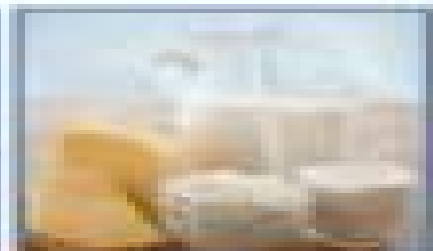


1st EDITION, 2015



**MANUAL OF METHODS
OF
ANALYSIS OF FOODS**

MILK AND MILK PRODUCTS



**FOOD SAFETY AND STANDARDS AUTHORITY OF INDIA
MINISTRY OF HEALTH AND FAMILY WELFARE
GOVERNMENT OF INDIA
NEW DELHI
2015**

Milk Analysis Manual

**John Oliver (principal of the Western
dairy inst.)**



Milk Analysis Manual:

Analysis of Milk and Its Products Milk Industry Foundation, 2005 This Is The Second Edition Of A Manual That Has Achieved A Distinguished Place In The Dairy Industry And Has Rendered A Service To The Industry Throughout The World The General Form Of Presentation Of The Text Has Been Retained But The Material Has Been Rearranged Under A Greater Number Of Chapter Headings To Provide More Clarity And To Facilitate Ease In Locating The Various Topics When Using The Manual A Consistent Effort Has Been Made To Cite The Best Available Reference Material For The Contents Of All Chapters The Book Divided Into 7 Parts And 43 Chapters Along With Appendix This Well Illustrated Book Will Satisfy Its Readers Requirements And Form A Valuable Book For All Those Concerned With Milk Industry And Utilisation Of Their Products Contents Part I Organization Of A Dairy Laboratory Chapter 1 The Milk Control Laboratory Routine Control Measures Bacteriological Equipment Babcock Equipment Mojonnier Equipment Chapter 2 Suggested Schedule Of Routine Laboratory Procedure Receiving Stations And Milk Processing Plants Creameries Ice Cream Plants Part Ii Microbiological Control Of Dairy Products Chapter 3 Agar Plate Counts Introduction American Public Health Association Standard Methods Preparation Of Materials Agar Plate Count Gravimetric Samples For The Agar Plate Methods Simplified Procedure For Making Bacteria Counts Chapter 4 Agar Plate Counts On Special Products Butter Cheese Cheese Spreads Materials Of Pasty Consistency And Fruits Condensed Milk Cream Evaporated Milk Granulated Materials Ice Cream Powdered Materials Chapter 5 Determination Of Special Types Of Organisms Acidophilus Brucella Coliform Group Pathogenic Streptococci Protein Digesting Bacteria Ropy Milk Organisms Sporogenes Test Thermoduric And Thermophilic Bacteria Chapter 6 Determination Of Sanitization Of Utensils And Equipment Bacterial Counts Of Containers Tests For Sanitary Condition Of Equipment Chapter 7 Direct Microscopic Examination Of Dairy Products Market Milk Other Dairy Products Chapter 8 Detection Of Mastitis Black Cloth Or Strip Cup Test Bromthymol Blue Test Thybromol Test Catalase Test Field Test For Chlorides Quantitative Test For Chlorides Direct Microscopic Test Hotis Test Whiteside Test Chapter 9 Reduction Tests Methylene Blue Test Modification Of The Methylene Blue Technic Resazurin Test Chapter 10 Special Culture Propagation Propagation Of Butter Cultures In The Bacteriological Laboratory Starter Making Chapter 11 Determination Of Yeasts And Molds Determination In Butter Parson S Method For Visual Demonstration Of Mold In Cream Widlman Method Of Detecting Mold In Butter Mold Mycelia In Butter Practical Determination Of The Keeping Quality Of Butter Determination Of Yeasts And Mold In Soft Cheeses Microbial Control Of Parchment Wrappers And Liners Part Iii Chemical Control Methods For Dairy Products Chapter 12 Collection And Care Of Samples Milk And Cream Composite Milk Samples Ice Cream Mix And Ice Cream Butter Cheese Dry Milk Evaporated Milk Condensed Milk Chapter 13 Babcock Test For Fat Babcock Test For Fat In Milk Babcock Test For Fat In Homogenized Milk Modified Babcock Test For Fat In Homogenized Milk Babcock Test For Fat In Cream Tests For Fat In Skim Milk Or Buttermilk Pennsylvania Test For Fat In Chocolate Milk Or Drink Modified Babcock

