PURE PROTEINS OF MILK VS. CRUDE CASEIN

THE PURE PROTEINS of milk are so difficult and expensive to prepare, that only too often the crude products are inadvisedly used in researches of importance. One "crude essential element" of the diet may invalidate all other good features of a costly investigation, thereby disqualifying the deduction of the author.

In recent journals such papers have appeared.

"Crude Casein" of the usual industrial type represents simply an acid or rennet curd and is purely "Glorified Pot Cheese," containing unknown products of milk—in unknown amounts.

FOR RESEARCHES OF PRECISION

"Casein - Harris" and "Lactalbumin - Harris" have been prepared by Osborne & Mendel (Yale Univ. & Conn. Expt. Sta.), we have learned how to prepare these two proteins in state of highest molecular purity.

Each protein contains highest nitrogen content, lowest mineral ash, freedom from each other and other substances of cow's milk.

They are made directly from fresh skim milk, which is the only possible way to prepare them in high purity.

Assayed upon growing white rats. Free from all vitamins.

<table>
<thead>
<tr>
<th>AVERAGE ANALYSIS OF CASEIN—HARRIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moisture .................................. 10.73</td>
</tr>
<tr>
<td>Ash ........................................... .59</td>
</tr>
<tr>
<td>Calcium ..................................... Trace</td>
</tr>
<tr>
<td>Nitrogen ................................... 13.66</td>
</tr>
<tr>
<td>Casein (N x 6.38) ...................... 87.09</td>
</tr>
<tr>
<td>Ether-soluble ......................... .20</td>
</tr>
<tr>
<td>Nitrogen; water, fat, ash-free .. 15.44</td>
</tr>
</tbody>
</table>

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

Also Purest powdered Medicinal Yeast (standardized for Vitamines "B" (F & G) and Concentrates from this yeast.

Also Vitamine factors, pure food mixes, deficient foods, salt mix and methods for vitamine assays upon the Norwegian white rat.

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