



500 Simmon Dr.  
 Osceola, WI 54020, USA  
[www.unitedbiosci.com](http://www.unitedbiosci.com)  
 651.464.2822

## Technical Data Sheet

Product Name: Shiitake Extract Powder, hot water extracted  
 Botanical Name: Lentinula edodes; 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.**

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## Specifications

TESTS	DESCRIPTION	UNITS	METHODS	SPECIFICATIONS
<b>Extract to Biomass Equivalency</b>	<b>Ratio of extract potency to biomass potency</b>		<b>HPLC</b>	<b>2:1</b>
<b>Organoleptic</b>				
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
<b>Assay</b>				
Total Polysaccharides		%	HPLC	≥30%



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Lentinan		ppm	HPLC	≥3%
Moisture Content		%	USP <731>	<8%
<b>Acid Value</b>		Mg KOH/g	AOCS CD 3D-63	<2.0
<b>Peroxide Value</b>		meq/kg	AOCS CD 88-90	<10.0
<b>Heavy Metals</b>				
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
<b>Microbial Purity</b>				
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 Limit: USP <2021>	<100



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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
<b>CAS Number</b>	37339-90-5
<b>Country of Origin</b>	UNITEDBIOSCIENCE product is manufactured and guaranteed in the USA. Biomass origin is Canada.
<b>Compendia References</b>	USP Monograph <561>
<b>Harmonized Tariff Code</b>	0710.80.20
<b>Solubility</b>	UNITEDBIOSCIENCE product is <b>IMMISCIBLE</b> in fats and oils. UNITEDBIOSCIENCE product is water dispersible.



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<b>Stability and Storage</b>	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 <b>IS</b> especially sensitive to light; protect from light, heat, and oxygen. Flush opened containers with inert gas and tightly reseal.
<b>GMP</b>	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).
<b>Non-GMO and Organic Compliance</b>	Product <b>IS USDA Certified Organic</b> . Product <b>IS free</b> of genetically modified organisms.
<b>Vegetarian/Vegan Statement</b>	Product <b>IS</b> 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