

# Milk Protein Concentrate 4861



**Milk Protein Concentrate 4861 from Fonterra is a spray dried milk protein concentrate manufactured by ultrafiltration of fresh skim milk. Milk Protein Concentrate 4861 has high protein content, excellent nutritional value and clean, milky flavour making it an ideal ingredient for nutritional products. This product also has a range of superior functional and textual properties compared to many other milk protein products.**

## Product Characteristics

- > Excellent solubility
- > Soluble in cold water
- > Clean flavour profile
- > Source of milk calcium
- > Excellent heat stability
- > High nutritional value
- > Moderate to high opacity in water
- > Low viscosity

## Suggested Uses

- > Cultured products
- > Nutrition bars
- > Dairy based and Nutritional beverages
- > Cheese milk extension
- > Enteral products

## 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	81.8
Moisture (g/100g)	5.8
Fat (g/100g)	1.4
Total Carbohydrate* (g/100g)	4.0
Ash (g/100g)	7.0
Inhibitory substances (IU/ml)	<0.005

\* Calculated by difference

## Typical Nutritional Analysis

Energy (kJ/100g)	1510
Calories (kcal/100g)	361
Energy from fat (kJ/100g)	52
Calories from fat (kcal/100g)	12
Total Sugars (lactose) (g/100g)	4.0
Fibre (g/100g)	0

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Cholesterol (mg/100g)	55
Saturated fat (g/100g)	1.0
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)	0.4
Sodium (mg/100g)	1290
Calcium (mg/100g)	1260

## Typical Physical Properties

Colour	White to light cream
Flavour	Clean and milky
pH (5%at 20°C)	7.0
Bulk density (packed, g/mL)	0.42
Schorched Particles (50g)	Disc A

## Typical Microbiological Analysis

Aerobic Plate Count (cfu/g)	<10,000
Coliforms (cfu/g)	<1
E.coli (/g)	Not Detected
Yeast and Moulds (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

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Ingredients by

