

Product Specification

Colostrum Basic Protein

Description

Colostrum Basic Protein powder from BioNatIn is a natural source of proteins, minerals and vitamins from Dutch cows. It is a freeze-dried powder with high nutritional values and a lot of bioactive proteins. CBP has a guaranteed 50% fraction profile between 1-30Kda.

Features

- Minimum of 50% [30Kda] Profile Fraction
- Free flowing powder
- High bioactivity
- No flavor or smell additives
- Freeze-dried
- White/light yellow colour/shiny particles

Application

- Functional food
- Health ingredient
- Feed
- Sporting ingredient
- Dry-mixing
- Wet mixing

Origin	The Netherlands	Allergens	Milk and lactose
Certification	IFS v7.1 GACC registered	Ingredients	Bovine Colostrum Milk Protein Powder
Compliance	Compliant with all relevant EU Regulations	Storage	Recommended storage is a temperature below 25°C, relative humidity below 65% and in an odour free environment.
Shelf life	24 months		

Packaging

There are two packing options.

- 15kg Multi-ply paper which incorporates a moisture barrier and contains the product within an inner polyethylene bag. No staplers or metal fasteners are used.
 - Net weight: 15kg
 - Gross weight: 15,2kg
- 5kg PE foil bags that are stored in a multilayered carton box. Each box contains 4 bags of 5kg.
 - Net weight: 20kg
 - Gross weight: 21,1kg
 - Typical packing dimension: 59x39x24cm

Nutritional information	Typical (Per 100g product)
Energy (kJ)	1600
Proteins (N x 6.38) as is	82
Fat (g)	2
Carbohydrates (g)	9
Fibre (g)	0
Ash (g)	3
Moisture (g)	5

Chemical	units	Min	Max	Reference Method
Total Protein	%	80.0	90.0	Kjeldahl
[1-30Kda] Fraction profile	%	50.0		SDS-PAGE
Immunoglobuline G	%	15	30	SRID
Fat	%		4.0	FTIR
Lactose	%		10	HPLC
Ash	%		3.0	10028
Antibiotics			Not Detected	Charm
Moisture	%		5.0	IRM
Nitrate	mg/kg		100.0	
Nitrite	mg/kg		2.0	

Microbiological	units	Min	Max	Reference Method
Aerobic Plate Count	cfu/g		1,000	ANAL-10196
Coliforms	cfu/g		10	ANAL-10378
E. Coli	cfu/g		Not detected	ANAL-10220
Enterobacteriaceae	cfu/g		10	ANAL-10440
Bacillus Cereus	cfu/g		10	ANAL-10379
Staphylococcus aureus	cfu/g		Not detected	ANAL-10225
Yeast and Moulds	cfu/g		50	ANAL-10165
Cronobacter	cfu/100g		Not detected	ANAL-10556
Salmonella	cfu/125g		Not detected	ANAL-10208
Listeria	cfu/25g		Not detected	ANAL-10498

Physical properties	units	Min	Max	Reference Method
Colour	Description	Creamish, white/yellow		BioNatIn
Flavour/Smell	Description	Typical		BioNatIn
Appearance	Description	Freeze dried powder		BioNatIn
Scorched particles	/50g		A	SMEDP 15.172
PH	Acidity	6,2	7,2	5% solution

Mineral analysis	units	Typical*
Calcium	mg/g	5,5
Copper	mg/g	0,0003
Iron	mg/g	0,005
Magnesium	mg/g	0,73
Potassium	mg/g	2,8
Selenium	mg/g	0,00004
Sodium	mg/g	1,1
Zinc	mg/g	0,038

Heavy Metals	units	Max	Reference Method
Lead	mg/kg	0,02	ICP-MS
Cadmium	mg/kg	0,25	ICP-MS
Arsenic	mg/kg	0,2	ICP-MS
Chromium	mg/kg	0,1	ICP-MS
Mercury	mg/kg	0,02	ICP-MS
Aflatoxine M1	µg/kg	0,5	ICP-MS
Melamine	mg/kg	0,15	ICP-MS