

TECHNICAL DATA SHEET

Spray Dried Bovine Hemoglobin Human Consumption

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Product Description:

Name of the Product	Trademark	Description	Composition
Dried Bovine Hemoglobin Human Consumption	PROVITA **IGHLY DIGESTIBLE PALATABLE NOTE(1)(0)(5)	It is an organic product, obtained from the centrifugation of bovine blood, from slaughterhouses with ante- and postmortem veterinary inspection (IPSA), collected and processed under strict hygiene conditions and traceability. The hemoglobin is spray dried which guarantees high solubility, preserves the functional and nutritional properties of the product (proteins of high biological value).	Bovine Hemoglobin + Sodium Citrate

Specifications

Sensorial

Parameter	Specification	Method
Physical appearance	Fine dust particles	Visual
Color	Red Wine	Visual
Odor	Characteristic	Organoleptic
Flavor	Characteristic	Organoleptic

Chemical Physicists

Parameter	Specification	Method
Humidity	8% maximum	Oven 105°C constant weight
Fat	0.2 %	Extraction Soxhlet
рН	7 - 8	pH-meter
Solubility	95 ± 1 % minimum	Gravimetric (w/w)
Ash	4% máximum	Calcination to 550°C







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Microbiological

Parameter	Specification	Method
Aerobic Mesophiles	≤ 100,000 UFC/g	AOAC 990.12
Salmonella (25g)	Ausencia	MLG 4.05 USDA-FSIS
Total Coliforms	≤100 UFC/g	(BAM), 8 th Edition, Chapter 4.
Generic E. Coli	≤100 UFC/g	(BAM), 8 th Edition, Chapter 4.
E. Coli 0157-H7 (25 g)	Ausencia	AOAC 991.14

Amino acid (%w/w base don dry matter)

Parameter	Specification	Method
Total Lysine	6.25 %	ESS_3.4.7.219
Arginine	4.63 %	ESS_3.4.7.219
Methionine	1.94 %	ESS_3.4.7.219
Threonine	0.73 %	ESS_3.4.7.219
Leucine	2.84 %	ESS_3.4.7.219
Valine	6.84 %	ESS_3.4.7.219
Histidine	4.97 %	ESS_3.4.7.219
Phenylalanine	2.14 %	ESS_3.4.7.219
Cystine	3.88 %	ESS_3.4.7.219
Tryptophan	2.27 %	ESS_3.4.7.219
Isoleucine	3.83 %	ESS_3.4.7.219
Tyrosine	1.30 %	ESS_3.4.7.219
Glycine	2.52 %	ESS_3.4.7.219
Serine	5.06 %	ESS_3.4.7.219
Proline	3.83 %	ESS_3.4.7.219
Alanine	3.27 %	ESS_3.4.7.219
Aspartic Acid	7.43 %	ESS_3.4.7.219
Glutamic acid	10.3 %	ESS_3.4.7.219

*Analysis performed at Laboratorios Exact Scientific Inc. (USA), 1355 Pacific Place, Suite 101, Ferndale, WA 98248. Phone: (360) 733-1205, Fax: (888) 818-2978. Email: lab@exactscientific.com. Date: 17/1/2018

Nutrition Facts (100 g)

Parameters	Specification
Calories	362
Proteins	90g
Fat	0.2g
Carbohydrates	Og
Heminic Iron	250 mg (2,500 ppm)







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Product Applications

	As an ingredient fortifying Foods with heminic iron	
	As a natural colorant in processed meat industries	
Applications:	Protein supplement, meat substitute and/or complement	
	Fortification: Dosage 1 - 7 % according to food type	
Recommended use:	Natural Food Coloring: 0.5 a 1 % depending on ingredients in formulation	
Presentation and Packaging:	Screen-printed virgin polypropylene bags with polyethylene inner bag/lining. Net weight: 25kg	
Distribution System:	It is transported in closed trucks/containers at room temperature.	
Shelf life:	1 year from its manufacture date	
Handling and conservation conditions:	This product should be stored in a cool, dry place without sun exposure. Stow on pallets at a minimum height of 15 cm from the floor, 50 cm from the wall. For export, wooden pallets are required to be fumigated and certified by IPSA.	
GTIN Identification	74-33200-73901-3	
number:		







