

Available for Research—

Pure Proteins and Vitamine Products

MILK PROTEINS

The preparation of materials, of highest purity, for research studies, is so costly and involves such a loss of intellectual skill, this service is best rendered by American industrial laboratories, who specialize in such work.

Through years of experience in the laboratories of Osborne & Mendel (Conn. Expt. Station), we now produce the two chief proteins of milk, in state of very high purity.

Casein and Lactalbumin are prepared from fresh milk, which is the only way to obtain either one of these proteins, as pure substances.

“Casein-Harris” shows the following average analysis:

Moisture	10.73	Casein (N x 6.38)	87.09
Ash59	Ether-soluble20
(Calcium, trace.) Nitrogen	13.66	Nitrogen; water, fat, ash-free	15.44

(cf.—Osborne & Harris, Jr. Am. Chem. Soc., 25-IV, 346)

“Lactalbumin-Harris” shows highest nitrogen content, very low ash and the average analysis of the purest specimens of this protein.

Both of these proteins are free from all vitamins.

YEAST AND ITS VITAMINES

We claim to prepare the purest specimens of washed and dried yeast cells, available anywhere, for researches of precision.

Brewers' Yeast-Harris (pasteurized powder), is prepared from a pure culture of fermentative yeast. The yeast cells are thoroughly washed with pure water to remove extraneous, soluble matter from its culture medium. The cells are quickly dried at temperature, just high enough to pasteurize the cells and to stop fermentation properties.

It is offered for chemical, nutrition and clinical purposes, where a pure yeast, with a known content of vitamine-B (F. & G) is desired.

CONCENTRATES OF VITAMINE-B (F & G)

Concentrated preparations from this yeast, containing Vitamine-B complex (F. & G), are also available for investigations. They contain more vitamine in proportion to total nitrogen content, than the whole yeast, and often serve such purposes in feeding experiments.

We also offer vitamins F. & G—“adsorbed” on Fuller's earth—free from many extraneous substances of the whole yeast, as a “starting material” for further researches on vitamine-B complex.

“Autoclaved Yeast” is also offered, containing the anti-pellagric G vitamine (heat-stable) and free from anti-neuritic Vitamine-F, which is heat-labile. This product is standardized by the white rat method and growth charts are available with it.

THE HARRIS LABORATORIES

Tuckahoe :: NEW YORK

McGraw-Hill

has just published

— an introductory botany for
elementary courses —

ELEMENTS OF PLANT SCIENCE

By

Charles Joseph Chamberlain

Professor of Botany, The University of Chicago

394 pages, 5½ x 8, 321 illustrations, \$1.90

THIS textbook covers the fundamentals of botany, in a treatment basic and thorough enough to serve as a beginning for more specialized study, yet with a general undertone adapted to the needs of the lay or student reader who requires only enough botany for a cultural appreciation of plant life and its functions.

The book is in two parts which can be used separately or consecutively. Part I deals with the leaf, stem, root, flower, fruit and seed of flowering plants, Part II presents the development of the plant kingdom, from the lowest forms up to the highest.

While the word "evolution" is not used in the book, evolution is taught throughout, and Part II especially is aimed to give the student such first hand knowledge of plants as is needed for an intelligent understanding of present-day problems. The facts are presented. Theories which rise and fall are avoided.

The text is intended to be accompanied by laboratory work, and the laboratory directions have been planned to lighten as far as possible the work of the teacher in recognizing, securing and preserving material.

Both text and laboratory directions have been planned so as to make conferences effective. A careful reading of the text, a thorough study of material in the laboratory, and frequent conferences should make lectures unnecessary.

Send for a copy on approval

McGRAW-HILL BOOK COMPANY, Inc.

Penn Terminal Building

370 Seventh Avenue

New York