

SPECIFICATION SHEET

Product: **WS Shiitake Organic Extract**

Product Code: NSE20

Fungi Species: *Lentinula Edodes*

Plant Part Used: Fruiting Bodies

Mushroom: Extract Ratio 8:1

Ingredient name:

WS Shiitake Organic Extract

	Specification	Method ID
Appearance	Beige Powder	visual
Identification	Positive	FT-NIR
Odor	Earthy, Characteristic	Organoleptic
Flavor	Neutral, Unami	Sensory
Moisture	< 8.0%	LOD (USP)
Solubility	>95%	(1)
Beta 1(3)-1(6) Glucan	≥13%	Megazyme assay kit K-YBGL
Lead	< 0.50 ppm	ICP-MS AOAC 2013.06
Arsenic	< 0.50 ppm	ICP-MS AOAC 2013.06
Cadmium	< 2.0 ppm	ICP-MS AOAC 2013.06
Mercury	< 1.0 ppm	ICP-MS AOAC 2013.06
Heavy Metals	< 10 ppm	ICP-MS AOAC 2013.06
<i>E. coli</i>	negative / 25 g	USP <62>
Total Coliform	<3 cfu/g	AOAC 996.24, MPN, FDA BAM
<i>Salmonella</i>	negative / 25 g	USP <62>
<i>Staphylococcus</i>	negative / 25 g	USP <62>
Yeast & Mold	< 1000 cfu /g	USP <61>
Aerobic Total Plate Count	< 10,000 cfu/g	AOAC 990.12, FDA BAM

Meets the microbe requirements of the Food Chemical Codex. / United States Pharmacopoeia.

(1) Internal AFS SOP-04-007, SOP-04-008, Ref for 0.50 w/w% solution

Shiitake Extract is an Allergen Free Product as defined by the Food Allergy Labelling and Consumer Protection Act of 2004. Product contains no additives, carriers and excipients.

Main characteristics

Shiitake is brown in solution.

Solubility in water : >95%

pH : 6.4

aw : <0.15

There is no evidence to demonstrate or suggest a hazard when employed at levels that are currently in use.

Allergen

The Shiitake Extract is **free** from the following known allergens:

Milk	Eggs	Gluten
Fish	Shellfish / Shrimp	Sesame
Nuts	Wheat	
Soybeans	Lactose	

For the full list of free allergens in the AFS supplied Shiitake extract please refer to AFS Mushroom Allergen Statement.

Aflatoxin:

- Aflatoxin B1: < 2 ppb
- Aflatoxin B2, G1, G2 or sum of aflatoxins: < 3-5 ppb
- Ochratoxin A or B: < 10 ppb
- Fumonisin: < 100 ppb

Pesticide Screens: Comply with the USP34-NF29:561 requirements

Packing

Available in 5 & 25 kg food grade plastic inner, cardboard outer pack.

Storage

Hydroscopic. Store in well-closed containers in a dry place at ambient temperature (15-20°C). Material should be re-tested after storage for two years.

Sterilization

Non-contact steam heat in drying operation.

Applications

Food & Nutritional Supplements

Shiitake can be used as a nutritional supplement in powder form or as an immune health and as an antioxidant support ingredient in conventional foods.

Internal Release Document: FOR-03-006(111-B)