Tests For Milk Fat In Ice Cream And Ice Cream Mix Modified Pennsylvania Test For Fat In Ice Cream And Ice Cream Mix
Borden Calibration Of Babcock Glassware Chapter 14 Roesse Gottlieb Fat Determination Mojonnier Tester Milk Skim Milk
Buttermilk And Whey Cream Ice Cream Evaporated Milk Condensed Buttermilk And Unsweetened Condensed Milk
Sweetened Condensed Milk Butter Cheese Malted Milk Chocolate And Cocoa Dry Skim Milk Buttermilk Powder And Whole
Milk Powder Causes For High And Low Fat Tests Liquid Eggs Frozen Eggs And Dried Eggs Chapter 15 Gerber Test For Fat
Milk Plain Or Homogenized Skim Milk And Buttermilk Chocolate Milk And Chocolate Drink Cream Ice Cream And Ice Cream
Mix Chapter 16 Mojonnier Determination Of Total Solids Milk Skim Milk Buttermilk And Whey Cream Ice Cream
Unsweetened Condensed Milk And Condensed Buttermilk Sweetened Condensed Milk Butter Cheese Soft Cheeses Malted
Milk Chocolate And Cocoa Dry Milk Powder Whole Milk Powder And Buttermilk Powder Egg Yolk Gelatin Causes For High
And Low Total Solids Tests Chapter 17 Total Solids Determination Without Mojonnier Equipment Milk Skim Milk Buttermilk
And Whey Dried Milk Cheese Chapter 18 Moisture Salt And Fat Determination In Butter And Cheese Butter Cheese Chapter
19 Titratable Acidity Milk And Cream Skim Milk And Buttermilk Ice Cream And Ice Cream Mix Sherberts And Ices
Condensed Milk Dry Whole Milk Non Fat Dry Milk Solids Sour Or Ripened Cream And Starter Butter Cream Cheese Chapter
20 Hydrogen Ion Determination Theory Colorimetric Method Of Ph Measurements Potentiometric Method Of Measuring Ph
Oxidation Reduction Potential Measurements Chapter 21 Phosphatase Test For Pasteurization Control Gilcreas Method
Scharer Methods General Precautions In Interpreting Phosphatase Tests Sanders And Sager Method Chapter 22 Neutralizer
Detection Hankinson And Anderson Method Ph Method Part Iv Physical Control Methods For Dairy Products Chapter 23
Specific Gravity Determination Of Milk Lactometer Method Conventional Lactometer Method Sharp And Hart Modification
The Westphal Balance Detecting Adulterated Milk Watering Skimming Chapter 24 Determination Of Added Water Cryoscopic
Method Acetic Serum Method Sour Serum Method Copper Serum Method Chapter 25 Sediment Tests Milk As Received From
Farm Milk After Processing In Final Consumer Package Fresh Fluid Cream In Final Consumer Package Sweet Cream As
Received Dry Whole Milk Non Fat Dry Milk Solids Sweetened Condensed Milk Plain Or Superheated Condensed Milk Sour
Cream American Butter Institute Methods Butter American Butter Institute Method Butter Borax Method Ice Cream And Ice
Cream Mix Cheese Sugar Salt Stabilizers Chapter 26 Cream Volume Determination Milk Industry Foundation Method Milk
Bottle Gage Method Plant Method Burette Method Chapter 27 Curd Tension Determination American Dairy Science
Association Method Chapter 28 Viscosity Determination Of Dairy Products Borden Method For Cream Babcock Method
Saybolt Viscosimeter Method Pipette Method Falling Ball Method For Sweetened Condensed Milk Chapter 29
Homogenization Efficiency Determination Determination Of The Usphs Index Of Homogenized Milk Microscopic Method Part
V Miscellaneous And Special Tests Of Dairy Products Chapter 30 Miscellaneous Tests Brom Thymol Blue Test Chloride Test
Blood In Milk Alcohol Test For Determining Coagulability Of Milk Catalase Test For Butter Detection Of Coloring Matter

