



CHAPTER

**Subchapter 2 Milk **<https://doi.org/10.1093/9780197610145.003.208>

Published: January 2023

Collections: AOAC Publications

33.2.01 AOAC Official Method 925.20**Collection of Milk Laboratory Sample: Procedure**

First Action 1925

[See also 968.12 (see 33.1.01) and 979.26 (see 33.1.02).]

Laboratory sample size necessary varies with analyses required. For usual analysis collect 250–500 mL ($\frac{1}{2}$ –1 pt) laboratory sample; for fat determination only, collect 50–60 mL (ca 2 fl oz).

For bottled milk, collect ≥ 1 container as prepared for sale. Thoroughly mix bulk milk by pouring from one clean vessel into another three or four times or stir ≥ 30 s with utensil reaching to bottom of container. If cream layer has formed, detach all of it from sides of vessel and stir until liquid is evenly emulsified or use hand homogenizer.

Place in nonabsorbent, air-tight containers and keep cold, but above freezing temperature, until examined. When transporting laboratory samples, completely fill containers, cap tightly, and identify. Tablets containing 10 mg 2-bromo-2-nitropropane-1,3-diol (Bronopol[®]) or 0.05 mL (2% Bronopol) in 50 mL laboratory sample, or 36% solution of HCHO, 0.1 mL (two drops) per fl oz (30 mL), may be used unless presence of preservative is objectionable in physical or chemical tests to be made in addition to determination of fat. If phosphatase test is to be made, only CHCl_3 can be used as preservative, and stoppers must be of phenol-free material such as red rubber.

33.2.02 AOAC Official Method 925.21**Preparation of Milk Test Sample: Procedure**

First Action 1925

Bring test sample to ca 20°C, mix until homogeneous by pouring into clean receptacle and back repeatedly, and promptly weigh or measure test portion. If lumps of cream do not disperse, warm test sample in water bath to ca 38°C and keep mixing until homogeneous. Using policeman, if necessary, to reincorporate any cream adhering to container or stopper. Where practical and fat remains dispersed, cool warmed test samples to ca 20°C before transferring test portion.

When Babcock method, 989.04D(a) (see 33.2.27), is used, adjust both fresh and composite test samples to ca 38°C, mix until homogeneous as above, and immediately pipet portions into test bottles.

Aoac 20methods Of Milk

**Adriano Gomes da Cruz,Tatiana
Colombo Pimentel,Erick Almeida
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Analytical Methods for Milk and Milk Products Megh R. Goyal, N. Veena, Santosh Kumar Mishra, 2024-02-20 This new three volume set comprehensively illustrates a wide range of analytical techniques and methodologies for assessing the physical chemical and microbiological properties of milk and milk products to ensure nutritional and technological quality and safety of milk and milk products This volume focuses on various analytical methods for physicochemical and compositional analysis of concentrated coagulated and fermented dairy products in detail It also describes the standard methodologies for the analysis of nutraceutical components and food additives commonly used in various dairy products to meet technological and nutritional quality standards The other volumes are Volume 1 Sampling Methods Chemical and Compositional Analysis Volume 3 Microbiological Analysis is forthcoming Together these three volumes will be a complete and thorough reference on analytical methods for milk and milk products The volumes will be valuable for researchers scientists food analysts food analysis and research laboratory personnel involved in the area of milk and milk products analysis as well as for faculty and students

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Microbiological Examination Methods of Food and Water Neusely da Silva,Marta H. Taniwaki,Valéria C.A. Junqueira,Neliane Silveira,Margarete Midori Okazaki,Renato Abeilar Romeiro Gomes,2018-11-13 Microbiological Examination Methods of Food and Water 2nd edition is an illustrated laboratory manual that provides an overview of current standard microbiological culture methods for the examination of food and water adhered to by renowned international organizations such as ISO AOAC APHA FDA and FSIS USDA It includes methods for the enumeration of indicator microorganisms of general contamination indicators of hygiene and sanitary conditions sporeforming spoilage fungi and pathogenic bacteria Every chapter begins with a comprehensive in depth and updated bibliographic reference on the microorganism s dealt with in that particular section of the book The latest facts on the taxonomic position of each group genus or species are given as well as clear guidelines on how to deal with changes in nomenclature on the internet All chapters provide schematic comparisons between the methods presented highlighting the main differences and similarities This allows the user to choose the method that best meets his her needs Moreover each chapter lists validated alternative quick methods which though not described in the book may and can be used for the analysis of the microorganism s dealt with in that particular chapter The didactic setup and the visualization of procedures in step by step schemes allow the user to quickly perceive and execute the procedure intended Support material such as drawings procedure schemes and laboratory sheets are available for downloading and customization This compendium will serve as an up to date practical companion for laboratory professionals technicians and research scientists instructors teachers and food and water analysts Alimentary engineering chemistry biotechnology and biology under graduate students specializing in food sciences will also find the book beneficial It is furthermore suited for use as a practical laboratory manual for graduate courses in Food Engineering and Food Microbiology

Journal of the Association of

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