001	ppm (w/w)				
Desmedipham	<0.001	ppm (w/w)				
Dialofos	<0.001	ppm (w/w)				
Dichlofulanid	<0.002	ppm (w/w)				
Diclocymet	<0.001	ppm (w/w)				
Dicrotophos	<0.002	ppm (w/w)				
Diethofencarb	<0.001	ppm (w/w)				
Difenoconazole	<0.001	ppm (w/w)				
Dimethametryn	<0.001	ppm (w/w)				
Dimethomorph	<0.001	ppm (w/w)				
Dimethoate	<0.002	ppm (w/w)				
Dimetilan	<0.001	ppm (w/w)				
Dimoxystrobin	<0.001	ppm (w/w)				
Diniconazole	<0.001	ppm (w/w)				
Dioxacarb	<0.002	ppm (w/w)				

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 Tel. 604-432-9311 Fax. 604-432-7768

<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 60 of 96</b>	

**TO:**

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 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147810
<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Dipropetryn	<0.001	ppm (w/w)			
Diuron	<0.001	ppm (w/w)			
Dodemorph	<0.001	ppm (w/w)			
Emamectin	<0.001	ppm (w/w)			
Epoxyconazole	<0.001	ppm (w/w)			
Ethiofencarb	<0.001	ppm (w/w)			
Ethiofencarb sulfone	<0.001	ppm (w/w)			
Ethiofencarb sulfoxide	<0.001	ppm (w/w)			
Ethiprole	<0.001	ppm (w/w)			
Ethirimol	<0.001	ppm (w/w)			
Ethoprop	<0.001	ppm (w/w)			
Etofenprox	<0.001	ppm (w/w)			
Etoxazole	<0.001	ppm (w/w)			
Fenamidone	<0.001	ppm (w/w)			
Fenazaquin	<0.001	ppm (w/w)			
Fenhexamid	<0.001	ppm (w/w)			
Fenoxanil	<0.001	ppm (w/w)			
Fenpropidine	<0.001	ppm (w/w)			
Fenpyroximate	<0.001	ppm (w/w)			
Fentrazamide	<0.001	ppm (w/w)			
Fluazifop-butyl	<0.001	ppm (w/w)			
Flubendiamide	<0.001	ppm (w/w)			
Flucarbazone-sodium	<0.001	ppm (w/w)			
Fluoxastrobin	<0.001	ppm (w/w)			
Flutolanil	<0.001	ppm (w/w)			
Flutriafol	<0.001	ppm (w/w)			
Forchlorfenuron	<0.001	ppm (w/w)			
Fosthiazate	<0.001	ppm (w/w)			
Fuberidazole	<0.001	ppm (w/w)			
Furathiocarb	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 61 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147810
<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Griseofulvin	<0.001	ppm (w/w)			
Haloxyfop	<0.001	ppm (w/w)			
Imazamethabenz-methyl	<0.001	ppm (w/w)			
Imidacloprid	<0.001	ppm (w/w)			
Indoxacarb	<0.002	ppm (w/w)			
Ipconazole	<0.001	ppm (w/w)			
Iprovalicarb	<0.001	ppm (w/w)			
Isocarbamide	<0.001	ppm (w/w)			
Isoprocarb	<0.001	ppm (w/w)			
Isoxadifen-ethyl	<0.001	ppm (w/w)			
Isoxathion	<0.001	ppm (w/w)			
Linuron	<0.003	ppm (w/w)			
Mandipropamid	<0.001	ppm (w/w)			
Mepanipyrim	<0.001	ppm (w/w)			
Mephosfolan	<0.001	ppm (w/w)			
Methabenzthiazuron	<0.001	ppm (w/w)			
Methiocarb	<0.002	ppm (w/w)			
Methiocarb sulfone	<0.001	ppm (w/w)			
Methiocarb sulfoxide	<0.002	ppm (w/w)			
Methomyl	<0.001	ppm (w/w)			
Methoxyfenozide	<0.001	ppm (w/w)			
Methyl trithion	<0.002	ppm (w/w)			
Metobromuron	<0.002	ppm (w/w)			
Metolcarb	<0.001	ppm (w/w)			
Metosulam	<0.001	ppm (w/w)			
Metoxuron	<0.001	ppm (w/w)			
Mexacarbate	<0.002	ppm (w/w)			
Monocrotophos	<0.002	ppm (w/w)			
Napropamide	<0.001	ppm (w/w)			
Naptalam	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 62 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147810
<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Neburon	<0.001	ppm (w/w)			
Nitralin	<0.002	ppm (w/w)			
Ofurace	<0.001	ppm (w/w)			
Omethoate	<0.002	ppm (w/w)			
Oxadixyl	<0.001	ppm (w/w)			
Oxamyl	<0.002	ppm (w/w)			
Oxamyl-oxime	<0.001	ppm (w/w)			
Oxycarboxin	<0.002	ppm (w/w)			
Oxydemeton-me	<0.001	ppm (w/w)			
Paclobutrazol	<0.001	ppm (w/w)			
Pencycuron	<0.001	ppm (w/w)			
Penoxsulam	<0.002	ppm (w/w)			
Phosmet	<0.002	ppm (w/w)			
Picolinafen	<0.001	ppm (w/w)			
Picoxystrobin	<0.001	ppm (w/w)			
Piperophos	<0.001	ppm (w/w)			
Pretilachlor	<0.001	ppm (w/w)			
Primisulfuron-methyl	<0.001	ppm (w/w)			
Prodiamine	<0.001	ppm (w/w)			
Promecarb	<0.002	ppm (w/w)			
Propoxur	<0.002	ppm (w/w)			
Pymetrozine	<0.001	ppm (w/w)			
Pyraclostrobin	<0.001	ppm (w/w)			
Pyraflufen-ethyl	<0.001	ppm (w/w)			
Pyridalyl	<0.001	ppm (w/w)			
Pyridaphenthion	<0.001	ppm (w/w)			
Pyridate	<0.001	ppm (w/w)			
Pyrifenox	<0.001	ppm (w/w)			
Pyrimethanil	<0.001	ppm (w/w)			
Pyriproxyfen	<0.001	ppm (w/w)			

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<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 63 of 96</b>	

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<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147810
<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Pyroquilon	<0.001	ppm (w/w)			
Pyroxsulam	<0.001	ppm (w/w)			
Quinoxifen	<0.001	ppm (w/w)			
Quizalofop	<0.001	ppm (w/w)			
Quizalofop-ethyl	<0.001	ppm (w/w)			
Schradan	<0.001	ppm (w/w)			
Simeconazole	<0.0002	ppm (w/w)			
Spinosyn a	<0.001	ppm (w/w)			
Spinosyn d	<0.001	ppm (w/w)			
Spirodiclofen	<0.001	ppm (w/w)			
Spiromesifen	<0.001	ppm (w/w)			
Spirotetramat	<0.001	ppm (w/w)			
Spiroxamine	<0.001	ppm (w/w)			
Sulfentrazone	<0.001	ppm (w/w)			
TCMTB	<0.006	ppm (w/w)			
Tebufenozide	<0.001	ppm (w/w)			
Tebufenpyrad	<0.001	ppm (w/w)			
Tebupirimfos	<0.001	ppm (w/w)			
Tepraloxdim	<0.001	ppm (w/w)			
Tetraconazole	<0.001	ppm (w/w)			
Thiabendazole	<0.002	ppm (w/w)			
Thiacloprid	<0.001	ppm (w/w)			
Thiamethoxam	<0.001	ppm (w/w)			
Thiazopyr	<0.001	ppm (w/w)			
Thiodicarb	<0.002	ppm (w/w)			
Thiofanox	<0.001	ppm (w/w)			
Thiofanox sulfone	<0.001	ppm (w/w)			
Thiofanox sulfoxide	<0.001	ppm (w/w)			
Thiophanate methyl	<0.005	ppm (w/w)			
Tolfenpyrad	<0.001	ppm (w/w)			

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COA No:	BRN-41211837-0
Supersedes:	None
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<b>Page 64 of 96</b>	

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Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147810
<b>Desc. 2:</b>	YP38	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	L11-17A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	111192		
<b>Desc. 6:</b>	400g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Tolyfluamid	<0.002	ppm (w/w)				
Tralkoxydim	<0.001	ppm (w/w)				
Triadimenol	<0.001	ppm (w/w)				
Trichlorfon	<0.001	ppm (w/w)				
Tricyclazole	<0.003	ppm (w/w)				
Trietazine	<0.001	ppm (w/w)				
Trifloxysulfuron	<0.001	ppm (w/w)				
Triforine	<0.001	ppm (w/w)				
Trimethacarb	<0.001	ppm (w/w)				
Zinophos (thionazin)	<0.001	ppm (w/w)				
Zoxamide	<0.005	ppm (w/w)				
Carbendazim	<0.002	ppm (w/w)				
Mycotoxin Screen			WGFLM v2	BFCL050	5/18/18	
Aflatoxin B1	<0.5	ppb (w/w)				
Aflatoxin B2	<0.3	ppb (w/w)				
Aflatoxin G1	<0.7	ppb (w/w)				
Aflatoxin G2	<0.9	ppb (w/w)				
Deoxynivalenol	<10	ppb (w/w)				
Fumonisin B1	<4	ppb (w/w)				
Fumonisin B2	<10	ppb (w/w)				
Fumonisin B3	<8	ppb (w/w)				
Ochratoxin	4.8	ppb (w/w)				
T-2 Toxin	<9	ppb (w/w)				
Zearalenone	<7	ppb (w/w)				

