



**Ultralac® Prot 35 concentrate** is a native whey protein concentrate (WPC) produced from German whey by ultrafiltration and concentration. It is subject to permanent quality control according to German and EU legislation and customer requirements. It combines the highest biological value of proteins, combined with all essential amino acids and possesses important functional properties.

## APPLICATION ADVANTAGES

- Suitable as a replacement for whole milk, skimmed milk and other dairy ingredients
- Approximately 29 % higher biological value than milk protein
- Better process performance due to direct use without preprocessing
- Conservation of resources by using liquid products with positive sustainability management
- Possible saving of foaming- and gelling agents – depending on application
- Higher consumer acceptance of your product due to health claim declaration such as:
  - Proteins help maintain muscle mass\*
  - Proteins contribute to increase muscle mass\*
  - Proteins contribute to the maintenance of normal bones\*
- High protein content\*\*

\* if 12 % of the calorific value come from protein

\*\* if 20 % of the calorific value come from protein

## PRODUCT FEATURES

- Highest known biological nutritive value of proteins
- Contains all essential and semi essential amino acids
- High source of Arginine, Cysteine, Histidine and Tyrosine makes it perfect for clinical food
- Excellent and clear milk taste

## FUNCTIONAL PROPERTIES

- Great water and fat binding ability
- Low tendency to coagulation in the presence of organic and inorganic acids
- High solubility of > 80–90 % in pH ranges from 2–10
- Low viscosity while processing

## APPLICATIONS

- Ice cream industry
- Dairy products such as drinking yoghurt, spoonable yoghurt, etc.
- Chocolate, confectionery and bakery



## PACKAGING

- Tank truck up to 25.000 kg: made of stainless steel specifically for the transport of food

## NUTRITIONAL VALUES (PER 100 g)

- Energy 527 kJ / 126 kcal
- Protein (N x 6,25) 11,5 g
- Carbohydrate 18,3 g
- Fat 0,4 g
- Calcium 0,4 g
- Potassium 0,7 g
- Iron 0,1 mg
- Zinc 0,1 mg

## AMINO ACID CONTENT\* (PER 100 g)

- Cysteine + Cystine 0,22 g
- Histidine 0,26 g
- Isoleucine 0,85 g
- Leucine 1,48 g
- Lysine 1,38 g
- Methionine 0,23 g
- Tryptophan 0,21 g
- Tyrosine 0,32 g
- Valine 0,80 g

\*Monitoring as per detection level

## TRANSPORTATION/ DISTRIBUTION/STORAGE

- Optimum conditions are temperature  $\leq 6\text{ }^{\circ}\text{C}$
- Store dark, cold and optimally stirred in an environment free from foreign odours
- Shelf life of minimum 9 days after loading

## VITAMINS\* (TYPICAL VALUE PER 100 g)

- Vitamin A (Retinol)  $< 21\text{ }\mu\text{g}$
- Vitamin B1 (Thiamine) 0,11 mg
- Vitamin B2 (Riboflavin) 0,67 mg
- Vitamin B3 (Niacin)  $< 0,1\text{ mg}$
- Vitamin B5 (Pantothenic Acid) 2,05 mg
- Vitamin B6 (Pyridoxines) 0,12 mg
- Vitamin B8 (Biotin) 8,83  $\mu\text{g}$
- Vitamin B12 (Cyanocobalamin) 1,93  $\mu\text{g}$
- Vitamin C (Ascorbic Acid)  $< 0,5\text{ mg}$
- Vitamin D3 (Cholecalciferol)  $< 0,25\text{ }\mu\text{g}$
- Vitamin E ( $\alpha$ -Tocopherol)  $< 0,08\text{ mg}$
- Vitamin K1 (Phylloquinone)  $< 0,8\text{ }\mu\text{g}$

## ADDITIONAL INFORMATION

- Free from Pesticides\*
- Free from Dioxins\*
- Free from Heavy metals\*
- Free from Melamine\*
- Free from Cyanuric acid\*
- Free from Mould fungus poisons\*
- Free from Quaternary ammonium compound\*
- Fits the requirements of vegetarian food
- Kosher & Halal

