DISTRICT ADDRESS AND PHON		ALTH AND HUMAN		
	NE NUMBER	KUG ADMINISTRATIC	DATE(S) OF INSPECTION	-
Philadelphia (215)597-4390	Ext:4200 Fax: (215) 597-0875	;	3/21/2022-4/26/2022 FEI NUMBER 3010680515	*
ORAPHARM1_RE	SPONSES@fda.hhs.gov			
NAME AND TITLE OF INDIVIDU Kyle Y. Flan	AL TO WHOM REPORT ISSUED	I		
FIRM NAME	Igan, CEO	STREET ADDRESS		
US Specialty	Formulations LLC	1401 S Al	CARGAD AND AND A CARGADIN	
Allentown, P.		TYPE ESTABLISHMENT Outsourci	ng Facility	
observations, and do observation, or have action with the FDA	observations made by the FDA representative on ot represent a final Agency determination re implemented, or plan to implement, corrective representative(s) during the inspection or su intact FDA at the phone number and address a	egarding your comp ve action in respons bmit this information	pliance. If you have an objection se to an observation, you may dis	regarding an cuss the objection or
OBSERVATION Aseptic process	CTION OF YOUR FIRM WE OBSERVED: ON 1 sing areas are deficient regarding a ïlters under positive pressure.	air supply that	is filtered through high-o	efficiency
safety cabin open stoppo (b) (4) a.The do used	tic vial filling and sealing operation net BSC- ⁽¹⁾⁽⁴⁾ obstruct first pass HEI ers. During the (b) (4) aseptic fillion on 04/05/2022 we observed: esign of youn(b) (4) filling equip	PA filtered air ing of 95% Eth	in the critical zones over anol for Injection, Lot N	open vials and
proy	as a filling nozzle grasped by the nician's fingers to obstruct first pa kimity (within 5 cm) above open v vials	e technician du ass HEPA filte	ring operation, causes th red air when positioned	e filling in close
prov into b.Durin BSC the s	nician's fingers to obstruct first pa	e technician du ass HEPA filte vials as necessa on, performed s ement of trays open pouch of	ring operation, causes th red air when positioned ary to direct the flow of th imultaneously with vial to of filled vials from the fi	e filling in close he drug product filling within the illing station to
prov into b.Durin BSC the s pass	nician's fingers to obstruct first pa simity (within 5 cm) above open v vials. g the (b) (4) vial sealing operatio ^{(b) (4)} by a second technician, move sealing station is directly over the	e technician du ass HEPA filte vials as necessa on, performed s ement of trays open pouch of sed stoppers.	ring operation, causes the red air when positioned ary to direct the flow of the simultaneously with vial to of filled vials from the find the find the find	e filling in close he drug product filling within the illing station to ostructing first
prov into b.Durin BSC the s pass	nician's fingers to obstruct first pa simity (within 5 cm) above open v vials. g the (b) (4) vial sealing operatio (b) (4) vial sealing operatio (b) (4) vial sealing operation (c) (4) by a second technician, move sealing station is directly over the s HEPA filtered air over the exposed ted areas were not certified under o	e technician du ass HEPA filte vials as necessa on, performed s ement of trays open pouch of sed stoppers.	ring operation, causes the red air when positioned ary to direct the flow of the simultaneously with vial to of filled vials from the find the find the find	e filling in close he drug product filling within the illing station to ostructing first
prov into b.Durin BSC the s pass	nician's fingers to obstruct first pa simity (within 5 cm) above open v vials. g the (b) (4) vial sealing operatio (b) (4) vial sealing operatio (b) (4) vial sealing operation (c) (4) by a second technician, move sealing station is directly over the s HEPA filtered air over the exposed ted areas were not certified under o	e technician du ass HEPA filte vials as necessa on, performed s ement of trays open pouch of sed stoppers. dynamic condu ENDMENT 1	ring operation, causes the red air when positioned ary to direct the flow of the simultaneously with vial to of filled vials from the find the find the find	e filling in close he drug product filling within the illing station to ostructing first

State Contractor	OF HEALTH AND HUM		
DISTRICT ADDRESS AND PHONE NUMBER US Customhouse Rm900 200 Chestnut St Philadelphia, PA 19106 (215)597-4390 Ext:4200 Fax:(215)597- ORAPHARM1_RESPONSES@fda.hhs.gov		DATE(S) OF INSPECTION 3/21/2022-4/26/2022* FEI NUMBER 3010680515	
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Kyle Y. Flanigan, CEO			
FIRM NAME US Specialty Formulations LLC	STREET ADDRESS	Albert St	
CITY, STATE, ZIP CODE, COUNTRY Allentown, PA 18103-4141	TYPE ESTABLISHM Outsourd	ent inspected cing Facility	
verified under operational conditions in t product vials, (b) (4) of drug biological safety cabinet BSC- ^{(b) (4)} Your a individual moving a mass (calibration we BSC- ^{(b) (4)} while "smoke" is introduced to airflow patterns in BSC ^{(b) (4)} under dynam components routinely used in the produc Chromic Chloride 30 mL for injection an a written report stating your conclusions unit.	g product vials, an airflow pattern stu eight) on and off visualize the airfl nic conditions that ction of aseptically nd Ethanol for Inj	d aseptic connections perfor udy video from 08/26/2021 a bench top balance position ow patterns created. You fa t include set up of all the equ y filled drug products B-Con jection 95%. Furthermore, y	rmed in shows an ned within the iled to evaluate upment and mplex + ou do not have
OBSERVATION 2 Procedures designed to prevent microbiologi are not established and followed.	ical contaminatio	n of drug products purport in	ng to be sterile
Specifically: During our observation of (b) (4) aseptic fil (b) (4) on 04/05/2022 we observed ob of finished drug product:			
1. The filling technician working within the I used as a filling nozzle on nonsterile clear passing the tray of filled vials to the seal	an room wipes wl	nen filling is paused for action	ons including
2. The filling technician working within the I (b) (4) with (b) (4) and handle technician donned in non-sterile exam gl	ed in the IS <mark>O 7</mark> cla	eives vials and stoppers in v assified Room ^{(b) (4)} by the su	
	AMENDMENT 1		
SEE REVERSE OF THIS PAGE BARGE Edmund F Mrak, Investi Lori M Newman, Investi John R Tuohig, Investi	gator	Edmand F Max Invest day 6 greet 87: Edmand F. Max Jr-6 Date Synet 8 -35-3022 X	DATE ISSUED 4/26/2022
FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE	INSPECTIONAL	OBSERVATIONS	PAGE 2 of 16 PAGES

