

Chapter Ag 107

SAMPLING AND TESTING MILK AND CREAM

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History: Chapter Ag 107 as it existed on August 31, 1966 was repealed and a new chapter Ag 107 was created effective September 1, 1966.

Ag 107.01 Definitions. As used herein:

- (1) "Department" means the State Department of Agriculture.
- (2) "Sample" means a sample of milk or cream used for testing to determine the value of such milk or cream.
- (3) "Ounce" means fluid ounce.

History: Cr. Register, August, 1966, No. 128, eff. 9-1-66

Ag 107.02 Collection and care of samples. (1) Sample bottles shall be transparent. Single service transparent containers may be used for taking samples from farm bulk tanks. Bulk tank sample containers shall have a minimum capacity of 4 ounces. Farm bulk tank samples shall be transferred to composite sample bottles by 10:00 A.M. of the day after arrival at the dairy plant. Bulk tank samples shall be thoroughly mixed before transfer to the composite sample bottle. Sample containers and composite sample bottles shall bear legible letters or numbers identifying each patron's sample. When a patron discontinues shipping milk or cream the numbers or letters used to identify his sample shall not be reused for a period of 90 days. The bottles shall be cleaned, sanitized with an effective bactericide, and thoroughly dried prior to use.

(2) Milk or cream shall be thoroughly mixed or stirred before each sample is taken. Farm bulk tanks shall be agitated at least 5 minutes before sampling. Samples taken from farm bulk tanks shall be at least 2 ounces and shall be kept tightly covered at a temperature between 32 and 50 degrees Fahrenheit. Composite samples shall not be transported to the farm premises.

(3) Composite samples shall be kept tightly covered and maintained at a temperature between 32 and 50 degrees Fahrenheit in a refrigerated cabinet in or near the receiving room. Composite samples for each individual truckload of milk shall not be kept unrefrigerated in the plant intake any longer than necessary to complete the unloading, weighing and sampling of such truckload. One bichloride of mercury (corrosive sublimate) tablet shall be used as a preservative in each composite sample. Such tablet shall weigh not more than 1 gram and contain not less than 3.5 nor more than 7.7 grains of bichloride of mercury. When a patron's daily delivery can be weighed in a single weighing, a composite sample shall consist of a 10-milliliter representative sample of each patron's daily delivery for each day of the payment period, except when milk is frozen or otherwise delivered in such condition as to prevent complete dispersion of the butterfat. Milk to be sampled shall be poured into a weigh tank

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that has been constructed or equipped in such a manner that complete mixing of the milk results prior to sampling. Multiple weighings of a patron's milk shall be equalized in weight as nearly as possible. The entire contents of each can of milk shall be weighed in a single weighing. Whenever a patron's daily milk delivery requires multiple weighings, an 8-ounce composite bottle shall be provided for each weighing. Such bottles shall be identified with the patron's number followed by a letter (A, B, etc.) designating the weighing. A separate composite sample shall be made for each weighing consisting of a 10-milliliter representative sample of such weighing for each day of the payment period. Such separate samples shall be warmed and mixed together in accordance with methods prescribed in section Ag 107.03 to form a single composite sample of not more than 6 ounces prior to pipetting. When milk deliveries are not made on a daily basis, an aliquot sample of sufficient quantity shall be taken from each delivery so that the resulting composite sample shall be at least 4 ounces. Composite sample bottles shall have a capacity of 8 ounces. No composite sample shall consist of less than 4 nor more than 6 ounces.

History: Cr. Register, August, 1966, No. 128, eff. 9-1-66.

Ag 107.03 Testing Samples. (1) Samples shall be mixed and tested in accordance with one of the methods prescribed in the 1965 edition of "Official Methods of Analysis of the Association of Official Agricultural Chemists", a copy of which is on file in the offices of the State Department of Agriculture, Secretary of State, and Revisor of Statutes, and which may be obtained from Association of Official Agricultural Chemists, Inc., P. O. Box 540, Benjamin Franklin Station, Washington, D. C. 20044. A mechanical reader, such as a needle-point divider or other device which accurately determines milk fat level in a test bottle, shall be used in the conduct of each Babcock test.

(2) Composite samples shall be tested within 3 days, Saturdays, Sundays and holidays excepted, after the last sample shall have been added to the composite sample. The department, after approval in writing, may extend such period of time. Such approval will be granted only if the department has been notified of the specific date on which the test will be conducted. The residue of each sample shall be removed from the water bath immediately after each such sample has been pipetted. The residue of each sample shall be held intact after testing and kept refrigerated at a temperature between 32 and 50 degrees Fahrenheit on the premises where tested for a period of not less than 5 days. The department may retest such samples on the premises where they were tested or remove them to another laboratory for such purpose. The department may retain such samples for investigative or evidentiary purposes. The department shall return the residues of samples after testing upon request in writing made by the dairy plant operator at the time samples are collected.

History: Cr. Register, August, 1966, No. 128 eff. 9-1-66.

Ag 107.04 Test records. Each licensed tester, immediately after testing a sample, shall record, in duplicate, on a form prescribed by the department, the results of such test opposite the name or identification number of the patron whose milk or cream was tested. Such records shall show the date of the test and all copies shall be signed by the tester. One of the copies shall be available for examination

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by the department at the dairy plant. All test records shall be kept for a period of 3 years. No such record of tests shall be altered except that errors shall be corrected by striking through the original entry with a line and inserting the correct entry immediately adjacent thereto, along with the initials of the tester making the corrective entry.

History: Cr. Register, August, 1966, No. 128, eff. 9-1-66.