

## Agricultural Marketing Service, USDA

§ 93.2

the USDA developed analytical test methods and all successive official method updates, as approved by the AMS Deputy Administrator, Science and Technology. Many of the official analyses for tobacco are found in the following manuals:

(a) Manual of Analytical Methods for the Analysis of Pesticide Residues in Human and Environmental Samples, EPA 600/9-80-038, U.S. Environmental Protection Agency (EPA) Chemical Exposure Research Branch, EPA Office of Research and Development (ORD), 26 West Martin Luther King Drive, Cincinnati, Ohio 45268.

(b) Official Methods of Analysis of AOAC INTERNATIONAL, Volumes I & II, AOAC INTERNATIONAL, 481 North Frederick Avenue, Suite 500, Gaithersburg, MD 20877-2417.

(c) U.S. Food and Drug Administration, Pesticide Analytical Manuals (PAM), Volumes I and II, Food and Drug Administration, Center for Food Safety and Applied Nutrition (CFSAN), 200 C Street, SW, Washington, DC 20204 (available from National Technical Information Service (NTIS), U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161).

[65 FR 64316, Oct. 26, 2000]

### § 92.6 Cost for pesticide analysis set by cooperative agreement.

The fee for the pesticide analysis of tobacco is set by the AMS Tobacco Programs, in conjunction with the AMS Science and Technology program, and appears at 7 CFR 29.500 as part of Tobacco Programs' fees for sampling and certification of imported flue-cured and burley tobacco. A Memorandum of Understanding (MOU) exists between the Tobacco Programs and the Science and Technology (S&T) for the testing of imported tobacco samples for pesticide residue contamination, and the corresponding agreement on the cost of analyses is specified in the MOU.

[65 FR 64316, Oct. 26, 2000]

## PART 93—PROCESSED FRUITS AND VEGETABLES

### Subpart A—Citrus Juices and Certain Citrus Products

Sec.

- 93.1 General.
- 93.2 Definitions.
- 93.3 Analyses available and location of laboratory.
- 93.4 Analytical methods.
- 93.5 Fees for citrus product analyses set by cooperative agreement.

### Subpart B—Peanuts, Tree Nuts, Corn and Other Oilseeds

- 93.10 General.
- 93.11 Definitions.
- 93.12 Analyses available and locations of laboratories.
- 93.13 Analytical methods.
- 93.14 Fees for aflatoxin analysis and fees for testing of other mycotoxins.
- 93.15 Fees for analytical testing of oilseeds.

AUTHORITY: 7 U.S.C. 1622, 1624.

SOURCE: 61 FR 51351, Oct. 2, 1996, unless otherwise noted.

### Subpart A—Citrus Juices and Certain Citrus Products

#### § 93.1 General.

Domestic and imported citrus products are tested to determine whether quality and grade standards are satisfied as set forth in the Florida Citrus Code.

#### § 93.2 Definitions.

Words used in the regulations in this subpart in the singular form will import the plural, and vice versa, as the case may demand. As used throughout the regulations in this subpart, unless the context requires otherwise, the following terms will be construed to mean:

*Acid.* The grams of total acidity, calculated as anhydrous citric acid, per 100 grams of juice or citrus product. Total acidity is determined by titration with standard sodium hydroxide solution, using phenolphthalein as indicator.

*Brix or degrees Brix.* The percent by weight concentration of the total soluble solids of the juice or citrus product when tested with a Brix hydrometer calibrated at 20 °C (68 °F) and to which

### § 93.3

### 7 CFR Ch. I (1–1–07 Edition)

any applicable temperature correction has been made. The Brix or degrees Brix may be determined by any other method which gives equivalent results.

*Brix value.* The pure sucrose or soluble solids value of the juice or citrus product determined by using the refractometer along with the “International Scale of Refractive Indices of Sucrose Solutions” and to which the applicable correction for acidity is added. The Brix value is determined in accordance with the refractometer method outlined in the Official Methods of Analysis of AOAC INTERNATIONAL, Volumes I & II.

