# Whey Protein Concentrate 450 Instantised

### PRODUCT BULLETIN

PB.015 Version 6.1007

NZMP Whey Protein Concentrate 450 (also known as ALACEN<sup>™</sup> 450) from Fonterra is an instantised, soluble milk protein manufactured from fresh cheese whey using an ultra-filtration process. NZMP Whey Protein Concentrate 450 is ideal for dry mix beverage due to high nutritional value, excellent solubility throughout the pH range, and enhanced dispersibility.

## **PRODUCT CHARACTERISTICS**

- Excellent dispersibility
- Soluble over a wide pH range
- Excellent nutritional value
- Improved handling properties

## SUGGESTED USES

- Dry mix beverages
- Nutritional 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	20.0 kg
Gross Weight	20.4 kg

## STORAGE AND HANDLING

Whey Protein Concentrates are hygroscopic and can absorb odours. Therefore adequate protection is essential. It is recommended that product is stored at temperatures below  $25^{\circ}$ 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	79.8
Moisture (g/100g)	4.1
Fat (g/100g)	7.2
Total Carbohydrate (g/100g)	6.1
Ash (g/100g)	2.8
Inhibitory substances (IU/mI)	<0.005

### **TYPICAL NUTRITIONAL ANALYSIS**

Energy (kJ/100g)	1,730
Calories (kcal/100g)	415
Energy from fat (kJ/100g)	266
Calories from fat (kcal/100g)	64
Total Sugars (lactose) (g/100g)	6.1
Fibre (g/100g)	0
Cholesterol (mg/100g)	220
Saturated fat (g/100g)	5.1
Trans fat (g/100g)	0.4
Vitamin A (μg/100g)	23
Vitamin A (IU/100g)	76
Vitamin C (mg/100g)	0
Iron (mg/100g)	0.9
Sodium (mg/100g)	140
Calcium (mg/100g)	410





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## **TYPICAL PHYSICAL PROPERTIES**

Colour	Cream
Flavour	Clean
pH(5% at 20°C)	6.7
Bulk density (packed, g/mL)	0.40
Scorched particles (50g)	Disc A

### **TYPICAL MICROBIOLOGICAL ANALYSIS**

Aerobic Plate Count (cfu/g)	<30,000
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
- Kosher product is available on request and subject to availability

### SUGGESTED LABELLING

#### Whey Protein Concentrate and Sunflower Lecithin

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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