Whey Protein Phospholipid Concentrate (WPPC) Standard

Product Definition

Whey Protein Phospholipid Concentrate (WPPC) is a product obtained through the microfiltration of whey which concentrates whey proteins and whey phospholipids. The acidity of WPPC may be adjusted by the addition of safe and suitable pH adjusting ingredients.

Composition

<table>
<thead>
<tr>
<th>Classifications</th>
<th>Protein (dry basis)</th>
<th>Fat</th>
<th>Ash</th>
<th>Total Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPPC</td>
<td>Min. 50%</td>
<td>Min. 12%</td>
<td>Max. 8%</td>
<td>Max. 6%</td>
</tr>
</tbody>
</table>

Other Characteristics

- Scorched Particle Content: \( \leq 15.0 \text{ mg/25 gm} \)
- pH: \( 5.70 - 7.50 \)

Microbiological Analysis

- Standard Plate Count: \( \leq 30,000 \text{ cfu/g} \)
- Coliform: \( \leq 10 \text{ cfu/g} \)
- Salmonella: negative
- Yeast & Mold: \( \leq 100 \text{ cfu/g} \)

Methods of Analysis

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Reference Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein</td>
<td>Kjeldahl method: AOAC 991.20 (N x 6.38)</td>
</tr>
<tr>
<td>Fat</td>
<td>Mojonnier: AOAC 989.05</td>
</tr>
<tr>
<td>Ash</td>
<td>Oven at 550C: AOAC 942.05</td>
</tr>
<tr>
<td>Total Moisture</td>
<td>Vacuum oven: AOAC 925.45</td>
</tr>
</tbody>
</table>

Product Labeling

It is recommended that product be identified on the label as: “Whey Protein Phospholipid Concentrate.”

Alternate names could include: High Fat Whey Protein Concentrate.
**Product Applications and Functionality**

WPPC provides exceptional nutritive value for a wide variety of applications which include: ice-cream, frozen yogurt, beverages, salad dressings, process cheese, protein bars and infant formula.

**Storage & Shipping**
Product should be stored and shipped in a cool, dry environment with temperatures below 80°F and relative humidities below 65%. Stocks should be rotated and utilized within 1 - 2 yrs.

**Packaging**
Multiwall kraft bags with polyethylene inner liner or other suitable closed container – i.e., “tote bins,” etc.