

Technical Product Data

FORTIGEL® B

Comprising FORTIGEL® B, FORTIGEL® B (US)

Product description:

FORTIGEL® B are highly purified Bioactive Collagen Peptides¹ from bovine skin. The average molecular weight is approx. 3,000 g/mol.

¹BIOACTIVE COLLAGEN PEPTIDES® is a Trademark of GELITA AG

Characteristics:

Light ivory colored, agglomerated powder with a bulk density of approx. 300 g/L. Specifically neutral in taste and odor and easily soluble in cold and warm water and liquids.

FORTIGEL® B is pure collagen protein with an extremely low mineral content and is free of fat, cholesterol, carbohydrates, and dietary fibers.

Bioactivity is monitored according to GELITA's monitoring plan, assured by our quality system.

Amino acid composition⁵

Amino acid	Weight (%)
Alanine	8.6
Arginine	7.3
Aspartic acid	5.8
Glutamic acid	10.2
Glycine	22.2
Histidine	1.0
Isoleucine	1.4
Leucine	2.7
Lysine	3.6
Hydroxylysine	1.6
Methionine	0.9
Phenylalanine	2.1
Proline	12.7
Hydroxyproline	11.9
Serine	3.2
Threonine	1.8
Tyrosine	0.8
Valine	2.4

Application and Service:

FORTIGEL® B is clinically proven to support the body's own mechanisms for maintaining healthy joints and mobility.

Shelf life:

Under dry and odorless conditions **FORTIGEL® B** can be stored in the original unopened packaging at ambient temperatures (< 30°C) for 5 years without loss of quality.

Packages:

Multi-ply REPA paper bags with PE-liner containing 15 kg net.

Chemical/Physical Data:

Parameter	Test Method	Value
Protein content	Kjeldahl (N x 5.55)	91 – 95 %
Protein content based on dry substance	GELITA method	≥ 96 %
Dry substance (105 °C, 16 h)	GME ³	91 – 96 %
Ash (550°C)²	USP/GME	≤ 0.8 %
pH (20 %, RT)	Potentiometer	5.0 – 6.4
Viscosity (20 %, 25°C)	GELITA method	3.0 – 5.0 mPa s
Peroxides	Ph. Eur./GME	≤ 10 mg/kg
Sulphur dioxide²	Ph. Eur./GME	≤ 10 mg/kg
Arsenic²	ICP-OPS	≤ 0.7 mg/kg
Cadmium²	ICP-OPS	≤ 0.1 mg/kg
Chromium²	ICP-OPS	≤ 1.0 mg/kg
Copper²	ICP-OPS	≤ 2.0 mg/kg
Mercury²	AAS	≤ 0.02 mg/kg
Lead²	ICP-OPS	≤ 0.5 mg/kg
Zinc²	ICP-OPS	≤ 10 mg/kg

²Reduced frequency testing in accordance to an internal quality program. The values given are based on average GELITA monitoring data at the time of printing. These values are for information only.

³GME, Gelatine Manufactures of Europe

⁴determined due to national regulations and requirements – not standard

⁵Average score for typical collagen peptides derived from mammals.

The amino acid composition was determined by amino acid analysis as described in Ph.Eur. 2.256 (Version 8).

Nutritional profile (per 100g):

Nutrient	Typical value
Energy value (average)	1,530 kJ (360 kcal)
Fat²	0 g
<i>of which</i>	
-saturates²	0 g
-trans fat	0 g
Cholesterol	0 g
Carbohydrates²	0 g
<i>of which</i>	
-sugars²	0 g
Protein⁶	90.0 g
Salt	0.5 g
Sodium	0.2 g
Vitamin D	Not a significant source
Calcium	Not a significant source
Iron	Not a significant source
Potassium	Not a significant source

⁶The protein is calculated from the nitrogen content by using the factor 5.55 as described in Jones, D.B. (1941) US. Dept. Agric. Circ. 183 (revised).

Regulatory Issues:

FORTIGEL® B is pure collagen protein with an extremely low mineral content and is free of fat, cholesterol, carbohydrates, dietary fibers and GMO. The product is in accordance with FDA regulations, HACCP, ISO9001:2015 and FSSC22000:2010. Classified as GRAS (Generally Regarded As Safe). Furthermore, the product is in compliance with regulation (EC) No. 852/2004 on the hygiene of foodstuffs and with regulation (EC) No. 853/2004, laying down specific hygiene rules for food of animal origin. According to regulation (EC) No. 1829/2003 and regulation (EC) No. 1830/2003 the product has not to be labelled as "GMO".

Depending on the application and on the country where the product is to be consumed additional regulatory requirements may apply, therefore it needs to be ensured by the customer/user that the product is used in compliance with national legal requirements. Statements are made to the best of our knowledge at the time of issuing the data sheet. **The values given in the data sheet are for information only and are not to be considered as specifications.** User shall be responsible for the commercialization of this GELITA ingredient also if applied into finished or semi-finished product formulations.

Microbiological limits:

Parameter	Test Method	Value
Total aerob. micro. count	Ph. Eur./USP	< 1000 cfu/g
Total yeast/mould count	Ph. Eur./USP	< 100 cfu/g
Sulfite re. anaer. spores	AFNOR NF V59-106	< 10 cfu/g
Escherichia coli	Ph. Eur./USP mod.	negative / 10 g
Salmonella	ISO 6579	negative / 25 g

Allergen information

Allergens (REG (EU) No 1169/2011) / USDA	contains
Cereals containing gluten, namely wheat (such as spelt and Khorasan wheat), rye, barley, oats, spelt, kamut or their hybridized strains, and products thereof	No
Crustaceans and products thereof	No
Eggs and products thereof	No
Fish and products thereof	No
Peanuts and products thereof	No
Soybeans and products thereof	No
Milk and products thereof (including lactose)	No
Nuts, namely almonds, hazelnuts, walnuts, cashews, pecan nuts, Brazil nuts, pistachio nuts, macadamia or Queensland nuts, and products thereof	No
Celery and products thereof	No
Mustard and products thereof	No
Sesame seeds and products thereof	No
Sulphur dioxide and sulphites (E220 - E228) at concentrations of > 10 mg/kg or > 10 mg/l expressed as SO₂	≤ 10 mg/kg
Lupin and products thereof	No
Molluscs and products thereof	No

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