



**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  
2016**

# Milk Analysis Manual

**Kamal Gandhi**



## **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

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**Milk and Its Products** Edward Holyoke Farrington, Fritz Wilhelm Woll, 1928 **Laboratory Manual** Milk Industry Foundation (U.S.), 1949 **Laboratory Manual**, 1936 **Laboratory Manual: Methods of Analysis of Milk and Its Products** ABC, 2024 Testing Milk and Its Products Edward Holyoke Farrington, Fritz Wilhelm Woll, 1900 **Testing Milk and Its Products - A Manual for Dairy Students, Creamery and Cheese Factory Operators, Food Chemists, and Dairy Farmers** Edward Holyoke Farrington, 2009-09

PREFACE The present volume is intended for the use of dairy students factory operators dairymen food chemists and others interested in the testing or analysis of milk and its products The subject has been largely treated in a popular manner accuracy and clearness of statement and systematic arrangement of the subject matter have however been constantly kept in mind The aim has been to make the presentation intelligible to students with now further training than a common school education Complete directions for making tests of milk and other dairy products are given difficulties which the beginner may meet with are considered in detail and suggestions offered for avoiding them This early work is a detailed study on the subject with much of the information being useful and practical today Many of the earliest books particularly those dating back to the 1900 s and before are now extremely scarce and increasingly expensive We are republishing these classic works in aff A Laboratory Manual for Milk Analysis and Control Glenn C. Holm, Iowa State College. Department of Veterinary Hygiene, 1935 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 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](http://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 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 **A Manual for Dairy Testing** ,1976

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 **Handbook On Analysis Of Milk: Chemical And Microbiological Analysis Of Liquid Milk Textbook Library Edition** Srivastava M.K,2010 **A Laboratory Manual on Analysis of Milk Products** Kamal Gandhi,2018 *A Laboratory Handbook for the Analysis of Milk, Butter and Cheese* James Rittenhouse Evans,1905 **Laboratory Manual, Methods of Analysis of Milk and Its Products** Laboratory manual, **LABORATORY HANDBOOK FOR THE ANALYSIS OF MILK, BUTTER AND CHEESE.** JAMES RITTENHOUSE. EVANS,2025

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