		ALTH AND HUM RUG ADMINISTRA		
DISTRICT ADDRESS AND PHO			DATE(S) OF INSPECTION 3/21/2022-4/26/2022	2*
Philadelphia	, PA 19106		FEI NUMBER	Lan 20
215) 597-4390	Ext:4200 Fax:(215)597-0875	5	3010680515	
ORAPHARM1_RE	SPONSES@fda.hhs.gov			
NAME AND TITLE OF INDIVIDU	AL TO WHOM REPORT ISSUED			
Kyle Y. Flan	igan, CEO			
FIRM NAME US Specialty	Formulations LLC	STREET ADDRESS	Albert St	
CITY, STATE, ZIP CODE, COUN	лкү	TYPE ESTABLISH		
Allentown, P.	A 18103-4141	Outsour	cing Facility	
stern the f b.Vials Roo table (b) fillin with c.The fi	(4) pouches on the table locate (a) by the support technic filling technician working within are unwrapped to the last layer of $(b)^{(4)}$ by the support technician e located in the ISO 7 classified R (4) by the support technician do ng technician working within the $(b)^{(4)}$ vial filling. lling technician touched the BSC	ician donned the ISO 5 BS wrapping ma donned in no coom ^{(b) (4)} . Th onned in non ISO 5 BSC- ^(b)	in non-sterile exam glove C-02. aterial and handled in the n-sterile exam gloves the ne vial wrapping is (b) (4 -sterile exam gloves and 1 who then unwraps the v	es and handed to ISO 7 classified n rested on the) with sterile handed to the vials and proceed
duri 3.Technicians p after contact operations a.The se proc (b) tech b.While (b) (b) alon c.The se	ing pauses in filling then proceeded performing operations within the I cting surfaces of equipment or con- within the ISO 5 classified BSC ^(b) ealing technician handled spray be duct) outside of BSC- ^{(b)(4)} while in second second (4) ^{(b)(6)} returned to capping and second second mician without donning new steril is in sterile garb the sealing technic (4) in the ISO 7 classified Room	the benchtored to $(b) (4)$ SO 5 classification ponents out (4) ottles of (b) sterile garb and sealing vials le gloves firs ian $(b) (4)$ then p (b) proceeded ut donning not from ISO 7 c	p, and ^{(b) (6)} rested ^{(b) (6)} wrist fill vials. (ed BSC ^{(b) (4)} do not change side the ISO 5 zone befor (4) and bottles of 95% H and then after (b) (4) inside BSC ^{(0) (4)} alongside t. (b) (4) crimping mach assed the machine into BS d to cap and seal vials ins ew sterile gloves first. classified Room ^{(b) (4)} to IS	ts on the benchto e their gloves e returning to Ethanol (bulk with steril the filling hine with sterile SC ^{(D) (4)} and after ide BSC- ^{(D) (4)}
duri 3.Technicians p after contact operations a.The se proc (b) tech b.While (b) (b) alon c.The se	ng pauses in filling then proceeder performing operations within the I cting surfaces of equipment or cor- within the ISO 5 classified BSC ⁽⁶⁾ ealing technician handled spray be duct) outside of BSC- ⁽⁶⁾⁽⁴⁾ while in second (4) ⁽⁶⁾⁽⁶⁾ returned to capping and second inician without donning new sterifier in sterile garb the sealing technic (4) in the ISO 7 classified Room (4) with sterile (b) (4) agside the filling technician witho ealing technician opened the door by hand on the door handle	the benchtored to $(b) (4)$ SO 5 classification ponents out (4) ottles of (b) sterile garb and sealing vials le gloves firs ian $(b) (4)$ then p (b) proceeded ut donning not from ISO 7 c	p, and ^{(b) (6)} rested ^{(b) (6)} wrist fill vials. (ed BSC ^{(b) (4)} do not change side the ISO 5 zone befor (4) and bottles of 95% H and then after (b) (4) inside BSC ^{(0) (4)} alongside t. (b) (4) crimping mach assed the machine into BS d to cap and seal vials ins ew sterile gloves first. classified Room ^{(b) (4)} to IS	ts on the benchto e their gloves e returning to Ethanol (bulk with steril the filling hine with sterile SC ^{(D) (4)} and after ide BSC- ^{D)(4)}
duri 3.Technicians p after contact operations a.The se proc (b) tech b.While (b) (b) alon c.The se	ng pauses in filling then proceeder performing operations within the I cting surfaces of equipment or con- within the ISO 5 classified BSC ^(b) ealing technician handled spray be duct) outside of BSC- ^{(b)(4)} while in second (4) ^{(b)(6)} returned to capping and second in sterile garb the sealing technic (4) in the ISO 7 classified Room (4) with sterile (b) (4) mgside the filling technician witho ealing technician opened the door om ^{(b)(4)} by hand on the door handle AM	the benchtored to $(b) (4)$ as to $(b) (4)$ as 50 5 classification of the solution of the sol	p, and ^{(b) (6)} rested ^{(b) (6)} wrist fill vials. (ed BSC ^{(b) (4)} do not change side the ISO 5 zone befor (4) and bottles of 95% H and then after (b) (4) inside BSC ^{(0) (4)} alongside t. (b) (4) crimping mach assed the machine into BS d to cap and seal vials ins ew sterile gloves first. classified Room ^{(b) (4)} to IS	ts on the benchto e their gloves e returning to Ethanol (bulk with steri the filling hine with sterile SC ^{(D) (4)} and after ide BSC- ^{DIM} SO 8 classified ss through and
duri 3.Technicians p after contact operations a.The se proc (b) tech b.While (b) (b) alon c.The se	ng pauses in filling then proceeder performing operations within the I cting surfaces of equipment or cor- within the ISO 5 classified BSC ⁽⁶⁾ ealing technician handled spray be duct) outside of BSC- ⁽⁶⁾⁽⁴⁾ while in second (4) ⁽⁶⁾⁽⁶⁾ returned to capping and second inician without donning new sterifier in sterile garb the sealing technic (4) in the ISO 7 classified Room (4) with sterile (b) (4) agside the filling technician witho ealing technician opened the door by hand on the door handle	the benchtored to $(b) (4)$ (SO 5 classifing ponents out (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	p, and ^{(b) (6)} rested ^{(b) (6)} wrist fill vials. (ed BSC ^{(b) (4)} do not change side the ISO 5 zone befor (4) and bottles of 95% H and then after (b) (4) inside BSC ^{(0) (4)} alongside t. (b) (4) crimping mach assed the machine into BS d to cap and seal vials ins ew sterile gloves first. classified Room ^{(b) (4)} to IS	ts on the benchto e their gloves e returning to Ethanol (bulk with steri the filling hine with sterile SC ^{(D) (4)} and after ide BSC- ^{DIM}
duri 3.Technicians p after contact operations a.The se prod (b) tech b.While (b) (b) alon c.The se Roo	ng pauses in filling then proceeder performing operations within the I cting surfaces of equipment or con- within the ISO 5 classified BSC ^(b) ealing technician handled spray be duct) outside of BSC- ^{(b)(4)} while in second (4) ^{(b)(6)} returned to capping and second mician without donning new steril in sterile garb the sealing technic (4) in the ISO 7 classified Room (4) with sterile (b) (4) mgside the filling technician witho ealing technician opened the door om ^{(b)(4)} by hand on the door handle AM	the benchtored to (b) (4) SO 5 classification ponents out (4) ottles of (b) sterile garb and sealing vials le gloves firstian (b) (4) to m ^{(b) (4)} then p (b) proceeded ut donning ne from ISO 7 co e to allow the ENDMENT 1	p, and ^{(b) (6)} rested ^{(b) (6)} wrist fill vials. (ed BSC ^{(b) (4)} do not change side the ISO 5 zone befor (4) and bottles of 95% I ad then after (b) (4) inside BSC ^{(b) (4)} alongside t. (b) (4) crimping mach assed the machine into BS d to cap and seal vials insi- ew sterile gloves first. classified Room ^{(b) (4)} to IS e support technician to pa	ts on the benchto e their gloves e returning to Ethanol (bulk with steri the filling hine with sterile SC ^{(b) (4)} and after ide BSC- ^{0) (4)} 3O 8 classified ss through and 4/26/2022
duri 3.Technicians p after contact operations a.The se prod (b) tech b.While (b) (b) alon c.The se Roo	ng pauses in filling then proceeder performing operations within the I cting surfaces of equipment or con- within the ISO 5 classified BSC ^(b) ealing technician handled spray be duct) outside of BSC- ^{(b)(f)} while in second (4) ^{(b)(f)} returned to capping and second inician without domning new sterif in sterile garb the sealing technic (4) in the ISO 7 classified Room (4) with sterile (b) (4) agside the filling technician witho ealing technician opened the door by hand on the door handle AM	the benchtored to (b) (4) SO 5 classification ponents out (4) ottles of (b) sterile garb and sealing vials le gloves firstian (b) (4) to m ^{(b) (4)} then p (b) proceeded ut donning ne from ISO 7 co e to allow the ENDMENT 1	p, and ^{(b) (6)} rested ^{(b) (6)} wrist fill vials. (ed BSC ^{(b) (4)} do not change side the ISO 5 zone befor (4) and bottles of 95% H and then after (b) (4) inside BSC ^{(0) (4)} alongside t. (b) (4) crimping mach assed the machine into BS d to cap and seal vials ins ew sterile gloves first. classified Room ^{(b) (4)} to IS	ts on the benchto e their gloves e returning to Ethanol (bulk with steri the filling hine with sterile SC ^{(b) (4)} and after ide BSC- ^{0) (4)} 3O 8 classified ss through and 4/26/2022
duri 3.Technicians p after contac operations a.The se prod (b) tech b.While (b) (b) alon c.The se Roo	ng pauses in filling then proceeder performing operations within the I cting surfaces of equipment or con- within the ISO 5 classified BSC ^(b) ealing technician handled spray be duct) outside of BSC- ^{(b)(4)} while in second (4) ^{(b)(6)} returned to capping and second mician without donning new steril in sterile garb the sealing technic (4) in the ISO 7 classified Room (4) with sterile (b) (4) mgside the filling technician witho ealing technician opened the door om ^{(b)(4)} by hand on the door handle AM	the benchtored to (b) (4) SO 5 classification ponents out (4) ottles of (b) sterile garb and sealing vials le gloves firstian (b) (4) to m ^{(b) (4)} then p (b) proceeded ut donning ne from ISO 7 co e to allow the ENDMENT 1	p, and ^{(b) (6)} rested ^{(b) (6)} wrist fill vials. (ed BSC ^{(b) (4)} do not change side the ISO 5 zone befor (4) and bottles of 95% H ad then after (b) (4) inside BSC ^{(b) (4)} alongside t. he(b) (4) crimping mach assed the machine into BS d to cap and seal vials ins ew sterile gloves first. elassified Room ^{(b) (4)} to IS e support technician to pa	ts on the benchto e their gloves e returning to Ethanol (bulk with steri the filling hine with sterile SC ^{(b) (4)} and after ide BSC- ^{(b) (4)} and after ide BSC- ^{(b) (4)} 30 8 classified ss through and

