



FrieslandCampina 

Ingredients

## Hiprotal® Whey Protein 35

# product data sheet

A whey protein concentrate prepared from fresh whey, which meets infant formula quality standard.

### Product characteristics

Hiprotal Whey Protein 35 is a whey protein concentrate with 35% protein, obtained by ultrafiltration of fresh cheese whey. A significant amount of the minerals that should be present in final formula is provided by Hiprotal Whey Protein 35, thus less minerals need to be added. Hiprotal Whey Protein 35 has an amino acid pattern that is very suitable for infant formula. The year-round constant composition of Dutch milk is the basis for the consistent protein composition of this whey protein product.

### Application

Due to its high quality Hiprotal Whey Protein 35 is suitable as an ingredient for Infant Formula, Follow-on Formula and Growing-Up Milk, and helps to achieve the desired casein/whey protein ratio. FrieslandCampina Domo's production locations are dedicated to producing ingredients for infant formula. The relatively high level of protein in Hiprotal Whey Protein 35 creates the freedom to use other carbohydrates aside from lactose, such as maltodextrin, and to add carbohydrates at a later stage in the process. This facilitates flexibility, product differentiation and cost savings.

### Packaging

Hiprotal Whey Protein 35 is packaged in a multiple-layered paper bag with a polyethylene inner liner and a net content of 25 kg. The paper bags are palletised and wrapped to units of 1,000 kg. The product is also available in big bags (900 kg) and liquid deliveries.

### Shelf life

Products are best stored in original unopened packaging in clean, cool and dry conditions, away from direct sunlight and separated from strongly odorous materials.

**DOMO**<sup>®</sup>

This information is intended for industrial customers only and not intended for consumers.

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### Typical analysis\*

#### Chemical (in %)

Protein	35
Lactose	50.5
Fat	2.5
Ash (550°C)	6.5
Organic milk salts	2
Moisture	3.5
pH	6.0 - 6.8

#### Microbiological

Aerobic mesophilic count	max. 10,000 cfu/g
Enterobacteriaceae	absent in 3 x 1 g
Yeasts	max. 50 cfu/g
Moulds	max. 50 cfu/g
Presumptive Bacillus cereus	max. 100 cfu/g
Staphylococcus aureus	absent in 1 g
E. coli	absent in 1 g
Salmonella	absent in 1,500 g
Cronobacter spp.	absent in 30 x 10 g

#### Sensorial

Colour	creamy white
Taste / odour	neutral milky taste and odour

#### Nutritional (per 100 g)

Energy value	371 kcal (1572 kJ)
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#### Minerals (mg per 100 g)

Calcium	690
Sodium	410
Magnesium	105
Potassium	1,675
Chloride	1,040
Phosphorus	560

#### Amino acids composition (g/ 100 g protein)

Alanine	5.0
Arginine	2.5
Asparagine + asparic acid	11.1
Cystine	2.3
Glutamine + glutamic acid	18.4
Glycine	1.9
Histidine	1.8
Isoleucine	6.6
Leucine	10.8
Lysine	9.6
Methionine	2.0
Phenylalanine	3.2
Proline	5.9
Serine	5.1
Threonine	7.3
Tryptophan	1.8
Tyrosine	2.8
Valine	6.0

#### Micro nutrients (per 100 g)

Vitamin B1	0.3 mg
Vitamin B2	1.5 mg
Pantothenic acid	4 mg
Vitamin B6	0.4 mg
Vitamin B12	7.5 µg
Folates	0.3 mg
Biotin	22 µg
Choline	170 mg
Carnitine	21 mg
Selenium	18 µg
Iodine	0.2 mg

\* Please refer to the specifications for guaranteed limits.

Potential consumer benefits are not to be considered as health claims. They should be considered as potential leads that might be developed into health claims complying with the local legal requirements.

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