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**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 65 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Glyphosate / AMPA			EU Ref Lab for SRM	M-H580	5/16/18	
AMPA	<0.01	ppm (w/w)				
Glyphosate	<0.005	ppm (w/w)				
Multi-residue Pesticides			CFIA PMR-006-v1.0	M-H553	5/16/18	
<u>Compounds Detected</u>						
(none detected)						
<u>Compounds Not Detected</u>						
Acibenzolar-s-methyl	<0.002	ppm (w/w)				
Alachlor	<0.001	ppm (w/w)				
Aldrin	<0.001	ppm (w/w)				
Allidochlor	<0.001	ppm (w/w)				
Ametryn	<0.001	ppm (w/w)				
Aminocarb	<0.001	ppm (w/w)				
Aramite I	<0.002	ppm (w/w)				
Aramite II	<0.003	ppm (w/w)				
Aspon	<0.001	ppm (w/w)				
Atrazine	<0.002	ppm (w/w)				
Atrazine-desethyl	<0.002	ppm (w/w)				
Azinphos-ethyl	<0.002	ppm (w/w)				
Azinphos-methyl	<0.006	ppm (w/w)				
Azoxystrobin	<0.003	ppm (w/w)				
Benalaxyl	<0.001	ppm (w/w)				
Benfluralin	<0.001	ppm (w/w)				
Benodanil	<0.001	ppm (w/w)				
Benzoylprop ethyl	<0.002	ppm (w/w)				
BHC alpha isomer	<0.001	ppm (w/w)				
BHC beta isomer	<0.001	ppm (w/w)				
BHC delta isomer	<0.001	ppm (w/w)				
Bifenox	<0.002	ppm (w/w)				
Biphenyl	<0.001	ppm (w/w)				

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COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 66 of 96	

**TO:**

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 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Bifenthrin	<0.001	ppm (w/w)			
Boscalide	<0.001	ppm (w/w)			
Bromacil	<0.001	ppm (w/w)			
Bromophos-ethyl	<0.001	ppm (w/w)			
Bromophos-methyl	<0.001	ppm (w/w)			
Bromopropylate	<0.002	ppm (w/w)			
Bupirimate	<0.001	ppm (w/w)			
Buprofezin	<0.001	ppm (w/w)			
Butachlor	<0.001	ppm (w/w)			
Butralin	<0.003	ppm (w/w)			
Butylate	<0.002	ppm (w/w)			
Captafol (as Tetrahydroptalimid)	<0.008	ppm (w/w)			
Carbetamide	<0.001	ppm (w/w)			
Captan	<0.004	ppm (w/w)			
Carbofenthion	<0.001	ppm (w/w)			
Carboxin	<0.001	ppm (w/w)			
Chlorbenside	<0.001	ppm (w/w)			
Chlorbufam	<0.003	ppm (w/w)			
Chlordane-cis	<0.001	ppm (w/w)			
Chlordane-trans	<0.002	ppm (w/w)			
Chlordemeform	<0.001	ppm (w/w)			
Chlorfenapyr	<0.001	ppm (w/w)			
Chlorfenson	<0.001	ppm (w/w)			
Chlorfenvinphos-cis	<0.002	ppm (w/w)			
Chlorfenvinphos-trans	<0.001	ppm (w/w)			
Chlorflurenol-methyl	<0.001	ppm (w/w)			
Chloridazon	<0.002	ppm (w/w)			
Chlormephos	<0.002	ppm (w/w)			
Chlorobenzilate	<0.001	ppm (w/w)			
Chloroneb	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 67 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Chloropropilate	<0.001	ppm (w/w)			
Chlorothalonil	<0.001	ppm (w/w)			
Chlorpropham	<0.003	ppm (w/w)			
Chlorpyrifos	<0.001	ppm (w/w)			
Chlorpyrifos-methyl	<0.001	ppm (w/w)			
Chlorthion	<0.002	ppm (w/w)			
Chlorthiophos	<0.002	ppm (w/w)			
Chlozolate	<0.001	ppm (w/w)			
Clomazone	<0.001	ppm (w/w)			
Coumaphos	<0.002	ppm (w/w)			
Crotoxyphos	<0.003	ppm (w/w)			
Cruformate	<0.001	ppm (w/w)			
Cyanazine	<0.002	ppm (w/w)			
Cyanophos	<0.001	ppm (w/w)			
Cycloate	<0.005	ppm (w/w)			
Cyfluthrin	<0.001	ppm (w/w)			
Cyhalothrin lambda	<0.002	ppm (w/w)			
Cypermethrin	<0.001	ppm (w/w)			
Cyprazine	<0.001	ppm (w/w)			
Cyproconazole	<0.001	ppm (w/w)			
Cyprodinil	<0.001	ppm (w/w)			
Dacthal (Chlorthal-dimethyl)	<0.001	ppm (w/w)			
Deltamethrin	<0.002	ppm (w/w)			
delta-trans-Allethrin	<0.001	ppm (w/w)			
Demeton-o	<0.001	ppm (w/w)			
Demeton-s	<0.001	ppm (w/w)			
Demeton-s-methyl	<0.001	ppm (w/w)			
Desmetryn	<0.001	ppm (w/w)			
Diallate	<0.002	ppm (w/w)			
Diazinon	<0.002	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 68 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Diazinon-o-analog	<0.001	ppm (w/w)				
Dichlobenil	<0.001	ppm (w/w)				
Dichloran	<0.001	ppm (w/w)				
Dichlormid	<0.002	ppm (w/w)				
Dichlorvos	<0.001	ppm (w/w)				
Diclobutrazole	<0.001	ppm (w/w)				
Diclofenthion	<0.001	ppm (w/w)				
Diclofop-methyl	<0.001	ppm (w/w)				
Dicofol	<0.001	ppm (w/w)				
Dieldrin	<0.002	ppm (w/w)				
Diethyl-ethyl	<0.001	ppm (w/w)				
Dimethachlor	<0.001	ppm (w/w)				
Dinitramine	<0.001	ppm (w/w)				
Dioxathion	<0.002	ppm (w/w)				
Diphenamid	<0.001	ppm (w/w)				
Diphenylamine	<0.001	ppm (w/w)				
Disulfoton	<0.002	ppm (w/w)				
Disulfoton sulfone	<0.001	ppm (w/w)				
Edifenphos	<0.001	ppm (w/w)				
Endosulfan alpha	<0.002	ppm (w/w)				
Endosulfan beta	<0.003	ppm (w/w)				
Endosulfan sulfate	<0.001	ppm (w/w)				
Endrin	<0.002	ppm (w/w)				
EPN	<0.001	ppm (w/w)				
EPTC	<0.003	ppm (w/w)				
Erbon	<0.003	ppm (w/w)				
Esfenvalerate	<0.001	ppm (w/w)				
Etaconazole	<0.002	ppm (w/w)				
Ethalfuralin	<0.002	ppm (w/w)				
Ethion	<0.001	ppm (w/w)				

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 69 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Ethofumasate	<0.001	ppm (w/w)			
Ethoprophos	<0.001	ppm (w/w)			
Ethylan	<0.001	ppm (w/w)			
Etridiazole	<0.001	ppm (w/w)			
Etrimfos	<0.002	ppm (w/w)			
Fenamiphos	<0.001	ppm (w/w)			
Fenamiphos-sulfone	<0.006	ppm (w/w)			
Fenamiphos-sulfoxide	<0.006	ppm (w/w)			
Fenarimol	<0.001	ppm (w/w)			
Fenbuconazole	<0.001	ppm (w/w)			
Fenclorphos	<0.001	ppm (w/w)			
Fenfuram	<0.001	ppm (w/w)			
Fenitrothion	<0.003	ppm (w/w)			
Fenpropathrin	<0.001	ppm (w/w)			
Fenpropimorph	<0.001	ppm (w/w)			
Fenson	<0.001	ppm (w/w)			
Fensulfothion	<0.002	ppm (w/w)			
Fenthion	<0.001	ppm (w/w)			
Fenvalerate I	<0.001	ppm (w/w)			
Fenvalerate II	<0.001	ppm (w/w)			
Fipronil	<0.001	ppm (w/w)			
Flamprop-isopropyl	<0.001	ppm (w/w)			
Flamprop-methyl	<0.001	ppm (w/w)			
Fluchloralin	<0.003	ppm (w/w)			
Flucythrinate	<0.003	ppm (w/w)			
Fludioxonil	<0.001	ppm (w/w)			
Flumetralin	<0.001	ppm (w/w)			
Flurochloridone	<0.002	ppm (w/w)			
Flurodifen	<0.004	ppm (w/w)			
Flusilazole	<0.002	ppm (w/w)			

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COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 70 of 96</b>	