ă.		TH AND HUMAN SERVICE GADMINISTRATION	ES	
DISTRICT ADDRESS AND PHON		DATE(S) OF INS	PECTION 022-4/26/2022*	
Philadelphia,		FEI NUMBER 301068		
	SPONSES@fda.hhs.gov			
NAME AND TITLE OF INDIVIDUA	L TO WHOM REPORT ISSUED			
Kyle Y. Flan: FIRM NAME	igan, CEO	STREET ADDRESS		
US Specialty	Formulations LLC	1401 S Albert S	t	
CITY, STATE, ZIP CODE, COUNT Allentown, PA		TYPE ESTABLISHMENT INSPECTED Outsourcing Fac.	ility	
	after(b) (4) with sterile seal vials alongside the filling techn	e (b) (4) returned t ician without donni		
OBSERVATIO	DN 3			
The second se	ing areas are deficient regarding the	system for cleaning	and disinfecting	the room to
produce aseptic	conditions.			
Specifically:				
	on 04/05/2022 we observed that y			
classified B	SC- ^{(b)(4)} for purposes to include:	ou use nonsterne cie	an room wipes ins	lue life 130 5
a.Sanitiz	cation of BSC ⁽⁰⁾⁽⁴⁾ surfaces with steri			
	g the filling tubing and barbed fittir es when filling is paused.	ig used as a filling no	ozzle on nonsterile	e clean room
	and a second s	(b) (4) the filling s	system.	
10 V				
	re SOP # PR-0040 Cleaning of Cla			
a chailtean ann an Staine an Staine an	/2021 does not allow sufficient disinvels of disinfection of the ceiling pa) contact time to a ht fixtures and HI	
diffusers. T	he procedure foi(b) (4) room cle	aning, including for	the ISO 7 classifie	
	/filling room ^{(D) (4)} , instructs personn	el to spray these sur	faces with(b) (4)	then "wipe
immediately	· ·			
	t citation from the previous FDA d the Warning Letter dated: 09/30		ons issued on 05/2	29/2015 and
OBSERVATIO)N 4			
Les de la la completencia de la completencia de	ing areas are deficient regarding the	system for monitor	ing environmental	conditions.
	AMEN	DMENT 1		
	EMPLOYEE(S) SIGNATURE Edmund F Mrak, Investigator		1	DATE ISSUED 4/26/2022
SEE REVERSE OF THIS PAGE	Lori M Newman, Investigator		Edmund F Mrak Invest gafor S gned By: Edmund F. Mrak Jr -6 Date Signet 0 -36-3022	4/20/2022
	John R Tuohig, Investigator		X Date Signed 0 - 26-2022 13:05:35	
-				
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INS	PECTIONAL OBSERVATI	ONS	PAGE 4 of 16 PAGES

DEPARTMENT OF HEAL FOOD AND DRU	TH AND HUMA		
DISTRET ADDRESS AND PHONE NUMBER US Customhouse Rm900 200 Chestnut St Philadelphia, PA 19106 (215)597-4390 Ext:4200 Fax:(215)597-0875 ORAPHARM1_RESPONSES@fda.hhs.gov		DATE(S) OF INSPECTION 3/21/2022-4/26/2022* FEI NUMBER 3010680515	
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Kyle Y. Flanigan, CEO			
FIRM NAME US Specialty Formulations LLC	STREET ADDRESS	lbert St	
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHME	NT INSPECTED	
Allentown, PA 18103-4141	Outsourc	ing Facility	
 Specifically: Your surface and airborne viable monitoring progr conducted to provide meaningful data to support the 1. You have not established scientific justification of limits set within your ISO 5 environment. You your procedure SOP # PR-0041 Environmenta action level⁽⁰⁾⁽⁴⁾ CFU) written in the Test Repor- within the critical zone of the ISO 5 classified recoveries of 1 CFU (colony forming unit) with a. You did not investigate recovery of 1 CFU personnel sample of the filling technici- aseptic filling of B-Complex + Chromic Expiration Date: 09/30/2022, and the b b. You did not investigate recovery of 1 CFF sample of the filling technician's glove of Sarracenia Purpurea 0.17 g/ml for in 02/28/2023, and the batch was released 2. During our observation of manual aseptic filling Number: (b) (4) on 04/05/2022, we obse monitoring samples immediately following the representative of the filling operation since tect sampling: a. Cleanup from production, (b) (4) time. 	he quality of for the envir r response to 1 Monitoring rt permits per biological sa hout investig U <i>Priestia a</i> an's gloved c Chloride 3 atch was rel U <i>Bacillus s</i> d right hand jection, Lot on 09/28/20 operations f rved that teo end of fillin	your drug products intend onmental and personnel m o the action level ^{(b)(4)} CFU) p g Program, Effective Date: ersonnel, surface, and air s afety cabinet BSC ^{(b)(4)} to yie gation. For example: <i>ryabhattai / megaterium</i> fr left hand (fingers) followin 0 mL for injection, Lot # eased on 10/26/2021. <i>ubtilis / mojavensis</i> from t (fingers) following (b) (4 # (b) (4) , Expiration 021. For 95% Ethanol for Injecti chnicians did not collect pe ng. Personnel monitoring w	ed to be sterile. onitoring action provided in 08/06/2021 and amples from eld microbial com the ng(b) (4) (b) (4) , he personnel a septic filling Date: on, Lot resonnel vas not ities before
AMEN	IDMENT 1		
SEE REVERSE OF THIS PAGE John R Tuohig, Investigator		Edmund F Mrak Invest gabr S gred By: Edmund F. Mrak Jr-6 Deprese 0 -36-3022 X	date issued 4/26/2022
FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE IN	SPECTIONAL C	DBSERVATIONS	PAGE 5 of 16 PAGES

