


Product description:

Name of the product	Trademark	Description	Composition
Dried Bovine Plasma Animal Consumption		<p>It is an organic product, obtained from the centrifugation of bovine blood, from slaughterhouses with ante- and post- mortem veterinary inspection (IPSA), also approved and USDA certified, collected and processed under strict hygiene conditions.</p> <p>Bovine plasma is concentrated by evaporation and is subjected to a dehydration process by Spray-Dryer, which guarantees high solubility, preserving the functional and nutritional properties of the product (proteins of high biological value).</p>	Bovine Plasma + Sodium Citrate

Specifications

Sensorial

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

Physicochemical

Parameter	Specification	Method
Protein(Nx6.25)	Min. 70%	Kjeldahl
Moisture	Max. 6%	Stove 105°C constant weight
Fat	Max. 1%	Extraction Soxhlet
pH	7.5-9	pH-meter
Solubility	94 ± 2 %	Gravimetric (w/w)
Total solids	94 ± 1 %	Stove 105°C constant weight
Ash	Max 18%	ASTM D512

Microbiological

Parameter	Specification	Method
Aerobic Mesophiles	<10 ⁵ UFC/g	AOAC 990.12
Salmonella (25g)	Absence	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 (25g)	Absence	AOAC 991.14

Amino acid (%w/w based on dry matter)

Parameter	Specification	Method
Total Lysine	8.76%	ESS_3.4.7.219
Arginine	4.38%	ESS_3.4.7.219
Methionine	1.36%	ESS_3.4.7.219
Threonine	4.96%	ESS_3.4.7.219
Leucine	12.7%	ESS_3.4.7.219
Valine	8.40%	ESS_3.4.7.219
Histidine	6.10%	ESS_3.4.7.219
Phenylalanine	6.94%	ESS_3.4.7.219
Cystine	0.56%	ESS_3.4.7.219
Tryptophan	0.76%	ESS_3.4.7.219
Isoleucine	0.38%	ESS_3.4.7.219
Tyrosine	3.04%	ESS_3.4.7.219
Glycine	3.52%	ESS_3.4.7.219
Serine	4.47%	ESS_3.4.7.219
Proline	3.91%	ESS_3.4.7.219
Alanine	8.47%	ESS_3.4.7.219
Aspartic Acid	10.2%	ESS_3.4.7.219
Glutamic acid	7.56%	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

Nutritional Facts

Parameter	Specification	Method
Metabolizable energy for swine Kcal/kg	3,300 Kcal/kg	Atwater
Metabolizable energy for poultry Kcal/kg	3,114 Kcal/kg	Atwater
Pepsin digestibility	99.37 %	AOAC_971.09

Mineral Content

Parameter	Specification
Ca	0.13%
P	0.27%
K	0.28%
Na	4.72%
Cu	8 ppm
Fe	76 ppm
Mg	315 ppm
Zn	10 ppm

Product application

Application:	<p>Widely used and accepted in the diets of different animal species and in ruminants where local legislation allows it:</p> <ul style="list-style-type: none"> • Pigs: pre-weaning and weaning, dose: 3.0 to 5.0% . Benefits: high digestibility and biological value of its protein, passive protection (enteric effect) linked to the content of immunoglobulin (IgG), which exerts a protective effect on the intestinal mucosa, preventing or reducing infection by E. Coli (diarrhea). • Aquaculture (Fish and crustaceans), dose: 2-7%, it improves the consistency, impermeability / buoyancy and color of the pellet. • Poultry: Food formulation for chicks (broilers and layers) , dose: 0.5-2.5%.
Recommended species:	Poultry, pigs, fish, pets (felines and canines), other animal species and ruminants where the local legislation allows it.
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:	2 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 number	74-33200-73903-7