

Certificate of Analysis

Oriveda BV

Sample Name:	#9 Maitake Grifolan extract (Grifola frondosa)	Eurofins Sample:	12014393
Project ID	ORIVED_HAR-20220729-0001	Receipt Date	29-Jul-2022
PO Number	NA	Receipt Condition	Ambient temperature
Lot Number	2022-2023	Login Date	29-Jul-2022
		Date Started	04-Aug-2022
		Sampled	Sample results apply as received
		Number Composited	5

Analysis	Result
Beta Glucan	
Beta Glucan	43.9 %
Total Polyphenols	
Total Polyphenols (Gallic Acid Equivalents)	11.0 mg/g

Method References	Testing Location
Beta Glucan (MISCYBGL_S)	Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
Megazyme Kit K-YBGL	
Total Polyphenols (TOTP_S)	Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
Reference: Abelson, J. N, M. I. Simon, and H. Sies. "Oxidants and Antioxidants Part A." Methods of Enzymology. 299:152-178 (1999). (modified).	

Testing Location(s)	Released on Behalf of Eurofins by
Food Integrity Innovation-Madison	Edward Ladwig - President Eurofins Food Chemistry Testing Madison
Eurofins Food Chemistry Testing Madison, Inc. 6304 Ronald Reagan Ave Madison WI 53704 800-675-8375	

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins. Measurement uncertainty for individual analyses can be obtained upon request.

Maitake GRIFOLAN


2023	levels (ppb)	levels in mg/g	levels per serving (mcg / 800 mg)
HEAVY METALS *			
Lead (Pb)	1052.304	0.001052304	0.8418
Arsenic (As)	110.275	0.000110275	0.0882
Cadmium (Cd)	552.244	0.000552244	0.4418
Mercury (Hg)	0	0.000000000	0.0000
COMPOUNDS			
Manganese (Mn)	11817.359	0.011817359	9.4539
Zinc (Zn)	43990.787	0.043990787	35.1926
Magnesium (Mg)	1220261.405	1.220261405	976.2091
Aluminum (Al)	80643.195	0.080643195	64.5146
Potassium (K)	29227091.187	29.227091187	23381.6729
Iron (Fe)	97284.384	0.097284384	77.8275
Copper (Cu)	11234.795	0.011234795	8.9878
Silver (Ag)	34.907	0.000034907	0.0279
Molybdenium (Mo)	184.101	0.000184101	0.1473
Selenium (Se)	177.797	0.000177797	0.1422
Nickel (Ni)	284.297	0.000284297	0.2274
Cromium (Cr)	948.8	0.000948800	0.7590
Vanadium (V)	161.869	0.000161869	0.1295
Caesium (Cs-133)	182.484	0.000182484	0.1460
Strontium (Sr-88)	6618.96	0.006618960	5.2952
Uranium (U)	16.655	0.000016655	0.0133

ESSENTIAL NUTRIENTS with a recommended daily value (FDA)	nutrient levels per serving (mcg / 800 mg)	FDA, recommended daily value (RDV in mcg), 4 years and older	percentage of RDV in this extract, per nutrient
Manganese (Mn)	9.4539	2000	0.47%
Zinc (Zn)	35.1926	15000	0.23%
Magnesium (Mg)	976.2091	400000	0.24%
Potassium (K)	23381.6729	3500000	0.67%
Iron (Fe)	77.8275	18000	0.43%
Copper (Cu)	8.9878	2000	0.45%
Molybdenium (Mo)	0.1473	75	0.20%
Selenium (Se)	0.1422	70	0.20%
Cromium (Cr)	0.7590	120	0.63%

ppb : parts per billion
mg : milligram; 1/1,000th of a gram
mcg : microgram; 1/1,000,000 of a gram
mcg/g : micrograms per gram
mg/g : milligrams per gram
serving: the recommended average daily dosage

* There is a great variation in what are considered safe levels of heavy metals in food, worldwide. Ideally they should take into account both the intake and the body weight of a person. More information: <https://is.gd/TLg3ha>

Below are the official EU and World Health Organisation / Joint Expert Committee on Food Additives (WHO / JECFA) guidelines.

Arsenic: (Adult, 70 kgs: 150 mcg = daily limit)
Cadmium: (Adult, 70 kgs: 70 mcg daily = daily limit)
Lead: (Adult, 70 kgs: 250 mcg daily = daily limit)
Mercury: (Adult, 70 kgs: 16 mcg daily = daily limit)



Metals Analysis Report



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FullQuant Table

Element	Mass	Conc.	Units	RSD(%)	Det.
Mg	24	1220261.405	ppb	1.3	Analog
Al	27	80643.195	ppb	2.5	Pulse
K	39	29227091.187	ppb	2.9	Analog
V	51	161.869	ppb	2.5	Pulse
Cr	52	948.800	ppb	1.0	Pulse
Mn	55	11817.359	ppb	1.9	Pulse
Fe	56	97284.384	ppb	2.1	Analog
Ni	60	284.297	ppb	2.7	Pulse
Cu	63	11234.795	ppb	1.7	Pulse
Zn	66	43990.787	ppb	0.5	Pulse
As	75	110.275	ppb	5.0	Pulse
Se	78	177.797	ppb	26.8	Pulse
Sr	88	6618.960	ppb	0.6	Pulse
Mo	95	184.101	ppb	2.8	Pulse
Ag	107	34.907	ppb	0.7	Pulse
Cd	111	277.718	ppb	1.6	Pulse
Cd	114	274.526	ppb	2.5	Pulse
Cs	133	182.484	ppb	0.6	Pulse
Hg	200	<0.000	ppb	N/A	Pulse
Hg	201	<0.000	ppb	N/A	Pulse
Hg	202	<0.000	ppb	N/A	Pulse
Pb	206	355.780	ppb	1.9	Pulse
Pb	207	347.702	ppb	0.8	Pulse
Pb	208	348.822	ppb	2.4	Pulse
U	238	16.655	ppb	0.2	Pulse

ISTD Table:

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
He	Sc	45	732331.91	0.1	132.0	Pulse	0.6000	3
He	Ge	72	70328.67	1.7	115.2	Pulse	0.6000	3
He	In	115	577653.59	1.3	113.4	Pulse	0.6000	3
He	Te	125	76074.01	0.6	118.1	Pulse	0.6000	3
He	Tb	159	1607215.25	1.4	114.6	Analog	0.6000	3
He	Bi	209	778352.43	0.7	96.6	Pulse	0.6000	3