	DEPARTMENT OF HEAI FOOD AND DRU	TH AND HUMA		
DISTRICT ADDRESS AND PHON			DATE(S) OF INSPECTION 3/21/2022-4/26/2022	2*
Philadelphia (215)597-4390			S/21/2022-4/20/2022 FEI NUMBER 3010680515	
NAME AND TITLE OF INDIVIDUA				
Kyle Y. Flan: FIRM NAME	igan, CEO	STREET ADDRESS		
US Specialty	Formulations LLC	1401 S AL		
Allentown, Pi		Comproversity and a comproversity of	ing Facility	
steri c. The fi ente Furt 3.You do not m manual filli for injection	of post-batch environmental moni le(b) (4) during this time. lling technician and sealing/suppor ring BSC ^{(b) (4)} to collect personnel sa hermore, (b) (4)) (4) was visible conitor airborne particulates to ISO ng operations for aseptically filled and Ethanol for Injection 95%.	t technician b amples (Fing on the sealir 5 air classifi	both donned new sterile gers and wrists of both ha ng technician's hands du cations in all critical loca	ands). rring sampling. ations througho c Chloride 30 m
08/06/2021 safety cabir				
08/06/2021 safety cabin OBSERVATIO Procedures des: did not include Specifically: 1.An appropria	, airborne particulate monitoring of net BSC ⁽⁵⁾⁽⁴⁾ is conducted " (ON 5 igned to prevent microbiological co validation of the sterilization proce	filling opera o) (4) ntamination ss. ncluded with	of drug products purpor	fied biological rting to be sterile intended for
08/06/2021 safety cabin OBSERVATIO Procedures des: did not include Specifically: 1.An appropria terminal ste 06/22/2021 (b) (4)	, airborne particulate monitoring of net BSC ⁽⁵⁾⁽⁴⁾ is conducted " (ON 5 igned to prevent microbiological co validation of the sterilization proce	filling opera o) (4) ntamination ss. ncluded with Q-0003 (b) nly the ducts Medro	of drug products purpor each drug product load (4) Operation, Effec (b) (4) in (b) (4)	fied biological eting to be sterile intended for tive Date:) and
08/06/2021 safety cabin OBSERVATIO Procedures dest did not include Specifically: 1.An appropria terminal ste 06/22/2021 (b) (4) injection an 2.You have not for load pat and the filli	, airborne particulate monitoring of het BSC ^{(b)(4)} is conducted " (DN 5 igned to prevent microbiological co validation of the sterilization proce te sterilization load monitor is not in rilization. Your procedure SOP # E requires use of a (b) (4) for o for terminally sterilized drug pro	filling opera o) (4) entamination ss. hcluded with Q-0003 (b) nly the ducts Medro r injection. (receive otic filling of	of drug products purpor each drug products purpor (4) Operation, Effect (b) (4) in (b) (4) oxyprogesterone Acetate in (b) (4) and re drug products B-Comp	fied biological ting to be sterile intended for tive Date: and 150 mg/ml for d (b) (4) eady to sterilize) lex + Chromic
08/06/2021 safety cabin OBSERVATIO Procedures dest did not include Specifically: 1.An appropria terminal ste 06/22/2021 (b) (4) injection an 2.You have not for load pat and the filli	airborne particulate monitoring of het BSC ⁽⁵⁾⁽⁴⁾ is conducted " (DN 5 igned to prevent microbiological convalidation of the sterilization proce te sterilization load monitor is not in rilization. Your procedure SOP # E requires use of a (b) (4) for o for terminally sterilized drug prod d Sarracenia Purpurea 0.17 g/ml for adequately validated the (b) (4) terns (b) (4) containing (b) (4) ng tubing sets used for (b) (4) asep mL for injection and Ethanol for I	filling opera o) (4) entamination ss. hcluded with Q-0003 (b) nly the ducts Medro r injection. (receive otic filling of	of drug products purpor each drug products purpor (4) Operation, Effect (b) (4) in (b) (4) oxyprogesterone Acetate in (b) (4) and re drug products B-Comp	fied biological ting to be sterile intended for tive Date: and 150 mg/ml for d (b) (4) eady to sterilize) lex + Chromic
08/06/2021 safety cabin OBSERVATIO Procedures dest did not include Specifically: 1.An appropria terminal ste 06/22/2021 (b) (4) injection an 2.You have not for load pat and the filli	airborne particulate monitoring of het BSC ⁽⁵⁾⁽⁴⁾ is conducted " (DN 5 igned to prevent microbiological convalidation of the sterilization proce te sterilization load monitor is not in rilization. Your procedure SOP # E requires use of a (b) (4) for o for terminally sterilized drug prod d Sarracenia Purpurea 0.17 g/ml for adequately validated the (b) (4) terns (b) (4) containing (b) (4) ng tubing sets used for (b) (4) asep mL for injection and Ethanol for I	filling opera o) (4) entamination ss. hcluded with Q-0003 (b) nly the ducts Medro r injection. (receive btic filling of njection 95%	of drug products purpor each drug products purpor (4) Operation, Effect (b) (4) in (b) (4) oxyprogesterone Acetate in (b) (4) and re drug products B-Comp	fied biological fintended for tive Date: and 150 mg/ml for d(b) (4) eady to sterilize) lex + Chromic ed drug products

