

Certificate Of Analysis

shumi

Tested by: Metropolilab Oy

PRODUCT INFORMATION

PRODUCT NAME:	Lion's Mane Organic Liquid Extract
BATCH NUMBER:	OHEL-KMB-160224
PRODUCTION TIME:	02/2024
EXPIRY TIME:	02/2027
SPECIFICATION:	Food grade
RAW MATERIALS:	Organic lion's mane (<i>Hericium erinaceus</i>), ethanol (organic), purified water
PRODUCT STATUS:	Packed
DESCRIPTION:	Liquid extract produced from 100% organic lion's mane fruiting bodies (mushrooms)
CERTIFICATIONS:	EU/USDA certified organic, FSSC 22000
EXTRACTION METHODS:	Purified water, organic grain ethanol, ultrasonic-assisted extraction

PACKAGING AND STORAGE

PACKAGING:	Miron Glass, ultraviolet glass to reduce compound breakdown.
STORAGE CONDITIONS:	Protected from light, moisture, and oxygen at room temperature between 15 and 25 degrees Celsius.
STORAGE LIFE:	36 months

PRODUCT DETAILS

PARAMETER	DESCRIPTION	METHOD OF ANALYSIS
Mushroom used	100% <i>Hericium erinaceus</i>	Sensory evaluation
Appearance	Light yellow	Sensory evaluation
Taste	Sweet, earthy, ethanol	Sensory evaluation

PRODUCT QUALITY

PARAMETER	RANGE	RESULTS	METHOD OF ANALYSIS
ORGANOLEPTIC ANALYSIS			
Appearance	Characteristic- Uncharacteristic	Characteristic	Sensory evaluation
Taste	Characteristic- Uncharacteristic	Characteristic	Sensory evaluation
CHEMICAL ANALYSIS			
Ethanol	22%	22%	Sensory evaluation, calculation
HEAVY METAL ANALYSIS			
Arsenic, As	≤ 2.0 ppm	< 0.5 ppm	ICP-MS: SFS-EN ISO 17294-2
Mercury, Hg	≤ 0.1 ppm	< 0.05 ppm	ICP-MS: SFS-EN ISO 17294-2
Cadmium, Cd	≤ 1.0 ppm	< 0.03 ppm	ICP-MS: SFS-EN ISO 17294-2
Lead, Pb	≤ 3.0 ppm	< 0.05 ppm	ICP-MS: SFS-EN ISO 17294-2
MICROBIOLOGICAL ANALYSIS			
Colony count of aerobic microorganisms	≤ 100 000 cfu/g	< 100 cfu/g	NMKL 86:2013, 30°C
Escherichia coli	≤ 100 cfu/g	< 10 cfu/g	Rapid E.coli2 Agar
Yeast	≤ 1000 cfu/g	< 100 cfu/g	NMKL 98:2005, OGYE-agar, 25°C, 5-7 days
Molds	≤ 1000 cfu/g	< 100 cfu/g	NMKL 98:2005, OGYE-agar, 25°C, 5-7 days
Salmonella spp.	Not detected	Not detected	Internal method, SureTect real time PCR, confirmation NMKL 71:1999
ACTIVE COMPOUNDS			
Beta 1(3)-1(6) glucans in mushrooms used	≥ 18%	≥ 18%	Megazyme assay kit K-YBGL