



Ultralac® Prot 35 is a native whey protein concentrate (WPC) produced from German whey by ultrafiltration, concentration and spray-drying. 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. For special requirements i. a. regarding heat stability or gelling ability Ultralac® Prot 35 is available as HD and/or HV version.

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
- 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 and infant food (wet blend processing)
- 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
- Very good adsorption properties

APPLICATIONS

- Infant- and clinical nutrition (wet blend processing)
- Chocolate, confectionery and bakery
- Dairy products such as drinking yoghurt, spoonable yoghurt, etc.
- Standardisation of product texture and protein content
- Ice cream industry



PACKAGING

- Small bag 25 kg: Paper bag with integrated, heat-sealed, blue High Care PE Liner
- Big bag 450–1.000 kg: Big bag with coated body. On customer demand variants with integrated PE Liner
- Silo truck 25.000 kg: Silo truck made of stainless steel specifically for the transport of food

NUTRITIONAL VALUES (PER 100 g)

- Energy 1.446/341 kcal
- Protein (N x 6,25) 33,5 g
- Carbohydrate 49,4 g
- Fat 1,0 g
- Salt 1,0 g
- Sodium 0,4 g
- Calcium 1,1 g
- Potassium 1,7 g
- Iron 0,3 mg
- Phosphor 0,8 mg
- Zinc 4,8 mg
- Iodine 1,1 mg

AMINO ACID CONTENT* (PER 100 g)

- Cysteine + Cystine 0,95 g
- Histidine 0,68 g
- Isoleucine 2,19 g
- Leucine 3,75 g
- Lysine 3,42 g
- Methionine 0,72 g
- Tryptophan 0,65 g
- Tyrosine 0,97 g
- Valine 2,05 g

*Monitoring as per detection level

TRANSPORTATION/ DISTRIBUTION/STORAGE

- Optimum conditions are temperature $\leq 25\text{ }^{\circ}\text{C}$ and relative humidity $\leq 65\%$
- Store closed in original bags under dry condition in an environment free of dust and pests
- Shelf life of minimum 18 months after production date

VITAMINS* (TYPICAL VALUE PER 100 g)

- Vitamin A (Retinol) $< 21\text{ }\mu\text{g}$
- Vitamin B1 (Thiamine) 0,22 mg
- Vitamin B2 (Riboflavin) 1,76 mg
- Vitamin B3 (Niacin) $< 0,1\text{ mg}$
- Vitamin B5 (Pantothenic Acid) 6,03 mg
- Vitamin B6 (Pyridoxines) 0,33 mg
- Vitamin B8 (Biotin) 17,2 μg
- Vitamin B12 (Cyanocobalamin) 5,08 μg
- Vitamin C (Ascorbic Acid) 4,97 mg
- Vitamin D3 (Cholecalciferol) 1,41 μg
- Vitamin E (α -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