		ALTH AND HUMAN SERVICI RUG ADMINISTRATION	ES	
Philadelphia (215)597-4390	se Rm900 200 Chestnut St	FEI NUMBER	022-4/26/2022*	
NAME AND TITLE OF INDIVIDU Kyle Y. Flan				
FIRM NAME		STREET ADDRESS		
CITY, STATE, ZIP CODE, COUN	Formulations LLC	1401 S Albert S TYPE ESTABLISHMENT INSPECTED	t	
Allentown, P.	A 18103-4141	Outsourcing Fac	ility	
(b) (4) ase (b) (4) (b) (4) plates, sock 3.You do not have verification	pperations and the interior drug pr ptic filling of drug products. Your Validation for (b) (4) and S reported that the validation (b) rets, chain and pliers, and beam cla ave a written procedure for prepar t. We observed that vials containin (4) volume is not specified and con	SOP # EQ-0062, EQ- OP # EQ-0053, EQ-00 (4) contained items s amps. ing (b) (4) for (l_{ng} (b) (4) ampule	0062 (b) (4) 053 (b) (4) Validation for ouch as wrenches, door close (b) (4) s had different volumes of	or er
	t least two unsealed loose ceiling t houses the ISO 5 classified biolog		U	
	was observed above and adjacen			
2. There were lo (b) (4) c change con performed of		t to the ISO 5 classified nree out(b) (4) HEPA F ne air volume and velo ertified during the last an room suite includes	d biological safety cabinet E filter/Fan units servicing you city delivered from each un (b) (4) clean room certifica the ISO 7 classified	BSC- ur it an
2. There were lo (b) (4) c change con performed o formulation	was observed above and adjacent oose and dislocated prefilters on the lean room suite that may affect the ditions including the air balance c on 08/26/2021. The (b) (4) cle	t to the ISO 5 classified nree out(b) (4) HEPA F ne air volume and velo ertified during the last an room suite includes lassified biological saf	d biological safety cabinet E Filter/Fan units servicing you city delivered from each un (b) (4) clean room certifica the ISO 7 classified Fety cabinet BSC ^{(b) (4)}	ur it an ition
2. There were lo (b) (4) c change con performed o formulation	was observed above and adjacent oose and dislocated prefilters on the lean room suite that may affect the ditions including the air balance c on 08/26/2021. The (b) (4) cle n/filling room ^{(b) (4)} and the ISO 5 c umerous roof leaks in the facility of	t to the ISO 5 classified nree out(b) (4) HEPA F ne air volume and velo ertified during the last an room suite includes lassified biological saf	d biological safety cabinet E Filter/Fan units servicing you city delivered from each un (b) (4) clean room certifica the ISO 7 classified Fety cabinet BSC ^{(b) (4)}	ur it an ition
2.There were lo (b) (4) change con performed of formulation	was observed above and adjacent oose and dislocated prefilters on the lean room suite that may affect the ditions including the air balance c on 08/26/2021. The (b) (4) cle n/filling room ^{(b) (4)} and the ISO 5 c umerous roof leaks in the facility of	t to the ISO 5 classified aree out(b) (4) HEPA F he air volume and velo ertified during the last an room suite includes lassified biological saf evidenced by collectio ENDMENT 1	d biological safety cabinet E Filter/Fan units servicing you city delivered from each un (b) (4) clean room certifica the ISO 7 classified Fety cabinet BSC ^{(b) (4)}	ur it an tion

	DEPARTMENT OF HEAL FOOD AND DRUG			
Philadelphia, (215)597-4390 1	e Rm900 200 Chestnut St		DATE(S) OF INSPECTION 3/21/2022-4/26/2022* FEI NUMBER 3010680515	
NAME AND TITLE OF INDIVIDUAL T Kyle Y. Flanig				
FIRM NAME US Specialty F	Formulations LLC	STREET ADDRESS	lbert St	
CITY, STATE, ZIP CODE, COUNTRY Allentown, PA	CARDE ARTICLE I STREET AND	Outsourc:	n INSPECTED ing Facility	
the clean room dripping from corner of ISC building roof and augmente environmenta 4.Quarter round n	eneath leaks in corridors leading to ms used for all sterile drug produce a the ceiling within the ^{(b) (4)} produce 0 8 classified Room ^{(b) (4)} personnel 7, you did not take appropriate mea ed environmental monitoring in the al microbial challenge to your facil molding used to trim the viewing v over the floor to wall joints creates aning and sanitization.	tion operation etion facility gowning ar sures such a e facility de lity caused to window to IS	ons. On 04/08/2022 a leak adjacent to the cleanroom ea. Although you have a pl s augmented cleaning and signed to control and under oy intrusion of water from 1 SO 7 classified formulation	was observed suite near the an to repair the sanitization rstand the roof leaks.
	N 7 on of automatic, mechanical and e designed to assure proper perform	-	uipment is not performed a	ccording to a
provide any evid sterilization of co	ablished a calibration program to it ence of calibration for the tempera omponents including vial stoppers, ledroxyprogesterone Acetate 150 r a.	ture and tim equipment	ing devices on (b) (4) including filling tubing, an	used for d terminal
OBSERVATION	N 8			
	AMEN	DMENT 1		
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Edmund F Mrak, Investigator Lori M Newman, Investigator John R Tuohig, Investigator		Edmand F Math Invest gaber 6 greef By: Edmand F. Maat Jr-6 Date Signet 0 - 36-3022 X	DATE ISSUED 4/26/2022
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INS	PECTIONAL O	BSERVATIONS	PAGE 8 of 16 PAGES

	F HEALTH AND HUMAN SERVICES ND DRUG ADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER US Customhouse Rm900 200 Chestnut St Philadelphia, PA 19106 (215)597-4390 Ext:4200 Fax:(215)597-08 ORAPHARM1_RESPONSES@fda.hhs.gov	Date(s) of INSPECTION 3/21/2022-4/26/2022* FEI NUMBER 3010680515
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Kyle Y. Flanigan, CEO	
FIRM NAME US Specialty Formulations LLC	street address 1401 S Albert St
CITY, STATE, ZIP CODE, COUNTRY Allentown, PA 18103-4141	TYPE ESTABLISHMENT INSPECTED Outsourcing Facility

Each batch of drug product required to be free of objectionable microorganisms is not tested through appropriate laboratory testing.

Specifically, you do not include quality control testing for sterility of your terminally sterilized drug products prior to release and you do not have adequate support for your program of parametric release for terminally sterilized drug products Medroxyprogesterone Acetate 150 mg/ml for injection and Sarracenia Purpurea 0.17 g/ml for injection. An appropriate sterilization load monitor is not included with each drug product load intended for terminal sterilization.

OBSERVATION 9

Container closure systems do not provide a dequate protection against foreseeable external factors in storage and use that can cause deterioration or contamination of the drug product.

Specifically, each lot of aseptically filled drug products B-Complex + Chromic Chloride 30 mL for injection and Ethanol for Injection 95% and terminally sterilized drug products Medroxyprogesterone Acetate 150 mg/ml for injection and Sarracenia Purpurea 0.17 g/ml for injection is not tested for container closure integrity prior to release.

OBSERVATION 10

There is a failure to thoroughly review any unexplained discrepancy whether or not the batch has been already distributed.

Specifically:

1. You did not adequately evaluate products where actionable microbial contamination was recovered in the ISO 5 classified aseptic processing area during sampling associated with aseptic production.

