

DEFINITION	Functional ingredient clinically proven to help strengthen the body's natural immunological defense mechanisms. The product is biotechnologically obtained through culture immersion of the Ganoderma lucidum mushroom. It is a beige powder intended for use as functional food, beverage and/or dietary supplement ingredient. Product may be consumed directly.
CLASSIFICATION	Powder raw material intended for industrial or household application.
INGREDIENTS	Beta-glucans, Ganoderma lucidum derivatives, Maltodextrin, Polydextrose.
PROCESS DESCRIPTION	Raw material receipt - raw material quality test - culture medium preparation - production in bioreactors - pasteurization - polysaccharides quantifications - drying - packing - storage.

TECHNICAL SPECIFICATIONS

COMPOSITION/ CHARACTERISTICS	SPECIFICATIONS	ASSESSMENT AND ASSAY METHOD
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Physical Characteristics

Appearance	Homogeneous fine powder, beige color	Visual
Smell	Product specific	Olfactory
Taste	Components specific	Taste
Decomposition temperature	270°C (Air)	TGA
Solubility	Soluble in water (room temperature)	Solubility

Chemical Characteristics

Betaglucans (%)	≥ 70	Megazyme K-YBGL Mushroom and yeast Betaglucan (Dry basis)
Humidity (%)	≤ 5.0	AOAC 925.45 Amended Ed. 16
Ashes (%)	< 3.0	AOAC 923.03 Ed. 16
Total Fat (%)	< 1.0	AOAC 2000.18 Ed. 17 Amended
Protein (%)	< 2.0	AOAC 988.05 Ed. 15
Carbohydrates (%)	> 90	Estimation through difference of components other than carbohydrates

Heavy Metals

Lead	< 0.5 ppm	Standard method for water assessment Ed. 21 st 2005.3111B;NTC 4634 a ISO 6486-1
Arsenic	< 0.5 ppm	AOAC 912.01 Ed. 18 Amended
Cadmium	< 0.5 ppm	Standard method for water assessment Ed. 21 st 2005.3111B;NTC 4634 a ISO 6486-1
Mercury	< 0.1 ppm	Standard method, Ed. 21 st 2005.3112A

Microbiological Characteristics

Mesophile microorganisms count UFC/g	< 1,000	AOAC 988.18 Ed. 19
Mold and Yeast Count UFC/g	< 100	ISO 21527:2008 equivalent a NTC 5698
Total coliforms UFC/g	< 10	AOAC 966.24 Ed. 19
Escherichia Coli Detection UFC/g	Negative	AOAC 966.24 Ed. 19
Salmonella Detection UFC/g	Negative	AOAC 967.27 Ed. 19/AOAC 2011, 03 Ed. 19
Staphylococcus aureus coagulasa - positive Detection UFC/g	Negative	AOAC 975.55-ISO 16140.BIO 12/21-12/06

CONSERVATION, STORAGE, AND CONDITIONS OF TRANSPORTATION

Product should be stored in a dry fresh place, in compliance with legal sanitary requirements (pest control, hygiene, and good manufacture practices). Daily monitoring of rotation and expiration dates at storage sites. This product should be transported in clean vehicles, piled up in racks. Do not lay directly on the vehicle floor. Product should not be shipped together with toxic substances, chemicals or animals. Consume before expiration date (2 years post-production date).

RECOMMENDED DOSAGE

500 mg suggested daily dosage

REMARKS

-Product has no adverse effects
-When added to food, properties such as taste, texture, and consistency remain unchanged.

COMMERCIAL PRESENTATION AND PACKING

Industrial: 25 kg containers

PACKING MATERIAL

Industrial: Clear polypropylene double bag.

USEFUL LIFE

2 years under good handling and storage conditions (dry fresh place).

REGISTRATION

Ganogen[®] INVIMA REGISTRATION - RSA 10119009

COMPANY INFORMATION:

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