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Technical Data Sheet

Product Name: Chaga Extract Powder, hot water extracted
 Botanical Name: Inonotus obliquus; Growing Substrate: Organic Sorghum
 Plant Part Used: Mycelium and Fruiting Bodies
 Particle Size: 95% pass 100 mesh
 Process: Organic, Kosher, Non GMO
 Bulk Density: 0.3-0.6 g/ml
 Shelf Life: 3 years when stored in a sealed container at ambient conditions

Product Description

UNITEDBIOSCIENCE product is **USDA Organic** certified and produced in a 3rd-party audited and certified FDA cGMP facility. UNITEDBIOSCIENCE product is designed for use in **gummies, capsules, powders, beverages, and functional foods.**

Specifications

TESTS	DESCRIPTION	UNITS	METHODS	SPECIFICATIONS
Extract to Biomass Equivalency	Ratio of extract potency to biomass potency		HPLC	1:1
Organoleptic				
Description	Fine powder	Observation		Free-flowing, light-brown to beige powder
Color	Light brown to beige	Observation		Uniform color
Odor	Characteristic, earthy	Observation		Mild, slightly woody and earthy
Assay				
Beta-Glucans		%	USP <561>	≥30%



Polyphenols (Phenolic Compounds)		%	HPLC	≥5%
Moisture Content		%	USP <731>	<8%
Acid Value		Mg KOH/g	AOCS CD 3D-63	<2.0
Peroxide Value		meq/kg	AOCS CD 88-90	<10.0
Heavy Metals				
Arsenic	ICPMS	ppm	JOAOC 2016 99(3)	<1.5
Lead	ICPMS	ppm	JOAOC 2016 99(3)	<0.5
Mercury	ICPMS	ppm	JOAOC 2016 99(3)	<0.1
Cadmium	ICPMS	ppm	JOAOC 2016 99(3)	<0.2
Microbial Purity				
Aerobic Plate Count (APC)		cfu/g	Test: AOAC 990.12 Limit: USP <2021>	<1,000
Coliforms		cfu/g	AOAC 989.1 Limit: USP <2021>	<100
Yeast and Molds		cfu/g	AOAC 997.02	<100



			Limit: USP <2021>	
E. Coli		cfu/g	AOAC 992.3 Limit: USP <2021>	Absent
S. aureus		cfu/g	AOAC 2003.07 Limit: USP <2021>	Absent
Salmonella sp.		cfu/g	AOAC PTM #061702 Limit: USP <2021>	Absent
Pesticides	Broad array of pesticides tested for botanical articles		USP <561>	Pass

Product Information

Item	Details
CAS Number	
Country of Origin	UNITEDBIOSCIENCE product is manufactured and guaranteed in the USA. Biomass origin is Canada.
Compendia References	USP Monograph <561>
Harmonized Tariff Code	0710.80.20



Solubility	UNITEDBIOSCIENCE product is IMMISCIBLE in fats and oils. UNITEDBIOSCIENCE product is water dispersible and slightly soluble in ethanol.
Stability and Storage	The shelf life in sealed, original containers stored at <25°C /77°F and well protected from light and excessive heat exposure is 36 months after the date of manufacture. Product IS especially sensitive to light; protect from light, heat, and oxygen. Flush opened containers with inert gas and tightly reseal.
GMP	UNITEDBIOSCIENCE confirms that the product is manufactured in a facility adhering to cGMP as defined by the FDA 21 CFR Part 117. Certified by Wisconsin State Department of Health (DATCP).
Non-GMO and Organic Compliance	Product IS USDA Certified Organic . Product IS free of genetically modified organisms.
Vegetarian/Vegan Statement	Product IS vegetarian and vegan, as it contains no animal-derived ingredients.

Packaging Details

Container Type	Net Weight	Gross Weight	Dimensions	Qty per Pallet Layer
Sample pouch	5 g	5.1 kg	3" x 4" (50mm x 100mm)	N/A
Food grade resealable pouch	1 kg (2.2 lbs)	1.1 kg	8" x 4" x 12" (20cm x 10cm x 30cm)	60 pouches per pallet layer
Food grade resealable pouch	5 kg (11 lbs)	11 kg	12" x 6" x 20" (30cm x 15cm x 50cm)	24 pouches per pallet layer
Food grade resealable pouch	25 kg (55 lbs)	27 kg	16" x 8" x 28" (40cm x 20cm x 70cm)	15 pouches per pallet