*Brix value/acid ratio.* The ratio of the Brix value of the juice or citrus product, in degrees Brix, to the grams of anhydrous citric acid per 100 grams of juice or citrus product.

*Brix/acid ratio.* The ratio of the degrees Brix of the juice to the grams of anhydrous citric acid per 100 grams of the juice.

*Citrus.* All plants, edible parts and commodity products thereof, including pulp and juice of any orange, lemon, lime, grapefruit, mandarin, tangerine, kumquat or other tree or shrub in the genera *Citrus*, *Fortunella*, or *Poncirus* of the plant family Rutaceae.

*Recoverable oil.* The percent of oil by volume, determined by the bromate titration method after distillation and acidification as described in the current edition of the Official Methods of Analysis of AOAC INTERNATIONAL, Volumes I & II.

[61 FR 51351, Oct. 2, 1996, as amended at 65 FR 64316, Oct. 26, 2000]

#### § 93.3 Analyses available and location of laboratory.

(a) Laboratory analyses of citrus juice and other citrus products are being performed at the following Science and Technology location: USDA, AMS, S&T Eastern Laboratory (Citrus), 98 Third Street, SW., Winter Haven, FL 33880.

(b) Laboratory analyses of citrus fruit and products in Florida are available in order to determine if such commodities satisfy the quality and grade standards set forth in the Florida Citrus Code (Florida Statutes Pursuant to Chapter 601). Such analyses include tests for acid as anhydrous citric acid,

Brix, Brix/acid ratio, recoverable oil, and artificial coloring matter additive, as turmeric. The Fruit and Vegetable Inspectors of the Division of Fruit and Vegetable of the Florida Department of Agriculture and Consumer Services may also request analyses for arsenic metal, pulp wash (ultraviolet and fluorescence), standard plate count, yeast with mold count, and nutritive sweetening ingredients as sugars.

(c) There are additional laboratory tests available upon request at the Science and Technology Eastern (Citrus) Laboratory at Winter Haven, Florida. Such analyses include tests for vitamins, naringin, sodium benzoate, *Salmonella*, protein, salt, pesticide residues, sodium metal, ash, potassium metal, and coliforms for citrus products.

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#### § 93.4 Analytical methods.

(a) The majority of analytical methods for citrus products are found in the Official Methods of Analysis of AOAC INTERNATIONAL, Volumes I & II, AOAC INTERNATIONAL, 481 North Frederick Avenue, Suite 500, Gaithersburg, MD 20877–2417.

(b) Other analytical methods for citrus products may be used as approved by the AMS Deputy Administrator, Science and Technology (S&T).

[65 FR 64317, Oct. 26, 2000]

#### § 93.5 Fees for citrus product analyses set by cooperative agreement.

The fees for the analyses of fresh citrus juices and other citrus products shall be set by mutual agreement between the applicant, the State of Florida, and the AMS Deputy Administrator, Science and Technology programs. A Memorandum of Understanding (MOU) or cooperative agreement exists presently with the AMS Science and Technology and the State of Florida, regarding the set hourly rate and the costs to perform individual analytical tests on Florida citrus products, for the State.

[65 FR 64317, Oct. 26, 2000]

### Subpart B—Peanuts, Tree Nuts, Corn and Other Oilseeds

#### § 93.10 General.

Chemical analyses are performed to detect the presence of aflatoxin in lots of shelled peanuts and peanut products, as well as in other nuts and agricultural products. In addition, proximate chemical analyses for quality determination are performed on oilseeds.