**TO:**

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Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Fluvalinate I+II	<0.002	ppm (w/w)			
Folpet	<0.012	ppm (w/w)			
Fonofos	<0.001	ppm (w/w)			
Heptachlor	<0.002	ppm (w/w)			
Heptachlor epoxide endo	<0.002	ppm (w/w)			
Heptenophos	<0.001	ppm (w/w)			
Hexachlorobenzene	<0.001	ppm (w/w)			
Hexaconazole	<0.001	ppm (w/w)			
Hexazinone	<0.001	ppm (w/w)			
Imazalil	<0.002	ppm (w/w)			
Iodfenphos	<0.001	ppm (w/w)			
Iprobenfos	<0.001	ppm (w/w)			
Iprodione	<0.002	ppm (w/w)			
Isazophos	<0.001	ppm (w/w)			
Isofenphos	<0.001	ppm (w/w)			
Isopropalin	<0.002	ppm (w/w)			
Isoprothiolane	<0.002	ppm (w/w)			
Kresoxin-me	<0.001	ppm (w/w)			
Leptophos	<0.001	ppm (w/w)			
Lindane (gamma-BHC)	<0.001	ppm (w/w)			
Malaoxon	<0.002	ppm (w/w)			
Malathion	<0.001	ppm (w/w)			
Mecarbam	<0.002	ppm (w/w)			
Metalaxyl	<0.001	ppm (w/w)			
Metazachlor	<0.001	ppm (w/w)			
Methamidophos	<0.001	ppm (w/w)			
Methidathion	<0.002	ppm (w/w)			
Methoprotryne	<0.002	ppm (w/w)			
Methoxychlor	<0.001	ppm (w/w)			
Methyl-pentachlorophenyl-sulphide	<0.001	ppm (w/w)			

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<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 71 of 96</b>	

**TO:**

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<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Metolachlor	<0.001	ppm (w/w)			
Metribuzin	<0.001	ppm (w/w)			
Mevinphos-cis	<0.001	ppm (w/w)			
Mevinphos-trans	<0.001	ppm (w/w)			
Mirex	<0.001	ppm (w/w)			
Molinate	<0.001	ppm (w/w)			
Monolinuron	<0.001	ppm (w/w)			
Myclobutanil	<0.001	ppm (w/w)			
Naled	<0.001	ppm (w/w)			
Nitrapyrin	<0.002	ppm (w/w)			
Nitrofen	<0.003	ppm (w/w)			
Nitrothal-isopropyl	<0.001	ppm (w/w)			
Norflurazon	<0.001	ppm (w/w)			
Nuarimol	<0.001	ppm (w/w)			
o,p-DDD	<0.001	ppm (w/w)			
o,p-DDT	<0.001	ppm (w/w)			
o,p-DDE	<0.001	ppm (w/w)			
Octhilinone	<0.001	ppm (w/w)			
Oxadiazon	<0.001	ppm (w/w)			
Oxyclordane	<0.001	ppm (w/w)			
Oxyfluorfen	<0.003	ppm (w/w)			
p,p-DDD	<0.001	ppm (w/w)			
p,p-DDE	<0.001	ppm (w/w)			
p,p-DDT	<0.001	ppm (w/w)			
Paraoxon	<0.002	ppm (w/w)			
Parathion	<0.002	ppm (w/w)			
Parathion-methyl	<0.003	ppm (w/w)			
Pebulate	<0.001	ppm (w/w)			
Penconazole	<0.002	ppm (w/w)			
Pendimethalin	<0.002	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 72 of 96	

**TO:**

 Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

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**Analytical Results**


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<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Pentachloroanilin	<0.003	ppm (w/w)				
Pentachlorobenzene	<0.001	ppm (w/w)				
Permethrin I	<0.001	ppm (w/w)				
Permethrin II	<0.001	ppm (w/w)				
Phenthoate	<0.001	ppm (w/w)				
Phenylphenol-o	<0.001	ppm (w/w)				
Phorate	<0.002	ppm (w/w)				
Phorate-sulfone	<0.001	ppm (w/w)				
Phosalone	<0.002	ppm (w/w)				
Phosphamidon	<0.002	ppm (w/w)				
Piperonyl Butoxide (PBO)	<0.001	ppm (w/w)				
Pirimicarb	<0.001	ppm (w/w)				
Pirimiphos-ethyl	<0.003	ppm (w/w)				
Pirimiphos-methyl	<0.001	ppm (w/w)				
Prochloraz	<0.001	ppm (w/w)				
Procymidone	<0.001	ppm (w/w)				
Profenofos	<0.003	ppm (w/w)				
Profluralin	<0.002	ppm (w/w)				
Prometon	<0.002	ppm (w/w)				
Prometryne	<0.001	ppm (w/w)				
Pronamide	<0.002	ppm (w/w)				
Propachlor	<0.001	ppm (w/w)				
Propamocarb	<0.001	ppm (w/w)				
Propanil	<0.003	ppm (w/w)				
Propargite	<0.001	ppm (w/w)				
Propazine	<0.001	ppm (w/w)				
Propetamphos	<0.001	ppm (w/w)				
Propham	<0.001	ppm (w/w)				
Propiconazole I + II	<0.001	ppm (w/w)				
Prothiofos	<0.001	ppm (w/w)				

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**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 73 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Pyracarbolid	<0.001	ppm (w/w)			
Pyrazophos	<0.002	ppm (w/w)			
Pyrethrin I	<0.002	ppm (w/w)			
Pyridaben	<0.001	ppm (w/w)			
Quinalphos	<0.001	ppm (w/w)			
Quinomethionate	<0.001	ppm (w/w)			
Quintozene-pentachloronitrobenzene	<0.002	ppm (w/w)			
Secbumeton	<0.002	ppm (w/w)			
Simazine	<0.001	ppm (w/w)			
Simetryn	<0.001	ppm (w/w)			
Sulfallate	<0.001	ppm (w/w)			
Sulfotep	<0.001	ppm (w/w)			
Sulprophos	<0.002	ppm (w/w)			
Tebuconazole	<0.001	ppm (w/w)			
Tecnazene	<0.003	ppm (w/w)			
Terbacil	<0.001	ppm (w/w)			
Terbufos	<0.001	ppm (w/w)			
Terbumeton	<0.001	ppm (w/w)			
Terbutylazine	<0.003	ppm (w/w)			
Terbutryne	<0.001	ppm (w/w)			
Tetrachlorvinphos	<0.002	ppm (w/w)			
Tetradifon	<0.001	ppm (w/w)			
Tetramethrin I	<0.001	ppm (w/w)			
Tetramethrin II	<0.001	ppm (w/w)			
Tetrasul	<0.001	ppm (w/w)			
Thiobencarb	<0.001	ppm (w/w)			
Tolclofos Methyl	<0.001	ppm (w/w)			
Tralomethrin	<0.001	ppm (w/w)			
Triadimefon	<0.001	ppm (w/w)			
Triallate	<0.001	ppm (w/w)			

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**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 74 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Triazophos	<0.002	ppm (w/w)				
Tribufos	<0.001	ppm (w/w)				
Trifloxystrobin	<0.001	ppm (w/w)				
Triflumizole	<0.002	ppm (w/w)				
Trifluralin	<0.002	ppm (w/w)				
Vernolate	<0.001	ppm (w/w)				
Vinclozolin	<0.002	ppm (w/w)				
3-OH-carbofuran	<0.001	ppm (w/w)				
Abamectin	<0.005	ppm (w/w)				
Acephate	<0.002	ppm (w/w)				
Acetamipred	<0.002	ppm (w/w)				
Acetochlor	<0.001	ppm (w/w)				
Aclonifen	<0.005	ppm (w/w)				
Aldicarb	<0.002	ppm (w/w)				
Aldicarb sulfone	<0.002	ppm (w/w)				
Aldicarb sulfoxide	<0.002	ppm (w/w)				
Anilofos	<0.001	ppm (w/w)				
Azaconazole	<0.001	ppm (w/w)				
Bendiocarb	<0.001	ppm (w/w)				
Benoxacor	<0.001	ppm (w/w)				
Bensulide	<0.002	ppm (w/w)				
Bitertanol	<0.001	ppm (w/w)				
Bromuconazole	<0.001	ppm (w/w)				
Butafenacil	<0.001	ppm (w/w)				
Butocarboxim sulfoxide	<0.001	ppm (w/w)				
Cadusafos	<0.001	ppm (w/w)				
Carbaryl	<0.002	ppm (w/w)				
Carbofuran	<0.001	ppm (w/w)				
Carbosulfan	<0.005	ppm (w/w)				
Carfentrazone-ethyl	<0.001	ppm (w/w)				

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 75 of 96	

**TO:**

 Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

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**Analytical Results**


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<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Chlorantriliprole	<0.001	ppm (w/w)				
Chlorbromuron	<0.003	ppm (w/w)				
Chlorimuron ethyl	<0.001	ppm (w/w)				
Chloroxuron	<0.001	ppm (w/w)				
Chlorthiamid	<0.002	ppm (w/w)				
Chlortoluron	<0.001	ppm (w/w)				
Clodinafop-propargyl	<0.001	ppm (w/w)				
Cloquintocet-methyl	<0.001	ppm (w/w)				
Clothianidin	<0.001	ppm (w/w)				
Cyanofenphos	<0.001	ppm (w/w)				
Cyazofamid	<0.001	ppm (w/w)				
Cycloxydim	<0.001	ppm (w/w)				
Cycluron	<0.001	ppm (w/w)				
Cyromazine	<0.001	ppm (w/w)				
Demeton-s-methyl-sulfone	<0.001	ppm (w/w)				
Demeton-s-methyl-sulfoxide	<0.001	ppm (w/w)				
Desmedipham	<0.001	ppm (w/w)				
Dialofos	<0.001	ppm (w/w)				
Dichlofulanid	<0.002	ppm (w/w)				
Diclocymet	<0.001	ppm (w/w)				
Dicrotophos	<0.002	ppm (w/w)				
Diethofencarb	<0.001	ppm (w/w)				
Difenoconazole	<0.001	ppm (w/w)				
Dimethametryn	<0.001	ppm (w/w)				
Dimethomorph	<0.001	ppm (w/w)				
Dimethoate	<0.002	ppm (w/w)				
Dimetilan	<0.001	ppm (w/w)				
Dimoxystrobin	<0.001	ppm (w/w)				
Diniconazole	<0.001	ppm (w/w)				
Dioxacarb	<0.002	ppm (w/w)				

