

# MIPRODAN<sup>®</sup> 40

## Description

*MIPRODAN<sup>®</sup>* 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 <sup>3</sup>		
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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