Copper Determination In Milk Diacetyl And Acetylmethylcarbinol Acetoin Determination In Butter And Butter Starters
Differential Of Oleomargarine Butter And Renovated Butter Egg Yolk Determination In Dairy Products Gelatin Detection In
Dairy Products Heated Milk Over 172 F Detection Lactic Acid Determination In Milk Oiling Off Test For Cream Preservative
Detection Solubility Index Of Dry Whole Milk Solubility Index Of Non Fat Dry Milk Solids Stiffness And Stability
Determination Of Whipped Cream Sucrose And Lactose Simultaneous Determinations In Dairy Products Vitamin C
Determination In Dairy Products Part Vi Microbiological Chemical And Physical Tests For Non Dairy Products Chapter 31
Chemical Control Procedures For Washing And Sterilizing Solutions And Brine Total Hardness Of Water Determination Of
Strength Of Washing Solutions Determination Of Strength Of Washing Powders Phosphoric Acid Determination
Polyphosphate Determination In The Presence Of One Another Alkyl Benzene Sulfonate Determination Chlorine Solution
Strength Determination Of Strength Of Quaternary Ammonium Solutions Testing Brines For Purity Strength And Corrosion
Inhibitor Chapter 32 Physical Tests Applied To Glass Milk Bottles Discussion Capacity Measurement Annealing Test
Hydrostatic Internal Pressure Test Thermal Shock Test Impact Test Chapter 33 Sugar Syrup Tests Cane Sugar Syrup Maple
Syrup Chapter 34 Gelatin Examination Water Absorption Property Rate Of Solution Organoleptic Examination Moisture
Determination Ash Determination Ph Value Determination Acidity Determination Gel Strength Determination Viscosity
Determination Chapter 35 Vanilla Flavor Tests Specific Gravity Alcohol Content Gravimetric Test For Vanillin And Coumarin
Colorimetric Method For Vanillin Mojonnier Method For Vanillin Lead Number Total Solids Quality Of Vanilla Flavor Chapter
36 Chocolate And Cocoa Testing Moisture Test Total Ash Soluble And Insoluble Ash Alkalinity Of Total Ash Detection Of
Alkali Percentage Of Cocoa Butter Test For Adulteration Of Cocoa With Shells Fibers Carbon Foreign Starches And Dyes Test
For Fineness Bacteriological Analysis Of Chocolate Products Chapter 37 Fruit Tests Canned Fruit Grades Determination Of
Drained Weight Determination Of Syrup Concentration Detection Of Chemical Preservatives Determination Of Total Solids
Microscopic Examination For Bacteria Yeasts And Molds Chapter 38 Tin Determinations Determination Of Tin Thickness On
Tin Plant Cans Determination Of The Porosity Of Tin Coatings On Steel Chapter 39 Biochemical Oxygen Demand
Determination Bod Test Part Vii Preparation Of Media And Reagents Chapter 40 Culture Media Hydrogen Ion Determination
Standard Nutrient Agar Media For Hemolytic Streptococci Media For The Determination Of Coliform Types Lactose Broth
Potato Dextrose Agar Tomato Juice Agar Tributyrin Agar Trypsin Digest Agar Modified Whey Agar Yeast Dextrose Agar Bacto
Nutritive Caseinate Agar Skim Milk Nutrient Agar Burri Medium Buttered Phosphate Stock Solution Litmus Milk Chapter 41
Stains Acid Stain For Beed Smears Differential Color Stain Gram Stain Loeffler S Modified Methylene Blue Stain Modified
Newman Lampert Stain Chapter 42 Standard Solutions Preparation Of Standard Solutions Hydrochloric Acid Solutions
Iodine Solution Tenth Normal Molybdate Solution For Phosphorus Determination Potassium Acid Phthalate Solution Tenth
Normal Potassium Dichromate Solution Tenth Normal Potassium Permanganate Solution Tenth Normal Silver Nitrate