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 Tel. 604-432-9311 Fax. 604-432-7768

<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 76 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Dipropetryn	<0.001	ppm (w/w)			
Diuron	<0.001	ppm (w/w)			
Dodemorph	<0.001	ppm (w/w)			
Emamectin	<0.001	ppm (w/w)			
Epoxyconazole	<0.001	ppm (w/w)			
Ethiofencarb	<0.001	ppm (w/w)			
Ethiofencarb sulfone	<0.001	ppm (w/w)			
Ethiofencarb sulfoxide	<0.001	ppm (w/w)			
Ethiprole	<0.001	ppm (w/w)			
Ethirimol	<0.001	ppm (w/w)			
Ethoprop	<0.001	ppm (w/w)			
Etofenprox	<0.001	ppm (w/w)			
Etoxazole	<0.001	ppm (w/w)			
Fenamidone	<0.001	ppm (w/w)			
Fenazaquin	<0.001	ppm (w/w)			
Fenhexamid	<0.001	ppm (w/w)			
Fenoxanil	<0.001	ppm (w/w)			
Fenpropidine	<0.001	ppm (w/w)			
Fenpyroximate	<0.001	ppm (w/w)			
Fentrazamide	<0.001	ppm (w/w)			
Fluazifop-butyl	<0.001	ppm (w/w)			
Flubendiamide	<0.001	ppm (w/w)			
Flucarbazone-sodium	<0.001	ppm (w/w)			
Fluoxastrobin	<0.001	ppm (w/w)			
Flutolanil	<0.001	ppm (w/w)			
Flutriafol	<0.001	ppm (w/w)			
Forchlorfenuron	<0.001	ppm (w/w)			
Fosthiazate	<0.001	ppm (w/w)			
Fuberidazole	<0.001	ppm (w/w)			
Furathiocarb	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 77 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Griseofulvin	<0.001	ppm (w/w)				
Haloxyfop	<0.001	ppm (w/w)				
Imazamethabenz-methyl	<0.001	ppm (w/w)				
Imidacloprid	<0.001	ppm (w/w)				
Indoxacarb	<0.002	ppm (w/w)				
Ipconazole	<0.001	ppm (w/w)				
Iprovalicarb	<0.001	ppm (w/w)				
Isocarbamide	<0.001	ppm (w/w)				
Isoprocarb	<0.001	ppm (w/w)				
Isoxadifen-ethyl	<0.001	ppm (w/w)				
Isoxathion	<0.001	ppm (w/w)				
Linuron	<0.003	ppm (w/w)				
Mandipropamid	<0.001	ppm (w/w)				
Mepanipyrim	<0.001	ppm (w/w)				
Mephosfolan	<0.001	ppm (w/w)				
Methabenzthiazuron	<0.001	ppm (w/w)				
Methiocarb	<0.002	ppm (w/w)				
Methiocarb sulfone	<0.001	ppm (w/w)				
Methiocarb sulfoxide	<0.002	ppm (w/w)				
Methomyl	<0.001	ppm (w/w)				
Methoxyfenozide	<0.001	ppm (w/w)				
Methyl trithion	<0.002	ppm (w/w)				
Metobromuron	<0.002	ppm (w/w)				
Metolcarb	<0.001	ppm (w/w)				
Metosulam	<0.001	ppm (w/w)				
Metoxuron	<0.001	ppm (w/w)				
Mexacarbate	<0.002	ppm (w/w)				
Monocrotophos	<0.002	ppm (w/w)				
Napropamide	<0.001	ppm (w/w)				
Naptalam	<0.001	ppm (w/w)				

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COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 78 of 96	

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Received Date:	5/8/18
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Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Neburon	<0.001	ppm (w/w)			
Nitralin	<0.002	ppm (w/w)			
Ofurace	<0.001	ppm (w/w)			
Omethoate	<0.002	ppm (w/w)			
Oxadixyl	<0.001	ppm (w/w)			
Oxamyl	<0.002	ppm (w/w)			
Oxamyl-oxime	<0.001	ppm (w/w)			
Oxycarboxin	<0.002	ppm (w/w)			
Oxydemeton-me	<0.001	ppm (w/w)			
Paclobutrazol	<0.001	ppm (w/w)			
Pencycuron	<0.001	ppm (w/w)			
Penoxsulam	<0.002	ppm (w/w)			
Phosmet	<0.002	ppm (w/w)			
Picolinafen	<0.001	ppm (w/w)			
Picoxystrobin	<0.001	ppm (w/w)			
Piperophos	<0.001	ppm (w/w)			
Pretilachlor	<0.001	ppm (w/w)			
Primisulfuron-methyl	<0.001	ppm (w/w)			
Prodiamine	<0.001	ppm (w/w)			
Promecarb	<0.002	ppm (w/w)			
Propoxur	<0.002	ppm (w/w)			
Pymetrozine	<0.001	ppm (w/w)			
Pyraclostrobin	<0.001	ppm (w/w)			
Pyraflufen-ethyl	<0.001	ppm (w/w)			
Pyridalyl	<0.001	ppm (w/w)			
Pyridaphenthion	<0.001	ppm (w/w)			
Pyridate	<0.001	ppm (w/w)			
Pyrifenox	<0.001	ppm (w/w)			
Pyrimethanil	<0.001	ppm (w/w)			
Pyriproxyfen	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 79 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
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<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Pyroquilon	<0.001	ppm (w/w)				
Pyroxsulam	<0.001	ppm (w/w)				
Quinoxifen	<0.001	ppm (w/w)				
Quizalofop	<0.001	ppm (w/w)				
Quizalofop-ethyl	<0.001	ppm (w/w)				
Schradan	<0.001	ppm (w/w)				
Simeconazole	<0.0002	ppm (w/w)				
Spinosyn a	<0.001	ppm (w/w)				
Spinosyn d	<0.001	ppm (w/w)				
Spirodiclofen	<0.001	ppm (w/w)				
Spiromesifen	<0.001	ppm (w/w)				
Spirotetramat	<0.001	ppm (w/w)				
Spiroxamine	<0.001	ppm (w/w)				
Sulfentrazone	<0.001	ppm (w/w)				
TCMTB	<0.006	ppm (w/w)				
Tebufenozide	<0.001	ppm (w/w)				
Tebufenpyrad	<0.001	ppm (w/w)				
Tebupirimfos	<0.001	ppm (w/w)				
Tepraloxdim	<0.001	ppm (w/w)				
Tetraconazole	<0.001	ppm (w/w)				
Thiabendazole	<0.002	ppm (w/w)				
Thiacloprid	<0.001	ppm (w/w)				
Thiamethoxam	<0.001	ppm (w/w)				
Thiazopyr	<0.001	ppm (w/w)				
Thiodicarb	<0.002	ppm (w/w)				
Thiofanox	<0.001	ppm (w/w)				
Thiofanox sulfone	<0.001	ppm (w/w)				
Thiofanox sulfoxide	<0.001	ppm (w/w)				
Thiophanate methyl	<0.005	ppm (w/w)				
Tolfenpyrad	<0.001	ppm (w/w)				

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**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 80 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147852
<b>Desc. 2:</b>	YP39	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D16-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112145		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Tolyfluanid	<0.002	ppm (w/w)				
Tralkoxydim	<0.001	ppm (w/w)				
Triadimenol	<0.001	ppm (w/w)				
Trichlorfon	<0.001	ppm (w/w)				
Tricyclazole	<0.003	ppm (w/w)				
Trietazine	<0.001	ppm (w/w)				
Trifloxysulfuron	<0.001	ppm (w/w)				
Triforine	<0.001	ppm (w/w)				
Trimethacarb	<0.001	ppm (w/w)				
Zinophos (thionazin)	<0.001	ppm (w/w)				
Zoxamide	<0.005	ppm (w/w)				
Carbendazim	<0.002	ppm (w/w)				