#### § 93.11 Definitions.

Words used in the regulations in this subpart in the singular form will import the plural, and vice versa, as the case may demand. As used throughout the regulations in this subpart, unless the context requires otherwise, the following terms will be construed to mean:

*Aflatoxin.* A toxic metabolite produced by the molds *Aspergillus flavus*, *Aspergillus parasiticus*, and *Aspergillus nomius*. The aflatoxin compounds fluoresce when viewed under UV light as follows: aflatoxin B<sub>1</sub> and derivatives with a blue fluorescence, aflatoxin B<sub>2</sub> with a blue-violet fluorescence, aflatoxin G<sub>1</sub> with a green fluorescence, aflatoxin G<sub>2</sub> with a green-blue fluorescence, aflatoxin M<sub>1</sub> with a blue-violet fluorescence, and aflatoxin M<sub>2</sub> with a violet fluorescence. These closely related molecular structures are referred to as aflatoxin B<sub>1</sub>, B<sub>2</sub>, G<sub>1</sub>, G<sub>2</sub>, M<sub>1</sub>, M<sub>2</sub>, GM<sub>1</sub>, B<sub>2a</sub>, G<sub>2a</sub>, R<sub>0</sub>, B<sub>3</sub>, 1-OCH<sub>3</sub>B<sub>2</sub>, and 1-CH<sub>3</sub>G<sub>2</sub>.

*Peanut Administrative Committee (PAC).* The committee established under the United States Department of Agriculture Marketing Agreement for Peanuts, 7 CFR part 998, which administers the terms and provisions of this Agreement, including the aflatoxin control program for domestically produced raw peanuts, for peanut shellers. The Peanut Administrative Committee (PAC) headquarters are at 2537 Lafayette Plaza Drive Suite A; Albany, Georgia 31707.

*Peanut Marketing Agreement.* The agreement concerning the regulations and instructions set forth since July 12, 1965, by the Peanut Administrative Committee for the marketing of peanuts entered into by handlers of domestically produced peanuts under the authority of the Agricultural Marketing

Agreement Act of 1937, as amended (7 U.S.C. 601 et seq.).

*Peanuts.* The seeds of the legume *Arachis hypogaea*, and includes both inshell and shelled nuts.

*Seed.* Any vegetable or other agricultural plant ovule having an embryo that is capable of germinating to produce a plant.

[61 FR 51351, Oct. 2, 1996, as amended at 63 FR 16375, Apr. 2, 1998; 65 FR 64317, Oct. 26, 2000]

#### § 93.12 Analyses available and locations of laboratories.

(a) *Aflatoxin testing services.* The aflatoxin analyses for peanuts, peanut products, dried fruits, grains, edible seeds, tree nuts, shelled corn products, cottonseed, oilseed products and other commodities are performed at the following 6 locations for AMS Science and Technology (S&T) Aflatoxin Laboratories:

- (1) USDA, AMS, S&T  
1211 Schley Avenue, Albany, GA 31707.
- (2) USDA, AMS, S&T  
c/o Golden Peanut Company, Mail:  
P.O. Box 279, 301 West Pearl Street,  
Aulander, NC 27805.
- (3) USDA, AMS, S&T  
610 North Main Street, Blakely, GA 31723.
- (4) USDA, AMS, S&T  
107 South Fourth Street, Madill, OK 73446.
- (5) USDA, AMS, S&T  
c/o Cargill Peanut Products, Mail:  
P.O. Box 272, 715 North Main  
Street, Dawson, GA 31742-0272.
- (6) USDA, AMS, S&T  
Mail: P.O. Box 1130, 308 Culloden  
Street, Suffolk, VA 23434.

(b) *Peanuts, peanut products, and oilseed testing services.* (1) The Science and Technology (S&T) Aflatoxin Laboratories at Madill, Oklahoma and Blakely, Georgia will perform other analyses for peanuts, peanut products, and a variety of oilseeds. The analyses for oilseeds include testing for free fatty acids, ammonia, nitrogen or protein, moisture and volatile matter, foreign matter, and oil (fat) content.

