

Product description:

Name of the product	Trademark	Description	Composition
Dried Bovine Hemoglobin Organic Fertilizer Biostimulant		<p>Product obtained from the centrifugation of bovine blood, collected and processed under strict hygienic conditions from slaughterhouses with ante- and post-mortem veterinary inspection (IPSA). Certified under USDA NOP, EU CEE, and Japan JAS standards, all approved for organic production.</p> <p>The hemoglobin undergoes Spray-Dryer dehydration, preserving the biofunctional properties of proteins and amino acids, as well as solubility and nutrient availability for plants. Vitalagro, like all blood-derived fertilizers, rapidly releases nutrients, making them available to short-cycle crops, a characteristic normally attributed only to chemical fertilizers and not traditional organic fertilizers.</p>	Bovine Hemoglobin + Sodium Citrate

Specifications

Sensorial

Parameter	Specification	Method
Physical appearance	Fine powder particles	Visual
Color	Wine red	Visual
Odor	Characteristic	Organoleptic

Physicochemical

Parameter	Specification	Method
Protein(Nx6.25)	Min. 90%	Kjeldahl
Moisture	Max. 7%	Oven 105°C constant weight
Fat	Max. 1%	Extraction Soxhlet
pH	7-8	pH-meter
Solubility	Min. 95 ± 1 %	Gravimetric (w/w)
Ash	Max 4%	Calcination to 550°C

Microbiological

Parameter	Specification	Method
Total Coliforms	< 1000 UFC/g	AOAC 991.14
Salmonella (25g)	Absence	MLG 4.05 USDA-FSIS

Nutrients & Minerals

Parameters	Specification	Method
Total Nitrogen (N)	14.5 – 15%	AOAC 954.01
Total Phosphorus (P2O5)	0.10%	AMPE AY-6
Potassium (K2O)	0.30%	AMPE AY-6
Magnesium (Mg)	0.30%	AMPE AY-6
Calcium (Ca)	0.01%	AMPE AY-6
Copper (Cu)	0.002%	AMPE AY-6
Manganese (Mn)	0.004%	AMPE AY-6
Zinc (Zn)	0.003%	AMPE AY-6
Iron (Fe)	2,850 ppm	AMPE AY-6

*Method: Analytical Methods Perkin Elmer AY-6.

Amino Acid Profile (% dry matter basis)

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

*Análisis de Aminoácidos realizados en 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. Fecha: 17/1/2018. Method: ESS_3.4.7.219

Applications

Applications	<p>Soil Application: As a nitrogen source, incorporated 2–5 cm into the soil.</p> <p>Foliar Application: As a biostimulant during critical crop stages: Pre-flowering , Fruit formation , Fruit filling , Fruit ripening</p> <p>Recovery of plants stressed by: Water deficit , Pests , Diseases , Correction of iron deficiencies.</p> <p>Can be applied in: Open field , Greenhouses (Fertigation systems , Drench applications)</p> <p>Do not apply in poorly drained soils.</p>
Recommended Crops	<p><u>Recommended for:</u> Banana & plantain, Pineapple, Strawberry, Melon, Watermelon, Papaya, Mango, Citrus, Coffee, Ginger, Turmeric, Cassava, Potato, Sweet pepper, Tomato, Eggplant, Lettuce, Oil palm, Tobacco, Sugar cane, Ornamental plants, Flowers, And many other short- and long-cycle crops</p>
Application Method & Dosage	<p>Foliar Biostimulant Application 2–4 applications during critical crop stages</p> <p>Dose: 3 kg/ha</p> <p>Diluted in: 200 L water (mechanized application); 600 L water (manual application)</p> <p>For dilution, gradual mixing or premixing is recommended to ensure proper homogenization and solubility.</p>
Packaging:	<p>Food-grade polypropylene printed bags with internal polyethylene lining. Net weight: 25 kg</p>
Distribution & Shelf Life	<p>Distribution: Closed trucks and/or dry containers at ambient temperature.</p>
Shelf life:	<p>2 years from production date</p>
Handling and conservation conditions:	<p>Store in a cool, dry, enclosed area. Palletize at least: 15 cm above the floor, 50 cm away from walls. For export, wooden pallets must be fumigated and certified by IPSA.</p>
Registration Information	<p>Registration Number: U-NI-FER-834-2016</p> <p>GTIN: 74-33200-73902-0</p>