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COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 81 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Glyphosate / AMPA			EU Ref Lab for SRM	M-H580	5/16/18
AMPA	<0.01	ppm (w/w)			
Glyphosate	<0.005	ppm (w/w)			
Multi-residue Pesticides			CFIA PMR-006-v1.0	M-H553	5/16/18
<u>Compounds Detected</u>					
(none detected)					
<u>Compounds Not Detected</u>					
Acibenzolar-s-methyl	<0.002	ppm (w/w)			
Alachlor	<0.001	ppm (w/w)			
Aldrin	<0.001	ppm (w/w)			
Allidochlor	<0.001	ppm (w/w)			
Ametryn	<0.001	ppm (w/w)			
Aminocarb	<0.001	ppm (w/w)			
Aramite I	<0.002	ppm (w/w)			
Aramite II	<0.003	ppm (w/w)			
Aspon	<0.001	ppm (w/w)			
Atrazine	<0.002	ppm (w/w)			
Atrazine-desethyl	<0.002	ppm (w/w)			
Azinphos-ethyl	<0.002	ppm (w/w)			
Azinphos-methyl	<0.006	ppm (w/w)			
Azoxystrobin	<0.003	ppm (w/w)			
Benalaxyl	<0.001	ppm (w/w)			
Benfluralin	<0.001	ppm (w/w)			
Benodanil	<0.001	ppm (w/w)			
Benzoylprop ethyl	<0.002	ppm (w/w)			
BHC alpha isomer	<0.001	ppm (w/w)			
BHC beta isomer	<0.001	ppm (w/w)			
BHC delta isomer	<0.001	ppm (w/w)			
Bifenox	<0.002	ppm (w/w)			
Biphenyl	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 82 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Bifenthrin	<0.001	ppm (w/w)			
Boscalide	<0.001	ppm (w/w)			
Bromacil	<0.001	ppm (w/w)			
Bromophos-ethyl	<0.001	ppm (w/w)			
Bromophos-methyl	<0.001	ppm (w/w)			
Bromopropylate	<0.002	ppm (w/w)			
Bupirimate	<0.001	ppm (w/w)			
Buprofezin	<0.001	ppm (w/w)			
Butachlor	<0.001	ppm (w/w)			
Butralin	<0.003	ppm (w/w)			
Butylate	<0.002	ppm (w/w)			
Captafol (as Tetrahydroptalimid)	<0.008	ppm (w/w)			
Carbetamide	<0.001	ppm (w/w)			
Captan	<0.004	ppm (w/w)			
Carbofenthion	<0.001	ppm (w/w)			
Carboxin	<0.001	ppm (w/w)			
Chlorbenside	<0.001	ppm (w/w)			
Chlorbufam	<0.003	ppm (w/w)			
Chlordane-cis	<0.001	ppm (w/w)			
Chlordane-trans	<0.002	ppm (w/w)			
Chlordemeform	<0.001	ppm (w/w)			
Chlorfenapyr	<0.001	ppm (w/w)			
Chlorfenson	<0.001	ppm (w/w)			
Chlorfenvinphos-cis	<0.002	ppm (w/w)			
Chlorfenvinphos-trans	<0.001	ppm (w/w)			
Chlorflurenol-methyl	<0.001	ppm (w/w)			
Chloridazon	<0.002	ppm (w/w)			
Chlormephos	<0.002	ppm (w/w)			
Chlorobenzilate	<0.001	ppm (w/w)			
Chloroneb	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 83 of 96	

**TO:**

 Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

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**Analytical Results**


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<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Chloropropilate	<0.001	ppm (w/w)				
Chlorpropham	<0.003	ppm (w/w)				
Chlorpyrifos	<0.001	ppm (w/w)				
Chlorpyrifos-methyl	<0.001	ppm (w/w)				
Chlorthion	<0.002	ppm (w/w)				
Chlorthiophos	<0.002	ppm (w/w)				
Chlozolinat	<0.001	ppm (w/w)				
Clomazone	<0.001	ppm (w/w)				
Coumaphos	<0.002	ppm (w/w)				
Crotoxyphos	<0.003	ppm (w/w)				
Cruformate	<0.001	ppm (w/w)				
Cyanazine	<0.002	ppm (w/w)				
Cyanophos	<0.001	ppm (w/w)				
Cycloate	<0.005	ppm (w/w)				
Cyfluthrin	<0.001	ppm (w/w)				
Cyhalothrin lambda	<0.002	ppm (w/w)				
Cypermethrin	<0.001	ppm (w/w)				
Cyprazine	<0.001	ppm (w/w)				
Cyproconazole	<0.001	ppm (w/w)				
Cyprodinil	<0.001	ppm (w/w)				
Dacthal (Chlorthal-dimethyl)	<0.001	ppm (w/w)				
Deltamethrin	<0.002	ppm (w/w)				
delta-trans-Allethrin	<0.001	ppm (w/w)				
Demeton-o	<0.001	ppm (w/w)				
Demeton-s	<0.001	ppm (w/w)				
Demeton-s-methyl	<0.001	ppm (w/w)				
Desmetryn	<0.001	ppm (w/w)				
Diallate	<0.002	ppm (w/w)				
Diazinon	<0.002	ppm (w/w)				
Diazinon-o-analog	<0.001	ppm (w/w)				

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 84 of 96	

**TO:**

 Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

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**Analytical Results**


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<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Dichlobenil	<0.001	ppm (w/w)				
Dichloran	<0.001	ppm (w/w)				
Dichlormid	<0.002	ppm (w/w)				
Dichlorvos	<0.001	ppm (w/w)				
Diclobutrazole	<0.001	ppm (w/w)				
Diclofenthion	<0.001	ppm (w/w)				
Diclofop-methyl	<0.001	ppm (w/w)				
Dicofol	<0.001	ppm (w/w)				
Dieldrin	<0.002	ppm (w/w)				
Diethyl-ethyl	<0.001	ppm (w/w)				
Dimethachlor	<0.001	ppm (w/w)				
Dinitramine	<0.001	ppm (w/w)				
Dioxathion	<0.002	ppm (w/w)				
Diphenamid	<0.001	ppm (w/w)				
Diphenylamine	<0.001	ppm (w/w)				
Disulfoton	<0.002	ppm (w/w)				
Disulfoton sulfone	<0.001	ppm (w/w)				
Edifenphos	<0.001	ppm (w/w)				
Endosulfan alpha	<0.002	ppm (w/w)				
Endosulfan beta	<0.003	ppm (w/w)				
Endosulfan sulfate	<0.001	ppm (w/w)				
Endrin	<0.002	ppm (w/w)				
EPN	<0.001	ppm (w/w)				
EPTC	<0.003	ppm (w/w)				
Erbon	<0.003	ppm (w/w)				
Esfenvalerate	<0.001	ppm (w/w)				
Etaconazole	<0.002	ppm (w/w)				
Ethalfuralin	<0.002	ppm (w/w)				
Ethion	<0.001	ppm (w/w)				
Ethofumasate	<0.001	ppm (w/w)				

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 85 of 96	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Ethoprophos	<0.001	ppm (w/w)			
Ethylan	<0.001	ppm (w/w)			
Etridiazole	<0.001	ppm (w/w)			
Etrimfos	<0.002	ppm (w/w)			
Fenamiphos	<0.001	ppm (w/w)			
Fenamiphos-sulfone	<0.006	ppm (w/w)			
Fenamiphos-sulfoxide	<0.006	ppm (w/w)			
Fenarimol	<0.001	ppm (w/w)			
Fenbuconazole	<0.001	ppm (w/w)			
Fenclorphos	<0.001	ppm (w/w)			
Fenfuram	<0.001	ppm (w/w)			
Fenitrothion	<0.003	ppm (w/w)			
Fenpropathrin	<0.001	ppm (w/w)			
Fenpropimorph	<0.001	ppm (w/w)			
Fenson	<0.001	ppm (w/w)			
Fensulfothion	<0.002	ppm (w/w)			
Fenthion	<0.001	ppm (w/w)			
Fenvalerate I	<0.001	ppm (w/w)			
Fenvalerate II	<0.001	ppm (w/w)			
Fipronil	<0.001	ppm (w/w)			
Flamprop-isopropyl	<0.001	ppm (w/w)			
Flamprop-methyl	<0.001	ppm (w/w)			
Fluchloralin	<0.003	ppm (w/w)			
Flucythrinate	<0.003	ppm (w/w)			
Fludioxonil	<0.001	ppm (w/w)			
Flumetralin	<0.001	ppm (w/w)			
Flurochloridone	<0.002	ppm (w/w)			
Flurodifen	<0.004	ppm (w/w)			
Flusilazole	<0.002	ppm (w/w)			
Fluvalinate I+II	<0.002	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 86 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Folpet	<0.012	ppm (w/w)			
Fonofos	<0.001	ppm (w/w)			
Heptachlor	<0.002	ppm (w/w)			
Heptachlor epoxide endo	<0.002	ppm (w/w)			
Heptenophos	<0.001	ppm (w/w)			
Hexachlorobenzene	<0.001	ppm (w/w)			
Hexaconazole	<0.001	ppm (w/w)			
Hexazinone	<0.001	ppm (w/w)			
Imazalil	<0.002	ppm (w/w)			
Iodfenphos	<0.001	ppm (w/w)			
Iprobenfos	<0.001	ppm (w/w)			
Iprodione	<0.002	ppm (w/w)			
Isazophos	<0.001	ppm (w/w)			
Isofenphos	<0.001	ppm (w/w)			
Isopropalin	<0.002	ppm (w/w)			
Isoprothiolane	<0.002	ppm (w/w)			
Kresoxin-me	<0.001	ppm (w/w)			
Leptophos	<0.001	ppm (w/w)			
Lindane (gamma-BHC)	<0.001	ppm (w/w)			
Malaoxon	<0.002	ppm (w/w)			
Malathion	<0.001	ppm (w/w)			
Mecarbam	<0.002	ppm (w/w)			
Metalaxyl	<0.001	ppm (w/w)			
Metazachlor	<0.001	ppm (w/w)			
Methamidophos	<0.001	ppm (w/w)			
Methidathion	<0.002	ppm (w/w)			
Methoprotryne	<0.002	ppm (w/w)			
Methoxychlor	<0.001	ppm (w/w)			
Methyl-pentachlorophenyl-sulphide	<0.001	ppm (w/w)			
Metolachlor	<0.001	ppm (w/w)			