(2) All of the analyses described in paragraph (b)(1) of this section performed on a single seed sample are billed at the rate of one hour per sample. Any single seed analysis performed

## §93.13

on a single sample is billed at the rate of one-half hour per sample. The standard hourly rate shall be as specified in §91.37(a) of this subchapter.

(c) *Vegetable oil testing services.* The analyses for vegetable oils are performed at the USDA, AMS, Science and Technology (S&T) Midwestern Laboratory, 3570 North Avondale Avenue, Chicago, IL 60618-5391. The analyses for vegetable oils will include the flash point test, smoke point test, acid value, peroxide value, phosphorus in oil, and specific gravity. The fee charged for any single laboratory analysis for vegetable oils shall be obtained from the Midwestern Laboratory Director and it is based on the hourly fee rates and charges as specified in 7 CFR part 91, subpart I.

[65 FR 64317, Oct. 26, 2000]

### §93.13 Analytical methods.

Official analyses for peanuts, nuts, corn, oilseeds, and related vegetable oils are found in the following manuals:

(a) Approved Methods of the American Association of Cereal Chemists (AACC), American Association of Cereal Chemists/Eagan Press, 3340 Pilot Knob Road, St. Paul, Minnesota 55121-2097.

(b) ASTA's Analytical Methods Manual, American Spice Trade Association (ASTA), 560 Sylvan Avenue, P.O. Box 1267, Englewood Cliffs, New Jersey 07632.

(c) Analyst's Instruction for Aflatoxin (August 1994), S&T Instruction No. 1, USDA, Agricultural Marketing Service, Science and Technology, 3521 South Agriculture Building, 1400 Independence Avenue, SW., P.O. Box 96456, Washington, DC 20090-6456.

(d) Official Methods and Recommended Practices of the American Oil Chemists' Society (AOCS), American Oil Chemists' Society, P.O. Box 3489, 2211 West Bradley Avenue, Champaign, Illinois 61821-1827.

(e) Official Methods of Analysis of AOAC INTERNATIONAL, Volumes I & II, AOAC INTERNATIONAL, 481 North Frederick Avenue, Suite 500, Gaithersburg, MD 20877-2417.

(f) Standard Analytical Methods of the Member Companies of Corn Indus-

## 7 CFR Ch. I (1-1-07 Edition)

tries Research Foundation, Corn Refiners Association (CRA), 1701 Pennsylvania Avenue, NW., Washington, DC 20006.

(g) U.S. Army Natick Research, Development and Engineering Center's Military Specifications, approved analytical test methods noted therein, Code NPP-9, Department of Defense Single Stock Point (DODSSP) for Military Specifications, Standards, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

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### §93.14 Fees for aflatoxin analysis and fees for testing of other mycotoxins.

(a) The fee charged for any laboratory analysis for aflatoxins and other mycotoxins shall be obtained from the Laboratory Director for aflatoxin laboratories at the Dothan administrative office as follows: USDA, AMS, Science & Technology, 3119 Wesley Way, Suite 6, Dothan, Alabama 36305, Voice Phone: 334-794-5070, Facsimile: 334-792-1432.

(b) The charge for the aflatoxin testing of raw peanuts under the Peanut Marketing Agreement for subsamples 1-AB, 2-AB, 3-AB, and 1-CD is a set cost per pair of analyses and shall be set by cooperative agreement between the Peanut Administrative Committee and AMS Science and Technology program.

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### §93.15 Fees for analytical testing of oilseeds.

The fee charged for any laboratory analysis for oilseeds shall be obtained from the Laboratory Director for aflatoxin laboratories at the Dothan administrative office as listed in 7 CFR 93.14(a).

[65 FR 64318, Oct. 26, 2000]

## PART 94—POULTRY AND EGG PRODUCTS

### Subpart A—Mandatory Analyses of Egg Products

Sec.

94.1 General.

94.2 Definitions.

94.3 Analyses performed and locations of laboratories.

94.4 Analytical methods.