

MIPRODAN[®] 40

Description

MIPRODAN[®] 40 Calcium Caseinate is a spray-dried pure milk protein manufactured from fresh pasteurized skimmed milk by acid precipitation of the casein, direct neutralization and spray-drying.

Chemical Specifications

| Protein (Nx6.38) d.m. | | 93.5 % |
|-----------------------|---------|--------|
| | as is | 88.0 % |
| Lactose | approx. | 0.2 % |
| Fat | approx. | 1.2 % |
| Ash | max. | 4.0 % |
| Moisture | max. | 6.0 % |
| | | |

Minerals

| Sodium | Na | approx. | 0.03 % |
|-----------|----|-------------|--------|
| Potassium | Κ | approx. | 0.25 % |
| Calcium | Ca | 1.0 - 1.6 % | |

Trace Elements

| Copper | Cu | max. | 4 ppm |
|---------|----|------|--------|
| Iron | Fe | max. | 20 ppm |
| Arsenic | As | max. | 1 ppm |
| Lead | Pb | max. | 1 ppm |
| | | | |

Physical Specifications

| pH (5% solution) | 6.6 - 7.1 | | |
|--------------------|-----------------------------|--------|--|
| Scorched particles | disc A | | |
| Bulk density | 0.4 - 0.6 g/cm ³ | | |
| Colour of powder | white | | |
| Flavour and odour | bland, milky | | |
| Solubility index | max. | 2.0 ml | |
| | | | |

Microbiological Specifications

| 6 | Total plate count | max. | 5,000/g |
|---|-------------------------------------|-----------|---------|
| 6 | Sulphite reducing clostridia spores | | |
| 6 | | max. | 10/g |
| 6 | Enterobacteriacea | e | < 1/g |
| 6 | Staphylococcus au | ureus | |
| 6 | coagulase + | absent in | 1 g |
| | Mould/yeast | max. | 20/g |
| | Salmonella | absent in | 125g |
| | | | |

Properties

- 1. Fully dispersible.
- 2. High viscosity, when used in fermented products.
- 3. Low flavour profile.

Applications

- 1. Imitation cheese.
- 2. Processed cheese.
- 3. Yoghurt, quark.
- 4. Bread, cakes.

Packaging

Paper bags with a polyethylene inner bag.

Storage

Store in closed bags under cool, dry conditions (below 25°C), away from strong odours.

Shelf Life

Minimum two years if kept under the prescribed storage conditions.

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