Solution Tenth Normal Silver Nitrate Solution Sodium Chloride Solution Tenth Normal Sodium Hydroxide Solution Sodium Oxalate Solution Tenth Normal Sodium Thiosulfate Tenth Normal Sulfuric Acid Solutions Chapter 43 Indicators And Reagents Indicators Reagents Appendix Conversion Tables Length Area Mass Volume Fluid Measures Volume And Capacity Dry Measures Pressure Energy Avoirdupois Weights Force Metric Weights And Measures Troy Weights Apothecaries Weights Avoirdupois Weight Table For Computing Pounds Of Milk From Cases And Cans Bae Equivalents Comparisons Of Thermometer Scales Baume Conversion Tables Engineering Definition Of Chemical Terms International Atomic Weights 1941 Boiling Point Of Some Liquids At The Pressure Of The Atmosphere Pearson Square Method For Standardizing Milk And Cream Table For Correcting For Quevenne Lactometer Reading According To Temperature Table For Determining Total Solids In Milk From Any Given Specific Gravity And Percentage Of Fat Percentage Of Total Solids In Milk Volume Of Ammonia Gas Cubic Feet That Must Be Pumped Per Minute To Produce 1 Ton Of Refrigeration In 24 Hours Weight Of Ammonia Needed In A System Temperature Of Saturated Steam At Varying Pressures Logarithmic Table Examination Of Plant Products Daily Plant Operating Record First Aid Suggestions Antidotes Of Poisons Ice Cream Calculating The Mix The Serum Point Method Of Proportioning Batches Serum Point Method Simplified The Balance Method Of Proportioning Ice Cream Mixes Check And Balance Method Of Mix Proportioning Simplifying The Pearson Square Method Ice Cream Freezing The Mix Amount Of Water And Ice At Various Temperatures In Ice Cream Containing 12% Fat 10% Serum Solids And 14% Sugar Calculations Of The Freezing Point Of Ice Cream Mixes Freezing Point Lowering Of Cane Sugar Solutions Overrun Table Ice Cream Mix Table Of Sugar Common Sugar Or Milk Sugar Solutions Neutralizing Value Of Alkalis In Standardizing Acidity Of Cream Or Mixes Solid Carbon Dioxide Required In Single Service Ice Cream Cartons Winter Weather Summer Weather Legal Standards Usphs Definitions Federal Standards For Butter Definitions And Standards Of Identity Fill Of Container Us Food And Drug Administration Table Of Legal Standards For Milk Products By States Properties Of Dairy And Related Products Analysis Of Cow S Milk By Different Analysts Average Chemical Composition Of More Than 5000 Analysis Of Milk At The New York State Agricultural Experiment Station Geneva Showing Ratio Of Solids Not Fat In Average Milk Of Different Breeds Specific Heats Of Milk And Cream Ratio Of Fats To Solids Not Fat In Milk Of Various Fat Percentages Chlorides In Milk Specific Heat Of Milk And Milk Derivatives Acidity Of Fresh Cream Water Fat And Solids Not Fat Content Of Different Dairy Products Derived From A Certain Whole Milk In Percentages Approximate Weight Per Gallon Of Milk An Cream At Various Temperatures Weight Of Milk Products According To Us Department Of Agriculture Approximately At A Temperature Of 68 F Weights Per Gallon Of Fruits And Syrup Average Composition And Weights Per Gallon Of Ingredients Used In Ice Cream Mix Amounts Of Nutrients In A Pound Of Milk As Compared With A Pound Of Meat Bread And Other Food Products Amount Of Nutrient Materials In Various Dairy Products *Testing Milk and Its Products* Edward Holyoke Farrington,Fritz Wilhelm Woll,1899 **Laboratory Manual** Milk Industry Foundation (U.S.),1949 Testing Milk and Its

