

Milk Protein Concentrate 4857



Milk Protein Concentrate 4857 from Fonterra is a spray dried milk protein concentrate manufactured by ultrafiltration of fresh skim milk. Milk Protein Concentrate 4857 has high protein content, excellent nutritional value and clean, milky flavour.

Product Characteristics

- > Excellent flavour
- > High level of bound calcium
- > Good heat stability
- > High nutritional value
- > High opacity in water

Suggested Uses

- > Cheese ingredient
- > Process and analogue cheese
- > Dairy based and nutritional beverages
- > Nutritional bars

Packaging

Multi-wall paper which incorporates a moisture barrier and contains the product within an inner polyethylene bag. No staples or metal fasteners are used.

| | |
|--------------|--------|
| Net weight | 20.0kg |
| Gross weight | 20.4kg |

Storage and Handling

Milk Protein Concentrates are hygroscopic and can absorb odours. Therefore adequate protection is essential. It is recommended that product is stored at temperatures below 25°C, relative humidity below 65% and in an odour free environment. Stocks should be used in rotation preferably within 24 months of manufacture.

Typical Compositional Analysis

The analysis results listed in this product bulletin are typical as measured on an "as is" basis. Refer to the selling specification for minimum and maximum limits by parameter.

| | |
|-----------------------------------|--------|
| Protein (N x 6.38) (g/100g) as is | 81.1 |
| Moisture (g/100g) | 5.7 |
| Fat (g/100g) | 1.5 |
| Total Carbohydrate* (g/100g) | 4.9 |
| Ash (g/100g) | 6.8 |
| Inhibitory substances (IU/ml) | <0.005 |

* Calculated by difference

Typical Nutritional Analysis

| | |
|---------------------------------|------|
| Energy (kJ/100g) | 1518 |
| Calories (kcal/100g) | 363 |
| Energy from fat (kJ/100g) | 56 |
| Calories from fat (kcal/100g) | 13 |
| Total Sugars (lactose) (g/100g) | 4.9 |
| Fibre (g/100g) | 0 |
| Cholesterol (mg/100g) | 55 |
| Saturated fat (g/100g) | 1.1 |
| Trans fat (g/100g) | 0.07 |
| Vitamin A (µg/100g) | <6 |
| Vitamin A (IU/100g) | <20 |
| Vitamin C (mg/100g) | <0.9 |
| Iron (mg/100g) | 0.5 |
| Sodium (mg/100g) | 90 |
| Calcium (mg/100g) | 2140 |

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Typical Physical Properties

| | |
|-----------------------------|----------------------|
| Colour | White to light cream |
| Flavour | Clean and milky |
| pH (5%at 20°C) | 7.1 |
| Bulk density (packed, g/mL) | 0.42 |
| Schrodered Particles (50g) | Disc A |

Typical Microbiological Analysis

| | |
|---------------------------------------|--------------|
| Aerobic Plate Count (cfu/g) | <10,000 |
| E.coli (/g) | Not Detected |
| Yeast and Mould (cfu/g) | <10 |
| Coagulase Positive Staphylococci (/g) | Not Detected |
| Listeria (/125g) | Absent |
| Salmonella (/750g) | Absent |

Quality Assurance

Strict quality control procedures are enforced during manufacture. The manufacturing environment is also subject to regular monitoring and control.

Final product is sampled and tested for chemical, sensory and microbial parameters using internationally recognised procedures.

During storage and shipment, precautions are taken to ensure that the product quality is maintained. Each package is identified, enabling trace back

Compliance

- > Kosher
- > Halal

Ingredients

- > Pasteurised skim milk

Suggested Labelling

Milk Protein Concentrate

Allergens: Contains Milk and Dairy products

Country regulations for product labelling vary. Fonterra advises customers that they need to check local regulations to determine the correct labelling of this ingredient