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<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 87 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
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<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Metribuzin	<0.001	ppm (w/w)			
Mevinphos-cis	<0.001	ppm (w/w)			
Mevinphos-trans	<0.001	ppm (w/w)			
Mirex	<0.001	ppm (w/w)			
Molinate	<0.001	ppm (w/w)			
Monolinuron	<0.001	ppm (w/w)			
Myclobutanil	<0.001	ppm (w/w)			
Naled	<0.001	ppm (w/w)			
Nitrapyrin	<0.002	ppm (w/w)			
Nitrofen	<0.003	ppm (w/w)			
Nitrothal-isopropyl	<0.001	ppm (w/w)			
Norflurazon	<0.001	ppm (w/w)			
Nuarimol	<0.001	ppm (w/w)			
o,p-DDD	<0.001	ppm (w/w)			
o,p-DDT	<0.001	ppm (w/w)			
o,p-DDE	<0.001	ppm (w/w)			
Oxadiazon	<0.001	ppm (w/w)			
Oxycloardane	<0.001	ppm (w/w)			
Oxyfluorfen	<0.003	ppm (w/w)			
p,p-DDD	<0.001	ppm (w/w)			
p,p-DDE	<0.001	ppm (w/w)			
p,p-DDT	<0.001	ppm (w/w)			
Paraoxon	<0.002	ppm (w/w)			
Parathion	<0.002	ppm (w/w)			
Parathion-methyl	<0.003	ppm (w/w)			
Pebulate	<0.001	ppm (w/w)			
Penconazole	<0.002	ppm (w/w)			
Pendimethalin	<0.002	ppm (w/w)			
Pentachloroanilin	<0.003	ppm (w/w)			
Pentachlorobenzene	<0.001	ppm (w/w)			

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**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 88 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Permethrin I	<0.001	ppm (w/w)			
Permethrin II	<0.001	ppm (w/w)			
Phenthoate	<0.001	ppm (w/w)			
Phenylphenol-o	<0.001	ppm (w/w)			
Phorate	<0.002	ppm (w/w)			
Phorate-sulfone	<0.001	ppm (w/w)			
Phosalone	<0.002	ppm (w/w)			
Phosphamidon	<0.002	ppm (w/w)			
Piperonyl Butoxide (PBO)	<0.001	ppm (w/w)			
Pirimicarb	<0.001	ppm (w/w)			
Pirimiphos-ethyl	<0.003	ppm (w/w)			
Pirimiphos-methyl	<0.001	ppm (w/w)			
Prochloraz	<0.001	ppm (w/w)			
Procymidone	<0.001	ppm (w/w)			
Profenofos	<0.003	ppm (w/w)			
Profluralin	<0.002	ppm (w/w)			
Prometon	<0.002	ppm (w/w)			
Prometryne	<0.001	ppm (w/w)			
Pronamide	<0.002	ppm (w/w)			
Propachlor	<0.001	ppm (w/w)			
Propanil	<0.003	ppm (w/w)			
Propargite	<0.001	ppm (w/w)			
Propazine	<0.001	ppm (w/w)			
Propetamphos	<0.001	ppm (w/w)			
Propham	<0.001	ppm (w/w)			
Propiconazole I + II	<0.001	ppm (w/w)			
Prothiofos	<0.001	ppm (w/w)			
Pyracarbolid	<0.001	ppm (w/w)			
Pyrazophos	<0.002	ppm (w/w)			
Pyrethrin I	<0.002	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 89 of 96</b>	

**TO:**

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 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Pyridaben	<0.001	ppm (w/w)			
Quinalphos	<0.001	ppm (w/w)			
Quinomethionate	<0.001	ppm (w/w)			
Quintozene-pentachloronitrobenzene	<0.002	ppm (w/w)			
Secbumeton	<0.002	ppm (w/w)			
Simazine	<0.001	ppm (w/w)			
Simetryn	<0.001	ppm (w/w)			
Sulfallate	<0.001	ppm (w/w)			
Sulfotep	<0.001	ppm (w/w)			
Sulprophos	<0.002	ppm (w/w)			
Tebuconazole	<0.001	ppm (w/w)			
Tecnazene	<0.003	ppm (w/w)			
Terbacil	<0.001	ppm (w/w)			
Terbufos	<0.001	ppm (w/w)			
Terbumeton	<0.001	ppm (w/w)			
Terbuthylazine	<0.003	ppm (w/w)			
Terbutryne	<0.001	ppm (w/w)			
Tetrachlorvinphos	<0.002	ppm (w/w)			
Tetradifon	<0.001	ppm (w/w)			
Tetramethrin I	<0.001	ppm (w/w)			
Tetramethrin II	<0.001	ppm (w/w)			
Tetrasul	<0.001	ppm (w/w)			
Thiobencarb	<0.001	ppm (w/w)			
Tolclofos Methyl	<0.001	ppm (w/w)			
Tralomethrin	<0.001	ppm (w/w)			
Triadimefon	<0.001	ppm (w/w)			
Triallate	<0.001	ppm (w/w)			
Triazophos	<0.002	ppm (w/w)			
Tribufos	<0.001	ppm (w/w)			
Trifloxystrobin	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 90 of 96</b>	

**TO:**

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 Assay Technician  
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<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Triflumizole	<0.002	ppm (w/w)			
Trifluralin	<0.002	ppm (w/w)			
Vernolate	<0.001	ppm (w/w)			
Vinclozolin	<0.002	ppm (w/w)			
3-OH-carbofuran	<0.001	ppm (w/w)			
Abamectin	<0.005	ppm (w/w)			
Acephate	<0.002	ppm (w/w)			
Acetamipred	<0.002	ppm (w/w)			
Acetochlor	<0.001	ppm (w/w)			
Aclonifen	<0.005	ppm (w/w)			
Aldicarb	<0.002	ppm (w/w)			
Aldicarb sulfone	<0.002	ppm (w/w)			
Aldicarb sulfoxide	<0.002	ppm (w/w)			
Anilofos	<0.001	ppm (w/w)			
Azaconazole	<0.001	ppm (w/w)			
Bendiocarb	<0.001	ppm (w/w)			
Benoxacor	<0.001	ppm (w/w)			
Bensulide	<0.002	ppm (w/w)			
Bitertanol	<0.001	ppm (w/w)			
Bromuconazole	<0.001	ppm (w/w)			
Butafenacil	<0.001	ppm (w/w)			
Butocarboxim sulfoxide	<0.001	ppm (w/w)			
Cadusafos	<0.001	ppm (w/w)			
Carbaryl	<0.002	ppm (w/w)			
Carbofuran	<0.001	ppm (w/w)			
Carbosulfan	<0.005	ppm (w/w)			
Carfentrazone-ethyl	<0.001	ppm (w/w)			
Chlorantriliprole	<0.001	ppm (w/w)			
Chlorbromuron	<0.003	ppm (w/w)			
Chlorimuron ethyl	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 91 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Chloroxuron	<0.001	ppm (w/w)			
Chlorthiamid	<0.002	ppm (w/w)			
Chlortoluron	<0.001	ppm (w/w)			
Clodinafop-propargyl	<0.001	ppm (w/w)			
Cloquintocet-methyl	<0.001	ppm (w/w)			
Clothianidin	<0.001	ppm (w/w)			
Cyanofenphos	<0.001	ppm (w/w)			
Cyazofamid	<0.001	ppm (w/w)			
Cycloxydim	<0.001	ppm (w/w)			
Cycluron	<0.001	ppm (w/w)			
Cyromazine	<0.001	ppm (w/w)			
Demeton-s-methyl-sulfone	<0.001	ppm (w/w)			
Demeton-s-methyl-sulfoxide	<0.001	ppm (w/w)			
Desmedipham	<0.001	ppm (w/w)			
Dialofos	<0.001	ppm (w/w)			
Dichlofulanid	<0.002	ppm (w/w)			
Diclocymet	<0.001	ppm (w/w)			
Dicrotophos	<0.002	ppm (w/w)			
Diethofencarb	<0.001	ppm (w/w)			
Difenoconazole	<0.001	ppm (w/w)			
Dimethametryn	<0.001	ppm (w/w)			
Dimethomorph	<0.001	ppm (w/w)			
Dimethoate	<0.002	ppm (w/w)			
Dimetilan	<0.001	ppm (w/w)			
Dimoxystrobin	<0.001	ppm (w/w)			
Diniconazole	<0.001	ppm (w/w)			
Dioxacarb	<0.002	ppm (w/w)			
Dipropetryn	<0.001	ppm (w/w)			
Diuron	<0.001	ppm (w/w)			
Dodemorph	<0.001	ppm (w/w)			

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 Tel. 604-432-9311 Fax. 604-432-7768

<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 92 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

<b>Received From:</b>	Winnipeg, MB
<b>Received Date:</b>	5/8/18
<b>P.O.# / ID:</b>	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Emamectin	<0.001	ppm (w/w)			
Epoxyconazole	<0.001	ppm (w/w)			
Ethiofencarb	<0.001	ppm (w/w)			
Ethiofencarb sulfone	<0.001	ppm (w/w)			
Ethiofencarb sulfoxide	<0.001	ppm (w/w)			
Ethiprole	<0.001	ppm (w/w)			
Ethirimol	<0.001	ppm (w/w)			
Ethoprop	<0.001	ppm (w/w)			
Etofenprox	<0.001	ppm (w/w)			
Etoxazole	<0.001	ppm (w/w)			
Fenamidone	<0.001	ppm (w/w)			
Fenazaquin	<0.001	ppm (w/w)			
Fenhexamid	<0.001	ppm (w/w)			
Fenoxanil	<0.001	ppm (w/w)			
Fenpropidine	<0.001	ppm (w/w)			
Fenpyroximate	<0.001	ppm (w/w)			
Fentrazamide	<0.001	ppm (w/w)			
Fluazifop-butyl	<0.001	ppm (w/w)			
Flubendiamide	<0.001	ppm (w/w)			
Flucarbazone-sodium	<0.001	ppm (w/w)			
Fluoxastrobin	<0.001	ppm (w/w)			
Flutolanil	<0.001	ppm (w/w)			
Flutriafol	<0.001	ppm (w/w)			
Forchlorfenuron	<0.001	ppm (w/w)			
Fosthiazate	<0.001	ppm (w/w)			
Fuberidazole	<0.001	ppm (w/w)			
Furathiocarb	<0.001	ppm (w/w)			
Griseofulvin	<0.001	ppm (w/w)			
Haloxyfop	<0.001	ppm (w/w)			
Imazamethabenz-methyl	<0.001	ppm (w/w)			

