CHEMICAL AND PHYSICAL ANALYSIS OF MILK, CONDENSED MILK, AND INFANTS' MILK-FOODS

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Chemical and Physical Analysis of Milk, Condensed Milk, and Infants' Milk-Foods by Nicholas Gerber

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NICHOLAS GERBER

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Trieste

CHEMICAL AND PHYSICAL ANALYSIS

—OF—

MILK, CONDENSED MILK,

—AND—

INFANTS' MILK-FOODS,

WITH SPECIAL REGARD TO

HYGIENE AND SANITARY MILK INSPECTION.

A Laboratory Guide, developed from Practical Experience,

INTENDED FOR

CHEMISTS, PHYSICIANS, SANITARIANS, STUDENTS, ETC.

By Dr. NICHOLAS GERBER,

Manager of the American-Swiss Milk Product Company (Limited) in New York; Member of the Chemical Societies of Berlin, New York, Paris, etc.

Translated from the Revised German Edition, and Edited by

Dr. HERMANN ENDEMANN,

Editor of the Journal of the American Chemical Society; Member of the Chemical Societies of Berlin, New York, etc., etc.

ILLUSTRATED BY 19 PLATES.

NEW YORK, 1882.

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EDITOR'S PREFACE.

In preparing this book for the English-speaking public, the undersigned desires to state that he has undertaken this task for the purpose of supplying a long-felt want. Most books published of late contain merely a collection of all the methods of analysis, or the selection of a number, put side by side without criticism.

The book in its present shape is a laboratory guide, which enables even beginners, and all such who cannot make the subject of milk analysis a speciality, to cope with this otherwise complicated task.

The selection of the proper method of analysis is taken off their hands and has been supplied by a man of practical experience, who has for many years made this subject a specialty.

Even chemists will find this book valuable, the more so as they are the best able to judge the advantages derived from the proper selection of the method adapted for the execution of an analysis.

The original has been carefully revised and many of the plates which illustrate the work have been substituted by better ones taken from the best publications on this subject, while others not contained in the original have been added.

H. ENDEMANN, Ph.D.

New York City, January, 1882.

PREFACE.

The undersigned has been engaged, scientifically and practically, in the dairy industry in all its branches for a number of years, and thus has had, frequently, occasion to seriously feel the want of a uniform method of analysis for milk and its products, which would not only satisfy practical wants, but would also possess scientific accuracy.

The author has made it his task to present in this small volume a short and exact method of analysis for the examination of the various milks and infants' milk foods, and hopes to soon complete his undertaking by the issue of a similar volume which shall comprise the examination of the other milk products and such other substances as are employed in the dairy industry.

As may be seen by the contents, undersigned has not endeavored to criticise the various older methods, as yet generally in use, as this would have been beyond the range of his self-imposed task.

Moreover, there is no want of such books. Undersigned therefore refers to those previously published by Vieth, Radenhausen and himself.

It is a peculiar fact, that even in the latest chemical, medical and pharmaceutical works, old and abandoned methods are continually republished, the authors considering it apparently unnecessary to test them for their reliability.

Likewise, in the adducing of average figures regarding the composition of milk, these authors seem to be prepossessed in favor of the oldest and least exact investigations, while they neglect the more exact and, therefore, more valuable examinations of the present period.

This copying without examination (book manufacturing) is especially dangerous in analytical chemistry, and more so if the results must stand test before a court of justice, which in examinations of this kind is frequently required.

The position of an expert who has employed acknowledged inaccurate methods for his examination, is certainly not an enviable one.

The author of this small volume has therefore collected therein, for the first time, those methods which are acknowledged as being the best for scientific and practical purposes.

They excel the methods known before 1877.

1st. For their greater accuracy.

2d. For greater simplicity.

3d. For cheapness and economy of time.

The views expressed in this book no doubt may be modified in time, and undersigned will, therefore, at all times, be pleased to receive suggestions from others.

DR. NICHOLAS GERBER,

Manager of the American Swiss Milk Product Co. (Limited),

New York City.

LITTLE FALLS, N. Y., January, 1882.

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