Macroanalytical Procedures Manual (MPM)

MPM: V-8. Spices, Condiments, Flavors, and Crude Drugs

C. Supplemental Method for Nutmegs

Version 1 - May 1998

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C. Supplemental Method for Nutmegs

(1) Scope

This method supplements Section 8.A., by describing procedures specific to nutmegs (*Myristica fragrans* Houttuyn).

- (2) Applicable Documents
 - CPG 7109.16
- (3) Procedure: Determination of Contamination in Nutmegs Caused by Insects, Animal Excreta, and Extraneous Material

Examine as in 8.A.(4)a-d for whole nutmegs, use analytical sample of 500 g or more.

- (4) Procedure: Determination of Insect-Damaged, Moldy, and Otherwise Reject Nutmegs
- **a. Sample Preparation** -- Weigh and examine at least 100 nutmegs from each subsample. Cut each nutmeg in half lengthwise with a sharp knife, pruning shears, or similar implement.
- **b.** *Visual Examination* -- Examine the cut surfaces of each nutmeg for presence of insects or signs of insect damage, presence of mold, or other evidence of defilement.
- **c.** Classification of Reject Material -- Classify as moldy (reject) any nutmeg showing mold on 1/4 or more of the cut surface. For other categories of rejects, classify as in Section 8.A., (5)c.(i), Insect-Damaged; (5)c.(iii), Animal-Contaminated and (5)c.(iv), Otherwise Reject Material.
- d. Report -- Tabulate results as in 8.A.(5)d.

References

- (1) American Spice Trade Assn. Inc., *Cleanliness Specifications for Unprocessed Spices, Seeds and Herbs*, ASTA, 580 Sylvan Ave., Englewood Cliffs, NJ 07632, Jan. 1983.
- (2) ASTA, Official Analytical Methods of ASTA, 2nd Ed., 1968.

- (3) Parry, J. W., *Spices Their Morphology, Histology, and Chemistry*, Chemical Publishing Co., Inc., New York, NY, 1962.
- (4) White, Ralph T., "Studies on the Storage and Shipment of Whole Black Pepper Grown in the Orient," J. Econ. Entomol. *50*: 423-428, 1957.

Revision History

Version No.	Purpose of change	Date
V0	New process	1984
V1	Electronic Version	1998