Your investigation Process Nonconformance No. 39 initiated for over action level[®] CFU recovered from the bench top surface sample taken in the ISO 5 classified biological safety cabinet BSC-[®]

AMENDMENT 1

SEE REVERSE OF THIS PAGE		Edmund F Maik Invest gabr 9 gref by: Edmund F. Maik Jr-6 Date Signet: 0 -35-3022 13:05:35	DATE ISSUED
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVA	TIONS	PAGE 9 of 16 PAGES

	DEPARTMENT OF HEAL FOOD AND DRU			
US Customhous	e NUMBER se Rm900 200 Chestnut St		DATE(S) OF INSPECTION 3/21/2022-4/26/2022	*
Philadelphia	, PA 19106 Ext:4200 Fax:(215)597-0875		FEI NUMBER 3010680515	
	SPONSES@fda.hhs.gov		And a contract of the many of the state of the state of the	
NAME AND TITLE OF INDIVIDUA	NL TO WHOM REPORT ISSUED			
Kyle Y. Flan	igan, CEO			
FIRM NAME US Specialty	Formulations LLC	STREET ADDRESS	lbert St	
CITY, STATE, ZIP CODE, COUNT	TRY	TYPE ESTABLISHME		
Allentown, PA	A 18103-4141	Outsourc	ing Facility	
Injection 95 batch was re <i>Paenibacill</i> identified of 2. Your investig approximat evaluate the on environr formulation Additionally environmer commence	from the gloved left hand (fingers) f 5%, Lot # (b) (4) , Expiry: 06/3 eleased on 02/03/2022 and the inver- <i>us xylanexedens</i> was identified on b in the bench top surface sample take ation Process Nonconformance No ely 2015 on 07/06/2021 to about 15 e impact of the loss of clean room at nental conditions in the clean room $1/$ filling room $(^{b)(4)}$ and the ISO 5 cla y, your investigation did not include tal control in the clean rooms befor 1000000000000000000000000000000000000	30/2023, wa stigation reports ample on in the ISC 25 initiated 30 on 07/07 in handling s facilities in ssified biolo e an evaluat e the next p acenia Purpu	s not completed and clos nained open. Gram Varia s and <i>Sphingomonas yab</i> 0 5 BSC- ⁽⁰⁾⁽⁴⁾ d for a sitewide power fai 7/2021 was inadequate in systems operation and pr cluding the ISO 7 classif ogical safety cabinet BSC ion and response designed roduction of sterile drug urea 0.17 g/ml for injection	ed out before the able <i>nuchiea</i> was lure from that you did not essure cascades ded
(b) (4) obtained rep CAPA indic Medroxypro methods for Medroxypro	03 addresses an OOS for potency in , EXP 31 JAN 23. Response flow of peat OOS results that did not match cates that the potency assay method ." However, it does not extend the ogesterone Acetate 150 mg/ml. It also r your other drug products or the met ogesterone Acetate 150 mg/ml (e.g. ogesterone process validation proto- es of the production process. It indi-	chart (RFC) the original QC-0034 r investigations so does not ethods that g bacterial e	level 1 and level 2 invest 1 OOS, and the lot was no equires " (b) on to your other lots of consider the adequacy of govern the other release s ndotoxin, sterility).	tigations both of released. The (4) f potency assay pecifications for of the most likely
	AMEN	IDMENT 1		
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Edmund F Mrak, Investigator Lori M Newman, Investigator John R Tuohig, Investigator		Edward F Max Instel and Bir S greef bir Date Signer 9 -36-3032 X 13.06.35	DATE ISSUED 4/26/2022
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INS	SPECTIONAL O	DBSERVATIONS	PAGE 10 of 16 PAGES

DISTRICT ADDRESS AND PHON		DRUG ADMINISTRA	TION DATE(S) OF INSPECTION	
US Customhou:	se Rm900 200 Chestnut St		3/21/2022-4/26/2022	*
	Ext:4200 Fax: (215) 597-087	5	FEI NUMBER 3010680515	
ORAPHARM1_RE:	SPONSES@fda.hhs.gov			
NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED			
Kyle Y. Flan	igan, CEO			
FIRM NAME	Formulation a LLC	STREET ADDRESS	Albert St	
CITY, STATE ZIP CODE, COUN	Formulations LLC	TYPE ESTABLISH		
Allentown, Pi	A 18103-4141	Outsour	cing Facility	
filling or pro- suspension	ous if the medroxyprogesterone i oblems in the fill tubing assembl could affect the final drug produ in the process validation support	ly. You did no ct uniformity/	t investigate how a hetero consistency or whether m	geneous ixing tests
□ Ethanol fo 10.8% f □ Ethanol fo primaril The accepta	onformance 24 was opened for the or Injection 95% lot (b) (4) Failure rate due primarily to white or injection 95% lot (b) (4) by to white fibers in vials. The failure rate in Process nonco	EXP 31 DEC fibers in vial , EXP 04 AU	s; and G 24, yielded a 10% failur	re rate due
vials from t incoming vi The investig	th lots were from the same vendo he lot, but you did not determine ials from the vendor or if the vial gation did not assess whether oth een affected or generate CAPA to	or (b) (4)) 1 e definitively v ls could have her product(s)	ot (b) (4). The resolution w whether the white fibers w become contaminated dur packaged in the same ven	vas to reject the ere present on ing production.
vials from to incoming vi The investig may have b 5.Process nonco), EXP 5 caps used vendor. The production. "found to h (b) (4) foreign mat	he lot, but you did not determine ials from the vendor or if the vial gation did not assess whether oth	or (b) (4))1 e definitively v ls could have her product(s) o prevent recu- arracenia purp b) (4)), EX- etermined to co- contents of the nvestigation s- foreign materia n fails to defin from the same	ot (b) (4). The resolution we whether the white fibers we become contaminated durf packaged in the same ven urrence of this issue. (b) (P 30 APR 23 for foreign originate from the same base bag had been (b) (4) tates that none of the remain al was most likely in the basis itively assess the identity evendor or other products	vas to reject the ere present on ing production. dor lot of vials (b) (4) ((b) (4) material found of g from the before aining caps were ag and and origin of the s in which this
vials from t incoming vi The investig may have b 5.Process nonce), EXP 5 caps used vendor. The production. "found to h (b) (4) foreign mat implicated l	he lot, but you did not determine ials from the vendor or if the vial gation did not assess whether oth een affected or generate CAPA to onformance 27 was opened for S 30 APR 23 and (b) (4) ((to seal vials. These caps were de e nonconformance states that the No root cause is given, but the in ave same foreign material. The f with the caps." This investigation rerial, examine other lots of caps lot may have been used, and gene	or (b) (4))1 e definitively v ls could have her product(s) o prevent recu- arracenia purp b) (4)), EX- etermined to co- contents of the nvestigation s- foreign materia n fails to defin from the same	ot (b) (4). The resolution we whether the white fibers we become contaminated durf packaged in the same ven urrence of this issue. (b) (P 30 APR 23 for foreign originate from the same base bag had been (b) (4) tates that none of the remain al was most likely in the basis itively assess the identity evendor or other products	vas to reject the ere present on ing production. dor lot of vials (b) (4) ((b) (4) material found of g from the before aning caps were ag and and origin of the s in which this
vials from t incoming vi The investig may have b 5.Process nonce), EXP 5 caps used vendor. The production. "found to h (b) (4) foreign mat implicated l	he lot, but you did not determine ials from the vendor or if the vial gation did not assess whether oth een affected or generate CAPA to onformance 27 was opened for S 30 APR 23 and (b) (4) ((to seal vials. These caps were de e nonconformance states that the No root cause is given, but the in ave same foreign material. The f with the caps." This investigation rerial, examine other lots of caps lot may have been used, and gene	or (b) (4))1 e definitively v ls could have her product(s) o prevent recu- arracenia purp b) (4)), EX- etermined to co- contents of the nvestigation s- foreign materia n fails to defin from the same	ot (b) (4). The resolution we whether the white fibers we become contaminated durf packaged in the same ven urrence of this issue. (b) (P 30 APR 23 for foreign originate from the same base bag had been (b) (4) tates that none of the remain al was most likely in the basis itively assess the identity evendor or other products	vas to reject the ere present on ing production. dor lot of vials (b) (4) ((b) (4) material found of g from the before aining caps were ag and and origin of the s in which this
vials from to incoming vi The investig may have b 5.Process nonco), EXP 5 caps used vendor. The production. "found to h (b) (4) foreign mat	he lot, but you did not determine ials from the vendor or if the vial gation did not assess whether oth een affected or generate CAPA to onformance 27 was opened for S 30 APR 23 and (b) (4) ((to seal vials. These caps were de e nonconformance states that the No root cause is given, but the in ave same foreign material. The f with the caps." This investigation terial, examine other lots of caps lot may have been used, and gene	or (b) (4))1 e definitively v ls could have her product(s) o prevent recu- arracenia purp b) (4)), EX- etermined to co- contents of the nvestigation s- foreign materia n fails to defin from the same	ot (b) (4). The resolution we whether the white fibers we become contaminated durf packaged in the same ven urrence of this issue. (b) (P 30 APR 23 for foreign originate from the same base bag had been (b) (4) tates that none of the remain al was most likely in the basis itively assess the identity evendor or other products	vas to reject the ere present on ing production. dor lot of vials (b) (4) ((b) (4) material found or g from the before aining caps were ag and and origin of the s in which this
vials from t incoming vi The investig may have b 5.Process nonce), EXP 5 caps used vendor. The production. "found to h (b) (4) foreign mat implicated l	he lot, but you did not determine ials from the vendor or if the vial gation did not assess whether oth een affected or generate CAPA to onformance 27 was opened for S 30 APR 23 and (b) (4) ((to seal vials. These caps were de e nonconformance states that the No root cause is given, but the in ave same foreign material. The f with the caps." This investigation terial, examine other lots of caps lot may have been used, and gene	br (b) (4)) 1 e definitively v ls could have her product(s) o prevent recu arracenia pur b) (4)), EX etermined to c contents of the nvestigation s foreign materia n fails to defin from the same erate controls.	ot (b) (4). The resolution we whether the white fibers we become contaminated durf packaged in the same ven- urrence of this issue. purea 0.17 g/mL lots (b) CP 30 APR 23 for foreign to originate from the same base to bag had been (b) (4) tates that none of the remain al was most likely in the base itively assess the identity e vendor or other products	vas to reject the ere present on ing production. dor lot of vials (b) (4) ((b) (4) material found or g from the before aining caps were ag and and origin of the s in which this