Products Edward Holyoke Farrington, Fritz Wilhelm Woll, 1930 Testing Milk and Its Products Edward Holyoke Farrington, Fritz Wilhelm Woll, 1928 Laboratory Manual of Milk Testing Manoj Kumar, 2025-10-10 Laboratory manual of milk testing provides a practical guide to the methods and procedures used for testing milk quality in dairy laboratories and field conditions It covers both basic tests such as sensory evaluation temperature density fat content solids not fat and adulteration detection and advanced tests such as microbial quality somatic cell count and antibiotic residue detection Outlines Objectives of milk testing ensuring safety quality and fair trade Sampling techniques correct collection handling and preservation of milk samples Chemical tests determination of fat protein acidity and adulterants Physical tests density freezing point and organoleptic examination Microbiological tests standard plate count coliform count and hygiene indicators Instrumental methods use of electronic milk analysers and infrared spectroscopy Interpretation of results standards as per regulatory guidelines e g FSSAI BIS Codex This manual is intended for use by dairy professionals students milk collection staff and quality control personnel serving as a ready reference to ensure safe high quality milk from farm to consumer

Laboratory Manual International Association of Milk Dealers, 1933 **Laboratory Manual**, 1936 *Testing Milk and Its Products* Edward Holyoke Farrington, Fritz Wilhelm Woll, 1900 **Laboratory Manual: Methods of Analysis of Milk and Its Products** ABC, 2024 Testing Milk and Its Products - A Manual for Dairy Students, Creamery and Cheese Factory Operators, Food Chemists, and Dairy Farmers E. H. Farrington, 2009-03-04 Many of the earliest books particularly those dating back to the 1900s and before are now extremely scarce and increasingly expensive We are republishing these classic works in affordable high quality modern editions using the original text and artwork **Testing Milk and Its Products** E. H. Farrington, 2017-10-13 Excerpt from *Testing Milk and Its Products A Manual for Dairy Students Creamery and Cheese Factory Operators and Dairy Farmers* The need of a rapid accurate and inexpensive method of determining the amount of butter fat in milk and other dairy products became more and more apparent in this country and abroad with the progress of the dairy industry and especially with the growth of the factory system of butter and cheese making during the last few decades SO long as each farmer made his own butter and sold it to private customers or at the village grocery it was not a matter of much importance to others whether the milk produced by his cows was rich or poor But as creameries and cheese factories multiplied and farmers in the dairy sections of our country became to a large extent patrons of one or the other of these a system of equitable payment for the milk or cream delivered became a vital question About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