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COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 93 of 96</b>	

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Received From:	Winnipeg, MB
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P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Imidacloprid	<0.001	ppm (w/w)			
Indoxacarb	<0.002	ppm (w/w)			
Ipconazole	<0.001	ppm (w/w)			
Iprovalicarb	<0.001	ppm (w/w)			
Isocarbamide	<0.001	ppm (w/w)			
Isoprocarb	<0.001	ppm (w/w)			
Isoxadifen-ethyl	<0.001	ppm (w/w)			
Isoxathion	<0.001	ppm (w/w)			
Linuron	<0.003	ppm (w/w)			
Mandipropamid	<0.001	ppm (w/w)			
Mepanipyrim	<0.001	ppm (w/w)			
Mephosfolan	<0.001	ppm (w/w)			
Methabenzthiazuron	<0.001	ppm (w/w)			
Methiocarb	<0.002	ppm (w/w)			
Methiocarb sulfone	<0.001	ppm (w/w)			
Methiocarb sulfoxide	<0.002	ppm (w/w)			
Methomyl	<0.001	ppm (w/w)			
Methoxyfenozide	<0.001	ppm (w/w)			
Methyl trithion	<0.002	ppm (w/w)			
Metobromuron	<0.002	ppm (w/w)			
Metolcarb	<0.001	ppm (w/w)			
Metosulam	<0.001	ppm (w/w)			
Metoxuron	<0.001	ppm (w/w)			
Mexacarbate	<0.002	ppm (w/w)			
Monocrotophos	<0.002	ppm (w/w)			
Napropamide	<0.001	ppm (w/w)			
Naptalam	<0.001	ppm (w/w)			
Neburon	<0.001	ppm (w/w)			
Nitralin	<0.002	ppm (w/w)			
Ofurace	<0.001	ppm (w/w)			

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<b>COA No:</b>	BRN-41211837-0
<b>Supersedes:</b>	None
<b>COA Date</b>	5/18/18
<b>Page 94 of 96</b>	

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<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Omethoate	<0.002	ppm (w/w)			
Oxadixyl	<0.001	ppm (w/w)			
Oxamyl	<0.002	ppm (w/w)			
Oxamyl-oxime	<0.001	ppm (w/w)			
Oxycarboxin	<0.002	ppm (w/w)			
Oxydemeton-me	<0.001	ppm (w/w)			
Paclobutrazol	<0.001	ppm (w/w)			
Pencycuron	<0.001	ppm (w/w)			
Penoxsulam	<0.002	ppm (w/w)			
Phosmet	<0.002	ppm (w/w)			
Picolinafen	<0.001	ppm (w/w)			
Picoxystrobin	<0.001	ppm (w/w)			
Piperophos	<0.001	ppm (w/w)			
Pretilachlor	<0.001	ppm (w/w)			
Primisulfuron-methyl	<0.001	ppm (w/w)			
Prodiamine	<0.001	ppm (w/w)			
Promecarb	<0.002	ppm (w/w)			
Propoxur	<0.002	ppm (w/w)			
Pymetrozine	<0.001	ppm (w/w)			
Pyraclostrobin	<0.001	ppm (w/w)			
Pyraflufen-ethyl	<0.001	ppm (w/w)			
Pyridalyl	<0.001	ppm (w/w)			
Pyridaphenthion	<0.001	ppm (w/w)			
Pyridate	<0.001	ppm (w/w)			
Pyrifenox	<0.001	ppm (w/w)			
Pyrimethanil	<0.001	ppm (w/w)			
Pyriproxyfen	<0.001	ppm (w/w)			
Pyroquilon	<0.001	ppm (w/w)			
Pyroxsulam	<0.001	ppm (w/w)			
Quinoxifen	<0.001	ppm (w/w)			

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**Silliker JR Laboratories, ULC**

106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
 Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
<b>Page 95 of 96</b>	

**TO:**

Mr. Jim Logie  
 Assay Technician  
 Burcon NutraScience (MB) Corp.  
 1388 Waller Avenue  
 Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
<b>Location of Test: (except where noted)</b> Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Quizalofop	<0.001	ppm (w/w)			
Quizalofop-ethyl	<0.001	ppm (w/w)			
Schradan	<0.001	ppm (w/w)			
Simeconazole	<0.0002	ppm (w/w)			
Spinosyn a	<0.001	ppm (w/w)			
Spinosyn d	<0.001	ppm (w/w)			
Spiroclufen	<0.001	ppm (w/w)			
Spiromesifen	<0.001	ppm (w/w)			
Spirotetramat	<0.001	ppm (w/w)			
Spiroxamine	<0.001	ppm (w/w)			
Sulfentrazone	<0.001	ppm (w/w)			
TCMTB	<0.006	ppm (w/w)			
Tebufenozide	<0.001	ppm (w/w)			
Tebufenpyrad	<0.001	ppm (w/w)			
Tebupirimfos	<0.001	ppm (w/w)			
Tepraloxym	<0.001	ppm (w/w)			
Tetraconazole	<0.001	ppm (w/w)			
Thiabendazole	<0.002	ppm (w/w)			
Thiacloprid	<0.001	ppm (w/w)			
Thiamethoxam	<0.001	ppm (w/w)			
Thiazopyr	<0.001	ppm (w/w)			
Thiodicarb	<0.002	ppm (w/w)			
Thiofanox	<0.001	ppm (w/w)			
Thiofanox sulfone	<0.001	ppm (w/w)			
Thiofanox sulfoxide	<0.001	ppm (w/w)			
Thiophanate methyl	<0.005	ppm (w/w)			
Tolfenpyrad	<0.001	ppm (w/w)			
Tolyfluanid	<0.002	ppm (w/w)			
Tralkoxydim	<0.001	ppm (w/w)			
Triadimenol	<0.001	ppm (w/w)			

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106-8255 North Fraser Way, Burnaby, BC V3N 0B9  
Tel. 604-432-9311 Fax. 604-432-7768

COA No:	BRN-41211837-0
Supersedes:	None
COA Date	5/18/18
Page 96 of 96	

**TO:**

Mr. Jim Logie  
Assay Technician  
Burcon NutraScience (MB) Corp.  
1388 Waller Avenue  
Winnipeg, MB R3T 1P9

Received From:	Winnipeg, MB
Received Date:	5/8/18
P.O.# / ID:	426671
Location of Test: (except where noted) Burnaby, BC	

**Analytical Results**

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147926
<b>Desc. 2:</b>	YP40	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	D18-18A	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810NL		
<b>Desc. 5:</b>	112148		
<b>Desc. 6:</b>	250g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
Trichlorfon	<0.001	ppm (w/w)			
Tricyclazole	<0.003	ppm (w/w)			
Trietazine	<0.001	ppm (w/w)			
Trifloxysulfuron	<0.001	ppm (w/w)			
Triforine	<0.001	ppm (w/w)			
Trimethacarb	<0.001	ppm (w/w)			
Zinophos (thionazin)	<0.001	ppm (w/w)			
Zoxamide	<0.005	ppm (w/w)			
Carbendazim	<0.002	ppm (w/w)			

<b>Desc. 1:</b>	plant protein	<b>Laboratory ID:</b>	377147944
<b>Desc. 2:</b>	YP3640	<b>Condition Rec'd:</b>	NORMAL
<b>Desc. 3:</b>	PEAZAZZ	<b>Temp Rec'd (°C):</b>	23.2
<b>Desc. 4:</b>	YP810N		
<b>Desc. 5:</b>	112141		
<b>Desc. 6:</b>	30g		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u> <u>Loc.</u>
ICP MS Heavy Metals (4 analytes)			EPA 3050/6020 USP730 M-C043 / M-C032d		5/11/18
Arsenic	<0.01	ppm (w/w)			
Cadmium	0.001	ppm (w/w)			
Lead	0.02	ppm (w/w)			
Mercury	<0.005	ppm (w/w)			

(b) (6)

Walter Brandl

Laboratory Director

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Except as otherwise stated, Silliker, Inc. Terms and Conditions for Testing Services apply.

**From:** [Marc Sanchez, Esq.](#)  
**To:** [Bonnette, Richard](#)  
**Cc:** [Green, Valeria - FSIS](#)  
**Subject:** GRN 00804  
**Date:** Thursday, November 08, 2018 11:39:40 AM

---

Richard,

It has come to our attention that there were a few small errors, mostly related to units, in the [Tables in sections 5a\), 5b\), 7b\), 8a\) and 8b\)](#) of the Analyses section of the Peazazz/Peazac GRAS notice filing.

Please let me know how you would like me to handle this amendment.

### **[Sections 5a\) and 5b\)](#) – [Tables 14 and 15](#) - Mineral content (Peazazz and Peazac)**

- The units for [Tables 14](#) (page 12) and [15](#) (page 13) say “% w/w” but should be “% w/w d.b.”