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHONE NUMBER US Customhouse Rm900 200 Chestnut St Philadelphia, PA 19106 (215)597-4390 Ext:4200 Fax:(215)597-08 ORAPHARM1_RESPONSES@fda.hhs.gov	75			
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED				
Kyle Y. Flanigan, CEO				
FIRM NAME US Specialty Formulations LLC	STREET ADDRESS 1401 S Albert St			
CITY, STATE, ZIP CODE, COUNTRY Allentown, PA 18103-4141	TYPE ESTABLISHMENT INSPECTED Outsourcing Facility			

Testing and release of drug product for distribution do not include appropriate laboratory determination of satisfactory conformance to the identity and strength of each active ingredient prior to release.

Specifically, you do not have test methods designed to determine the potency or concentration of each active ingredient prior to release of Sarracenia Purpurea 0.17 g/ml for injection drug product.

This is a repeat observation from the previous FDA 483 list of observations issued on 07/23/2019.

OBSERVATION 12

The written stability program for drug products does not include meaningful and specific test methods.

Specifically:

- 1. You do not have stability indicating test methods for Sarracenia Purpurea 0.17 g/ml for injection drug product designed to test the product for conformance to any established specifications throughout its lifecycle and support the labeled 18-month expiry dating.
- 2. The expiration date for Medroxyprogesterone Acetate 150 mg/ml for injection is not based on sound scientific data. The expiration date of 12 months as stated in QC-0074.F1 is based on a stability report for Medroxyprogesterone Acetate 150 mg/ml for injection lot (b) (4) released in September 2017. This stability report monitors will vials at time point but only vial at the(b) (4) will at the(b) (4) and will and will month time points. The assay report form QC-0034.F1, which records stability data for the product, contains an assay result for vial will but vials and will are crossed out or state "N/A". A sample of (b) (4) is not statistically significant enough to form the rationale for establishing a product expiration date. QC-0034.F1 also states, "Concentrations for all vials must be within the specification range" but results are provided for (b) (4). You have instituted release and stability protocols for more recent lots of Medroxyprogesterone Acetate 150 mg/ml for injection, such as (b) (4) released 3 February 2022, that state that will should be assayed at each time point. However, you did not retrospectively evaluate the expiration date of this product or perform a risk assessment based on your current requirement to test vials at each time point instead of (b) (4).

AMENDMENT 1

SEE REVERSE OF THIS PAGE		Investigator	Edmund F Mink Invest gator 9 genet By: Edmund F. Mink Jr-6 Date Signet: 0 -26-8022 X	DATE ISSUED
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLI	ETE INSPECTIONAL OBSERVATIO	ONS	PAGE 12 of 16 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHONE NUMBER US Customhouse Rm900 200 Chestnut St	DATE(S) OF INSPECTION 3/21/2022-4/26/2022*			
Philadelphia, PA 19106	FEI NUMBER			
(215)597-4390 Ext:4200 Fax:(215)597-0875	3010680515			
ORAPHARM1_RESPONSES@fda.hhs.gov				
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	I			
Kyle Y. Flanigan, CEO				
FIRM NAME US Specialty Formulations LLC	STREET ADDRESS 1401 S Albert St			
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED			
Allentown, PA 18103-4141	Outsourcing Facility			
OBSERVATION 13 Established laboratory control mechanisms are not	followed.			
Specifically: 1. You do not qualify each lot of (b) (4) cartridges before use for Bacterial endotoxin testing (BET) of drug products including B-Complex + Chromic Chloride 30 mL for injection, Ethanol for Injection 95%, Medroxyprogesterone Acetate 150 mg/ml for injection, and Sarracenia Purpurea 0.17 g/ml for injection.				
2. Your procedure SOP QC-0092 Chromatography Column Receipt and Handling stipulates that a usage log shall be maintained for the HPLC column. However, no log is currently in use for the column identified as a (b) (4) Serial #(b) (4) used for Sarracenia Purpurea Bulk Distillate and Sarracenia Purpurea 0.17 g/ml for injection drug product HPLC Identity Assay and (b) (4) Potency Assay. While you indicated that a log will be kept for the next HPLC column you acquire, a log should also be kept for the current one to monitor the column throughout its lifecycle and anticipate the need for column maintenance or replacement.				
3.You did not validate your (b) (4) test method for holding product (b) (4) over a specified time period for each applicable drug product. You store product (b) (4) under (b) (4) after use and later test them for integrity. Your procedure SOP # QC-0023 (b) (4) Testing of (b) (4) , Effective Date: 06/28/2021 instructs QC Technicians "(b) (4) . Additionally, your procedure does not specify any limitations on the (b) (4) storage time allowed for product (b) (4) prior to				
AMENDMENT 1				
SEE REVERSE OF THIS PAGE John R Tuohig, Investigator	Edmund F Mink nived gate 0 defined 0 -35-0022 X DATE ISSUED 4/26/2022 4/26/2022			
FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INS	PAGE 13 of 16 PAGES			

	LTH AND HUMAN SERVICES UG ADMINISTRATION		
DISTRICT ADDRESS AND PHONE NUMBER US Customhouse Rm900 200 Chestnut St Philadelphia, PA 19106 (215)597-4390 Ext:4200 Fax:(215)597-0875 ORAPHARM1 RESPONSES@fda.hhs.gov	DATE(S) OF INSPECTION 3/21/2022-4/26/2022* FEI NUMBER 3010 68 0515		
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Kyle Y. Flanigan, CEO			
FIRM NAME	STREET ADDRESS		
US Specialty Formulations LLC	1401 S Albert St		
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED		
Allentown, PA 18103-4141	Outsourcing Facility		

being integrity tested.