Laboratory manual : methods of analysis of milk and its products, 1949 *Laboratory Manual of Dairy Analysis* H. Droop Richmond, 2004 This Book Is Intended To Contain Working Directions For The Analysis Of Milk And Dairy Products The Estimation Of All Constituents Of Diagnostic Value Is Shortly Described In Detail And Is In Many Cases Illustrated By Photographs Of Chemists Actually Carrying Out The Determination A Chapter On The Application Of Analysis Of The Solution Of Problems Usually Placed Before The Chemist Is Included And A Very Short Summary Of The Composition Of Milk And Its Products Is Given In The Appendix The Composition And Preparation Of The Various Solution Is Detailed This Work Will Afford Assistance To Analysts Health Officers Dairy Students And Those Engaged In The Supervision Of Dairies With This Object In View The More Simple Tests Have Been Described In A Manner Which Will Render Their Working By Persons Other Than Chemists Possible Contents Chapter 1 Introduction Gives A Summary Of The Constituents Of Milk And Their Properties The Composition Of Milk And Milk Products Chapter 2 The Analysis Of Milk Methods For The Determination Of Specific Gravity Total Solids Ash Mineral Constituents Acidity Fat Both Volumetric And Gravimetric Milk Sugar Proteins And Freezing Point Are Discussed Chapter 3 The Analysis Of Milk Products The Methods Of Analysis Of Skim Milk Butter Milk Whey Sterilised Milk Condensed Milk Sour Milk And Milk Powder Are Described Chapter 4 The Application Of Analysis Treats Of The Detection Of Adulteration And Of Preservatives And The Solution Of The Various Problems That Confront The Dairy Analyst Chapter 5 The Analysis Of Butter The Various Methods Of Analysis Of Butter And Butter Fat And Their Application To The Detection Of Adulteration And To Butter Making Are Described Chapter 6 The Analysis Of Cheese A Similar Chapter Devoted To Cheese Tables For Calculations Appendix Preparation Of Standard Solutions Addendum Tables Of Logarithms And Anti Logarithms *A Laboratory Manual for Milk Analysis and Control* Glenn C. Holm, Iowa State College. Department of Veterinary Hygiene, 1935 *Analytical Methods for Milk and Milk Products* Megh R. Goyal, N. Veena, Santosh Kumar Mishra, 2024-02-20 Here is a new three volume set that 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 presents the main analytical techniques and methodologies and their application to the compounds involved in nutritional and technological quality of milk and milk products It covers the sampling methods and chemical analysis of milk highlighting the standard methods used for calibration of different glassware sampling procedures of milk and milk products and the physicochemical and compositional aspects and assessment of the quality of raw milk intended for processing and manufacturing The book describes the compositional analysis of frozen and fat rich products including the physicochemical and compositional analysis of dairy products that include cream butter butter oil clarified fat ghee ice cream and frozen desserts Each of the laboratory exercises includes an introduction objective principle of method chemicals and apparatus required sample preparation experimentation data collection sheet and calculations and resource materials The other volumes are Volume 2

Physicochemical Analysis of Concentrated Coagulated and Fermented Products Volume 3 Microbiological Analysis Isolation and Characterization Together these three volumes are a complete and thorough reference on analytical methods for milk and milk products **A Manual for Dairy Testing** ,1976 *A Laboratory Manual of Milk Inspection* Amin Chand Aggarwala,Radhey Mohan Sharma,1961 Milk, cheese and butter, a practical handbook John Oliver (principal of the Western dairy inst.),1894 **Manuals of Food Quality Control** Food and Agriculture Organization of the United Nations,1986-01-01

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Table of Contents Milk Analysis Manual

1. Understanding the eBook Milk Analysis Manual
 - The Rise of Digital Reading Milk Analysis Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Milk Analysis Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Milk Analysis Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Milk Analysis Manual
 - Personalized Recommendations
 - Milk Analysis Manual User Reviews and Ratings
 - Milk Analysis Manual and Bestseller Lists
5. Accessing Milk Analysis Manual Free and Paid eBooks
 - Milk Analysis Manual Public Domain eBooks

- Milk Analysis Manual eBook Subscription Services
- Milk Analysis Manual Budget-Friendly Options
- 6. Navigating Milk Analysis Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Milk Analysis Manual Compatibility with Devices
 - Milk Analysis Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Milk Analysis Manual
 - Highlighting and Note-Taking Milk Analysis Manual
 - Interactive Elements Milk Analysis Manual
- 8. Staying Engaged with Milk Analysis Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Milk Analysis Manual
- 9. Balancing eBooks and Physical Books Milk Analysis Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Milk Analysis Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Milk Analysis Manual
 - Setting Reading Goals Milk Analysis Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Milk Analysis Manual
 - Fact-Checking eBook Content of Milk Analysis Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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