

Endoca

Certificate of Analysis

Maitake Mushroom Extract

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 ISO 22000 certified
 HACCP certified; GMP certified

Responsible Supervisor:	<u>Martin V.</u>
Sample	<u>Batch 1MA</u>
Date samples received:	<u>29-January 2024</u>
Date analysis began:	<u>29-January 2024</u>
Date sample report produced:	<u>29-January 2024</u>
Expiry date:	<u>01-2027</u>
Sample Mass	<u>1 g</u>

Product Description	Maitake Mushroom extract	
Botanical Name	Grifola frondosa	
Origin	Fungal	
Part(s) of plant used	Mushroom (fruiting body)	
Appearance	Fine powder, brown	
Bulk Density	0.63 g/cc	
Smell	Characteristic	
Taste	Characterisctic	
Particle size	99% through 100 mesh	Result
Moisture level	≤ 10.0%	5.27%
Beta-Glucans	≥ 20.0%	25.0%
Alfa-Glucans	≤ 7%	3.40%
Shelf life	3 years	
Storage	Store at room temperature away from moisture and exposure to oxygen	
Ingredients:		
Grifola frondosa	100%	

MICROBIAL PROFILE

Component	Method	Unit	Specification	Result
<i>Listeria m.</i>	ISO 11290-1:2017	25 g	ND*	Conform
<i>E. coli</i>	ISO 16649-3:2015	CFU / 1 g	ND*	Conform
<i>Salmonella</i>	ISO 6579-1:2017	25 g	ND*	Conform
Yeast	ISO 7954:1999 (W)	CFU / 1 g	< 1.0x10 ²	< 1.0x10 ¹
Mould		CFU / 1 g	< 1.0x10 ²	< 1.0x10 ¹
Total microorganism	EN ISO 21528-2:2017	CFU / 1 g	< 1.0x10 ⁴	< 1.0x10 ¹

*ND - Not detected

MYCOTOXIN PROFILE

Test	Method	Unit	Specification	Result
Aflatoxin B1	PN-EN 14123:2008	µg/kg	0,10 (0,10 ± 0,04)	<LOQ
Aflatoxin B2	PN-EN 14123:2008	µg/kg	0,05 (0,05 ± 0,02)	<LOQ
Aflatoxin G1	PN-EN 14123:2008	µg/kg	0,10 (0,10 ± 0,04)	<LOQ
Aflatoxin G2	PN-EN 14123:2008	µg/kg	0,05 (0,05 ± 0,02)	<LOQ
Sum of aflatoxins B1, B2, G1, G2		µg/kg		
Ochratoxin A	PB-456 ed. I of 15.10.2021	µg/kg	0,25 (0,25 ± 0,08)	<LOQ

Heavy Metals Profile:

Test	Method	Unit	Specification	Result
Arsenic (As)	PN-EN 15763:2009	mg/kg	1,0 (1,00 ± 0,02)	<LOQ
Cadmium(Cd)	PN-EN 15763:2010	mg/kg	1,00 (1,00 ± 0,02)	<LOQ
Lead(Pb)	PN-EN 15763:2010	mg/kg	1,00 (1,00 ± 0,02)	<LOQ
Mercury (Hg)	PN-EN 15763:2010	mg/kg	0,010 (0,010 ± 0,002)	<LOQ
Chromium (Cr)	PN-EN 15763:2010	mg/kg	0,010 (0,010 ± 0,002)	<LOQ
Tin (Sn)	PN-EN 15763:2010	mg/kg	0,010 (0,010 ± 0,002)	<LOQ

Contaminants

Test	Method	Unit	Specification	Result
Pesticides resid.	Eur.Ph.2.8.13	mg/kg	Eur.Ph.2.8.13	<LOQ
Solvents resid.	Eur.Ph.7.0	mg/kg	Eur.Ph.2.4.24	<LOQ
PAH	Method610	µg/kg	≤50.0	<LOQ