OBSERVATION 14

Determinations of conformance to appropriate written specifications for acceptance are deficient in that they are not made for each lot within each shipment of components used in the manufacture, processing, packing or holding of drug products.

Specifically, your firm receives *Sarracenia purpurea* leaves for processing into bulk distillate and final drug product. The only documentation associated with each shipment of (b) (4) is an email from the ^{(b) (4)} supplier stating the weight of (b) (4) shipped. When you receive the (b) (4), you weigh them, perform a visual inspection, and send a sample to a contract lab for (b) (4) identification. You do not test the incoming *Sarracenia purpurea* leaves for potential pesticide content. You also do not test your *Sarracenia purpurea* bulk distillate or final drug product for pesticide content.

OBSERVATION 15

Protective apparel is not worn as necessary to protect drug products from contamination.

Specifically, your procedure SOP # QA-0022 Traffic and Gowning Requirements, Effective Date: 11/08/2021 does not include requirements for personnel gowning to enter the ISO 8 room ^{(b) (4)} for preparation of equipment to enter the ISO 7 Room ^{(b) (4)} or to prepare process equipment and components for sterilization including aseptic filling tubing sets. On 03/23/2022, during your aseptic simulation for Static Preservation Solution (SPS-1) (b) (4) filling of IV Bags, Lot # (b) (4) , we observed personnel outside the clean room in street clothes, except for shoe covers and exam gloves, wipe down bins with wipes and sterile (b) (4) then enter the ISO 8 room without additional gowning and repeat the wipe down. Additionally, we observed that the clean room technician retrieved the bins without performing a final sanitization wipe down of all the nested bins – only the (b) (4) bin surfaces received (b) (4) before entry to the ISO 7 clean room housing the ISO 5 classified BSC^{(b)(4)} where aseptic operations are performed.

AMENDMENT 1

SEE REVERSE OF THIS PAGE	Lori M Newman, Investigator	dmund F Math well gabe greef By: Edmund F. Math Jr-6 ste Signet: 0 -36-2022	28
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS	PAGE 14 of	f 16 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
Philadelphia, (215)597-4390	NNE NUMBER Ise Rm900 200 Chestnut St 3 0. PA 19106		DATE(S) OF INSPECTION 3/21/2022-4/26/2022 FEI NUMBER 3010680515	2*
NAME AND TITLE OF INDIVIDUA Kyle Y. Fland				
FIRM NAME	STREET ADDRESS			
US Specialty CITY, STATE, ZIP CODE, COUNT	Formulations LLC	1401 S A TYPE ESTABLISHME	ALTERNIT TABOX ATRACTS	
Allentown, PA	A 18103-4141	Outsourc	ing Facility	
OBSERVATION 16 The labels of your outsourcing facility's drug products are deficient. Specifically: 1. The labels of your outsourcing facility's drug products do not include information required by section 503B(a)(10). Specifically, the following information is not found on your drug product labels: a. The dosage form. Examples of your drug product labels that do not contain this information: B-Complex + Chromic Chloride b. A list of active and inactive ingredients, identified by established name and the quantity or proportion of each ingredient. Examples of your drug product labels that do not contain this information: Sarracenia Purpurea 0.17 g/mL, 10 mL: The inactive ingredients are listed as salts and volatile bases of Sarraceniaceae (99%) and benzyl alcohol in (b) (4) (0.75%) without reference to what salts and bases of Sarraceniaceae are included and at what proportion. Route of administration. Examples of drug product containers that do not contain this information: Sarracenia Purpurea 0.17 g/mL, 10 mL; Medroxyprogesterone Acetate 150 mg/mL; 				
AMENDMENT 1				
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Edmund F Mrak, Investigator Lori M Newman, Investigator John R Tuohig, Investigator		Edmund F Mrak Inset gate Date Signet 0 - 35-3022 X 13:05:35	DATE ISSUED 4/26/2022
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE IN:	SPECTIONAL C	DBSERVATIONS	PAGE 15 of 16 PAGES

	DEPARTMENT OF HEAL FOOD AND DRU	TH AND HUMAN G ADMINISTRATIO		S	
	ISTRICT ADDRESS AND PHONE NUMBER		DATE(S) OF INSPECTION		
	S Customhouse Rm900 200 Chestnut St Philadelphia, PA 19106		3/21/2022-4/26/2022*		
[1] The second s Second second s Second second s Second second s Second second se	Ext: 4200 Fax: (215) 597-0875		3010680515		
ORAPHARMI_RE:	SPONSES@fda.hhs.gov				
NAME AND TITLE OF INDIVIDUA		I			
Kyle Y. Flan:	igan, CEO				
FIRM NAME US Specialty	Formulations LLC	STREET ADDRESS	bert St	1	
CITY, STATE, ZIP CODE, COUN		TYPE ESTABLISHMENT	INSPECTED		
Allentown, PA	A 18103-4141	Outsourcing Facility			
Ethanol 95%					
-	stances used by your outsourcing by an establishment that is regi		-		
the bulk drug su	ou manufacture Sarracenia Purpurea Ibstance Sarracenia Purpurea Bulk r section 510 of the Act.	0	5		
	n), 3/22/2022(Tue), 3/23/2022(Wed)), 4/06/2022(Wed), 4/07/2022(Thu) ^{2 13.06:19}				/2022(Mon),
	AMEN				
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Edmund F Mrak, Investigator Lori M Newman, Investigator John R Tuohig, Investigator			Edward 5 Mak Bernel Bible S greet by: Edward F. Mak Jr-6 Det Signet 8 - 26-2022 X 13.05.35	DATE ISSUED
	L				L

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 16 of 16 PAGES

The observations of objectionable conditions and practices listed on the front of this form are reported:

- 1. Pursuant to Section 704(b) of the Federal Food, Drug and Cosmetic Act, or
- 2. To assist firms inspected in complying with the Acts and regulations enforced by the Food and Drug Administration.

Section 704(b) of the Federal Food, Drug, and Cosmetic Act (21 USC 374(b)) provides:

"Upon completion of any such inspection of a factory, warehouse, consulting laboratory, or other establishment, and prior to leaving the premises, the officer or employee making the inspection shall give to the owner, operator, or agent in charge a report in writing setting forth any conditions or practices observed by him which, in his judgment, indicate that any food, drug, device, or cosmetic in such establishment (1) consists in whole or in part of any filthy, putrid, or decomposed substance, or (2) has been prepared, packed, or held under insanitary conditions whereby it may have become contaminated with filth, or whereby it may have been rendered injurious to health. A copy of such report shall be sent promptly to the Secretary."