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Prepared/Opracował	Quality Assurance Manager/Kierownik ds. jakości	
Approved/Zatwierdził	Owner	

**Product name: COLOSTRUM BOVINUM (skimmed)**

**1. General information:**


<b>Market designation:</b>	Colostrum-skimmed concentrated powder
<b>Product description:</b>	Skimmed, spray-dried powder of <i>Colostrum bovine</i>
<b>Energy per 100 g powder</b>	≈ 1500 kJ
<b>Nature</b>	Bovine milk
<b>Color</b>	Light yellow
<b>Taste and Odor</b>	Typical milk powder, mildly sweet, with no foreign aftertaste
<b>Texture:</b>	Powder, no visible contamination
<b>Shelf life:</b>	24 months from the production date (kept in closed, original packaging)
<b>Packaging:</b>	20 kg Bag with a label in a company box.
<b>Storage conditions:</b>	Dry and dark place, temperature below 20°C. Humidity relative max: 75%.
<b>Disease status</b>	Free of Brucellosis, TB, EBL (Leucosis), Johne's Disease, BVD, BSE.

**2. Application:**

<b>Target group:</b>	Generally suitable for consumption except for people allergic to <b>milk</b> products.
<b>Areas:</b>	Human nutrition, dietary supplements, animals nutrition, cosmetics

**3. Nutrition value:**

Nutritional value in 100 g	
Energy	1474 kJ/347 kcal
Protein	62 g
Carbohydrates	23 g
in which sugars	14 g
in which lactose	13g
Fat	0,4 g
In which saturated	0,3 g
Salt	0,9 g
Fibre	2,1 g

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#### 4. Chemical and physical parameters:

Component	Method	SPECYFICATION
Immunoglobulin G (%) (absolutely in matter)	BLI Bio-layer Interferometry	min. 30%
Immunoglobulin G (%) (absolutely in protein)	BLI Bio-layer Interferometry	min. 40%
Protein %	(Ae) (O) PB-14/LF, wyd. 6 z dnia 24.03.2017	60 -70
Fat %	(Ae) PB-69/LF, wyd. 4 z dnia 09.04.2018	0,4 - 1,2
Ash %	(Ae) (O) PB-19/LF, wyd. 4 dnia 24.03.2017	4 - 8
Moisture %	(Ae) (O) PB-16/LF, wyd. z 6 dnia 26.08.2019	4 - 8
pH %	According to IL-04.02/Zgodnie z IL-04.02	6 - 7


#### 5. Microbiological parameter:

Component	Method	SPECYFICATION
Total plate count (CFU/g)	PN-EN ISO 4833-1:2013-12, PN-EN ISO 4833-1:2013-12/Apl:2016-11	not more than $10^4/g$
Yeast and Moulds (CFU/g)	PN-ISO 21527-2:2009	max. $3.0 \times 10^1$
Coliform bacteria (CFU/g)	PN-ISO 4831:2007 pkt 9.1	negative in / 1g
Escherichia coli (CFU/g)	PN-ISO 4831:2007	negative in / 1g
Clostridium perfringens	(Ae) (O) PN-EN ISO 7937:2005	$< 1.0 \times 10^1$
Coagulase pos. Staphylococcus (CFU/g)	(Ae) (O) PN-EN ISO 6888-3:2004, (Ae) (O) PN-EN ISO 6888-3:2004/AC:2005	negative in / 1g
Enterobacteriaceae (CFU/g)	(Ae) (O) PN-EN ISO 21528-2:2017-08	negative in / 1g
Salmonella spp.	(Ae) PN-EN ISO 6579-1:2017-04	negative in 25g
Listeria monocytogenes	(Ae) PN-EN ISO 11290-1:2017-07	negative in 25g
Bacillus cereus (CFU/g)	(Ae) (O) PN-EN ISO 7932:2005	$< 1.0 \times 10^1$

#### 6. Heavy metals and requirements concerning contaminants:

Component	Method	SPECYFICATION
Cadmium (mg/kg)	(Ae) (O) PN-EN ISO 15763:2010	max. 1,0
Lead (mg/kg)	(Ae) (O) PN-EN ISO 15763:2010	max. 3,0
Arsenic (mg/kg)	(Ae) (O) PN-EN ISO 15763:2010	max. 0,5
Mercury (mg/kg)	(Ae) (O) PN-EN ISO 15763:2010	max. 0,1

#### 7. Allergens:


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Component	YES	NO
Cereals with gluten (wheat, rye, barley, oat, spelt wheat, kamut, or hybridized strain) anby-products		X
Crustaceans and by-products		X
Eggs and by-products		X
Fish and by-products		X
Peanut and by-products		X
Soya and by-products		X
Milk and by-products (including lactose)	X	
Nuts (almond, walnut, Cashew nut, Pecan nut, Brazil nut, pistachio, Macadamia nut, Queensland nut) and by-products		X
Celery and by-products		X
Mustard and by-products		X
Sesame seeds and by-products		X
Sulphur dioxide and sulphites > 10 mg/kg		X
Lupin an by-products		X
Molluscs and by-products		X

## 8. Declarations:

Component	YES	NO
<b>GMO content</b>		X
<b>BSE/TSE content</b>		X
<b>Treated with radiation</b>		X
<b>Antibiotics and inhibitory substances</b>		X

Component	Limits
<b>Heavy metals</b>	in accordance with applicable EU-food legislation
<b>Pesticides</b>	In accordance with EU Regulation No396/2005 (with subsequent ammendments)
<b>Ionizing radiation</b>	The product is not treated with ionizing rays
<b>Detection</b>	The product is treated by a metal detection

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## 9. Further information on the product:

- Colostrum-skimmed powder is a natural product and may vary.
- The product fulfills all requirements according to EU-food-legislation and was tested and approved and can therefore, in principle, be marketed in all countries of the European Union.
- The data included in this specification is based on present regulations, knowledge and latest research.
- The colostrum used to produce COLOSTRUM BOVINUM (skimmed) is from antibiotic free sources.

## 10. Change history

Edition	Change description

\*The document has been created electronically and is valid without signature