### **[Section 7b\)](#) – [Table 19](#) – Mycotoxins (Peazac)**

- The units of [Table 19](#) (page 17) say “ppm w/w”, but should be “ppb w/w” (as in [Table 18 \(Mycotoxins Peazazz\)](#)) (e.g. see mycotoxin results for Peazac sample YP36-A18-17A YP810PA on Merieux CofA - page 206 of notice)

### **[Section 8a\)](#) – [Table 20](#) - Pesticides (Peazazz)**

- The units of [Table 20](#) (page 17) say “ppb w/w”, but should be “ppm w/w”. (as in [Table 21 \(Pesticides Peazac\)](#)) (e.g. see pesticide results for Peazazz sample YP38-L11-17A YP810NL on Merieux CofA – page 223 of notice)

### **[Section 8b\)](#) – [Table 21](#)- Pesticides (Peazac)**

- Like was done for Table 20, in Table 21 the parameters AMPA and Glyphosate should be marked with a single asterisk (\*), while the parameter “Other pesticide scan residues” should be marked with a double asterisk (\*\*) to correspond properly to the footnotes.

---

## Marc C. Sanchez, Esq.

Attorney & Regulatory Consultant  
Adjunct Professor, Northeastern Univ.



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**From:** [Marc Sanchez, Esq.](#)  
**To:** [Bonnette, Richard](#)  
**Subject:** Re: GRN 804 - Pea protein clarification request  
**Date:** Monday, February 04, 2019 4:13:54 PM  
**Attachments:** [image001.png](#)  
[GRN 804 Reply\\_02042019.pdf](#)

---

Hello Richard,

I hope you're well. Kindly find attached a reply to your request.

Best,

Marc

---

**Marc C. Sanchez, Esq.**

Attorney & Regulatory Consultant  
Adjunct Professor, Northeastern Univ.



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Member: Food and Drug Law Institute (**FDLI**) | Regulatory Affairs Professional Society (**RAPS**) | Natural Products Association (**NPA**)

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On Fri, Dec 21, 2018 at 11:20 AM Bonnette, Richard <[Richard.Bonnette@fda.hhs.gov](mailto:Richard.Bonnette@fda.hhs.gov)> wrote:

Good morning Marc,

Regarding the evaluation of the notice for GRN 804 (pea protein), the review team has a request regarding the presentation of the safety data in Part 6 (page 27) of the notice. We note that you've incorporated by reference the safety narrative from both GRN 581 and 608 into the current notice. However, the specific information incorporated from these notices

was not identified in sufficient detail. Please provide the relevant topics and page numbers from the specific sections of the safety narrative in GRN 581 and 608 that you wish to incorporate and provide a brief, general summary of these data.

If you have any questions, please let me know and I can set up a time to chat with the toxicologist on the team and myself, but I should mention that I'll be out of the office next week, returning (hopefully!) to work on January 2.

Regards,

Richard

**Richard E. Bonnette, M.S.**

Center for Food Safety and Applied Nutrition

Office of Food Additive Safety

U.S. Food and Drug Administration

Tel: 240-402-1235

[richard.bonnette@fda.hhs.gov](mailto:richard.bonnette@fda.hhs.gov)



February 4, 2019

*VIA E-MAIL ONLY*

Attention: Richard E. Bonnette, M.S.  
Center for Food Safety and Applied Nutrition  
Office of Food Additive Safety  
U.S. Food and Drug Administration

Re: FDA Clarification Request Regarding GRN 804

Mr. Bonnette,

Thank you for your e-mail of December 21, 2018. Below is a reply to your request.

*Incorporation of GRN 608*

The notice incorporates Section 2.4, beginning on page 4, which confirms the notified substance in both notices is the same.

The notice incorporates Section 3.2 beginning on page 12, which indicates the intended food uses and proposed use levels of the notified substance of GRN 608. It should be noted that in general terms these proposed use levels (0.96-34.3%) are very similar to the proposed use levels identified for the notified substance in GRN 804 (1-35%).

The notice incorporates all of Section 4 beginning on page 15 which includes a number of topics including the common knowledge of safe use of pea protein, discussion of nutritional value and data on the safety of pea protein. Section 4.1. includes a summary of the history of human consumption of peas dating back to the Neolithic period, documents the scope and scale of U.S. production of peas, and discusses more current data for the consumption of peas. The section concludes with the statement “The available information demonstrates that there is common knowledge that human beings are regularly exposed to peas and the protein present in it without any safety concerns.” The additional explanation in subsections 4.2, 4.3, 4.4 is incorporated to confirm the beneficial aspects of consuming the notified substance. Section 4.5 describes mean (56-104 g/day) and 90<sup>th</sup> percentile (76-142 g/day) adult protein intakes and a suggested safe maximum daily protein intake of approximately 176 grams for an 80 kg individual on a 2867 kcal/day diet. The proposed levels of use for the notified substance of GRN 804 would result in exposure levels below or just within the mean level for total protein exposure and well below the suggested maximum. Section 4.6, which explores relevant literature on safety including traditional toxicological concerns, is incorporated to demonstrate the safety of consumption of pea protein with the exposure estimates proposed in GRN 804 supported by scientific literature and that allergenicity is quite rare.

The notice incorporates Section 5 on page 23, Section 6 on page 26, and Section 7 on page 27 for the same purpose as above. Namely, to demonstrate the usage and exposure estimates proposed in GRN 804 are supported by the scientific literature.

*Incorporation of GRN 581*

The notice incorporates Section III.A, beginning on page 5, which confirms the notified substance in both notices is the same.

The notice incorporates Section V, page 22, which identifies and discusses the use of pea protein as a protein replacement in processed foods.

The notice incorporates all of Section VI beginning on page 23 which explores relevant literature in both human and animal studies on safety including traditional toxicological concerns, and is incorporated to demonstrate the safety of consumption of pea protein with the exposure estimates proposed in GRN 804 supported by scientific literature and that allergenicity is quite rare.

The notice incorporates Section VII on page 33, Section VIII on page 35 and the May 14, 2015 expert review for the same purpose as above. Namely, to demonstrate the usage and exposure estimates proposed in GRN 804 are supported by the scientific literature.

Please feel free to contact me with any questions.

Kind Regards,



Marc C. Sanchez, Esq.  
Regulatory Counsel  
Burcon NutraScience  
Ph.202.765.4491

Email: [msanchez@fdaatty.com](mailto:msanchez@fdaatty.com)

February 4, 2019

*VIA E-MAIL ONLY*

Attention: Richard E. Bonnette, M.S.  
Center for Food Safety and Applied Nutrition  
Office of Food Additive Safety  
U.S. Food and Drug Administration

Re: FDA Clarification Request Regarding GRN 804

Mr. Bonnette,

Thank you for your e-mail of December 21, 2018. Below is a reply to your request.

*Incorporation of GRN 608*

The notice incorporates Section 2.4, beginning on page 4, which confirms the notified substance in both notices is the same.

The notice incorporates Section 3.2 beginning on page 12, which indicates the intended food uses and proposed use levels of the notified substance of GRN 608. It should be noted that in general terms these proposed use levels (0.96-34.3%) are very similar to the proposed use levels identified for the notified substance in GRN 804 (1-35%).

The notice incorporates all of Section 4 beginning on page 15 which includes a number of topics including the common knowledge of safe use of pea protein, discussion of nutritional value and data on the safety of pea protein. Section 4.1. includes a summary of the history of human consumption of peas dating back to the Neolithic period, documents the scope and scale of U.S. production of peas, and discusses more current data for the consumption of peas. The section concludes with the statement “The available information demonstrates that there is common knowledge that human beings are regularly exposed to peas and the protein present in it without any safety concerns.” The additional explanation in subsections 4.2, 4.3, 4.4 is incorporated to confirm the beneficial aspects of consuming the notified substance. Section 4.5 describes mean (56-104 g/day) and 90<sup>th</sup> percentile (76-142 g/day) adult protein intakes and a suggested safe maximum daily protein intake of approximately 176 grams for an 80 kg individual on a 2867 kcal/day diet. The proposed levels of use for the notified substance of GRN 804 would result in exposure levels below or just within the mean level for total protein exposure and well below the suggested maximum. Section 4.6, which explores relevant literature on safety including traditional toxicological concerns, is incorporated to demonstrate the safety of consumption of pea protein with the exposure estimates proposed in GRN 804 supported by scientific literature and that allergenicity is quite rare.

The notice incorporates Section 5 on page 23, Section 6 on page 26, and Section 7 on page 27 for the same purpose as above. Namely, to demonstrate the usage and exposure estimates proposed in GRN 804 are supported by the scientific literature.

*Incorporation of GRN 581*

The notice incorporates Section III.A, beginning on page 5, which confirms the notified substance in both notices is the same.

The notice incorporates Section V, page 22, which identifies and discusses the use of pea protein as a protein replacement in processed foods.

The notice incorporates all of Section VI beginning on page 23 which explores relevant literature in both human and animal studies on safety including traditional toxicological concerns, and is incorporated to demonstrate the safety of consumption of pea protein with the exposure estimates proposed in GRN 804 supported by scientific literature and that allergenicity is quite rare.

The notice incorporates Section VII on page 33, Section VIII on page 35 and the May 14, 2015 expert review for the same purpose as above. Namely, to demonstrate the usage and exposure estimates proposed in GRN 804 are supported by the scientific literature.

Please feel free to contact me with any questions.



Digitally signed by Marc  
C. Sanchez, Esq.  
Date: 2019.02.04  
16:10:41 -05'00'  
Adobe Acrobat Reader  
version: 2019.010.20069

Kind Regards,

(b) (6)

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