

Whey Protein Isolate 894

Instantised

PRODUCT BULLETIN

PB.022
Version 3.1006

NZMP Whey Protein Isolate 894 (also known as ALACEN™ 894) from Fonterra is an instantised whey protein isolate manufactured by cross flow micro-filtration (MF) and ultra-filtration (UF). Micro-filtration naturally isolates undenatured protein, providing a MF WPI product that is low in fat and high in protein. NZMP Whey Protein Isolate 894 is an undenatured, soluble whey protein with excellent dispersibility and solubility combined with excellent nutritive value. NZMP Whey Protein Isolate 894 is ideal for nutritional beverage powders that require spoon stirring.

PRODUCT CHARACTERISTICS

- Excellent nutritional value
- PDCAAS score of 1.00
- Excellent dispersibility and solubility
- Low lactose, low fat and low cholesterol
- Clean flavour
- Soluble over a wide pH range

SUGGESTED USES

- Nutritional powdered beverages

PACKAGING

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

Net Weight	20.0 kg
Gross Weight	20.4 kg

STORAGE AND HANDLING

Whey Protein Isolates 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 & maximum limits by parameter

Protein (N x 6.38) (g/100g) as is	90.4
Moisture (g/100g)	4.7
Fat (g/100g)	1.0
Total Carbohydrate (g/100g)	0.9
Ash (g/100g)	3.0
Inhibitory substances (IU/ml)	<0.005

TYPICAL NUTRITIONAL ANALYSIS

Energy (kJ/100g)	1,590
Calories (kcal/100g)	380
Energy from fat (kJ/100g)	37
Calories from fat (kcal/100g)	9
Total Sugars (lactose) (g/100g)	0.9
Fibre (g/100g)	0
Cholesterol (mg/100g)	5
Saturated fat (g/100g)	0.6
Trans fat (g/100g)	0.07
Vitamin A (µg/100g)	0
Vitamin A (IU/100g)	0
Vitamin C (mg/100g)	0
Iron (mg/100g)	0.6
Sodium (mg/100g)	130
Calcium (mg/100g)	460



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TYPICAL PHYSICAL PROPERTIES

Colour	White to light cream
Flavour	Clean
pH (5% at 20°C)	6.9
Bulk density (packed, g/mL)	0.34
Scorched particles (50g)	Disc A

TYPICAL MICROBIOLOGICAL ANALYSIS

Aerobic Plate Count (cfu/g)	<10,000
E. coli (/g)	Not Detected
Yeast & mould (cfu/g)	<10
Staph. coag. pos. (/g)	Not Detected
Salmonella (750g)	Absent
Listeria (25g)	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 traceback.

COMPLIANCE

- Halal

SUGGESTED LABELLING

Whey Protein Isolate, Soy lecithin.

Allergens: Contains Milk and Dairy products, Soy.

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

