

Certificate of Analysis

Oriveda BV

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Sample Name:	#9 Maitake Grifolan extract (Grifola frondosa)	Eurofins Sample:	10739840
Project ID	ORIVED_HAR-20210705-0001	Receipt Date	05-Jul-2021
PO Number	N/A	Receipt Condition	Ambient temperature
Lot Number	2021-2023	Login Date	05-Jul-2021
Sample Serving Size		Date Started	06-Jul-2021
		Sampled	Sample results apply as received
		Number Compositd	20

Analysis	Result
Beta Glucan	
Beta Glucan	43.8 %
Total Polyphenols	
Total Polyphenols (Gallic Acid Equivalents)	1.08 %

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

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

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Maitake GRIFOLAN


2021	levels (ppb)	levels in mg/g	levels per serving (mcg / 800 mg)
HEAVY METALS *			
Lead (Pb)	854.897	0.000854897	0.6839
Arsenic (As)	290.533	0.000290533	0.2324
Cadmium (Cd)	517.669	0.000517669	0.4141
Mercury (Hg)	0	0.000000000	0.0000
COMPOUNDS			
Manganese (Mn)	19324.877	0.019324877	15.4599
Zinc (Zn)	43828.573	0.043828573	35.0629
Magnesium (Mg)	1420341.168	1.420341168	1136.2729
Aluminum (Al)	52953.562	0.052953562	42.3628
Potassium (K)	29367211.042	29.367211042	23493.7688
Iron (Fe)	98813.741	0.098813741	79.0510
Copper (Cu)	16840.761	0.016840761	13.4726
Silver (Ag)	8.796	0.000008796	0.0070
Molybdenium (Mo)	226.8	0.000226800	0.1814
Selenium (Se)	19.969	0.000019969	0.0160
Nickel (Ni)	664.861	0.000664861	0.5319
Cromium (Cr)	1486.24	0.001486240	1.1890
Vanadium (V)	173.024	0.000173024	0.1384
Caesium (Cs-133)	139.389	0.000139389	0.1115
Strontium (Sr-88)	11961.912	0.011961912	9.5695
Uranium (U)	15.399	0.000015399	0.0123

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)	15.4599	2000	0.77%
Zinc (Zn)	35.0629	15000	0.23%
Magnesium (Mg)	1136.2729	400000	0.28%
Potassium (K)	23493.7688	3500000	0.67%
Iron (Fe)	79.0510	18000	0.44%
Copper (Cu)	13.4726	2000	0.67%
Molybdenium (Mo)	0.1814	75	0.24%
Selenium (Se)	0.0160	70	0.02%
Cromium (Cr)	1.1890	120	0.99%

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)



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FullQuant Table

Element	Mass	Conc.	Units	RSD(%)	Det.
Mg	24	1420341.168	ppb	2.1	Analog
Al	27	52953.562	ppb	1.8	Pulse
K	39	29367311.042	ppb	1.7	Analog
V	51	173.024	ppb	4.4	Pulse
Cr	52	1486.240	ppb	1.8	Pulse
Mn	55	19324.877	ppb	1.2	Pulse
Fe	56	98813.741	ppb	1.6	Analog
Ni	60	664.861	ppb	3.4	Pulse
Cu	63	16840.761	ppb	0.7	Pulse
Zn	66	43828.573	ppb	2.5	Pulse
As	75	290.533	ppb	7.7	Pulse
Se	78	19.969	ppb	250.8	Pulse
Sr	88	11961.912	ppb	3.3	Pulse
Mo	95	226.800	ppb	4.2	Pulse
Ag	107	8.796	ppb	125.1	Pulse
Cd	111	250.068	ppb	6.4	Pulse
Cd	114	267.601	ppb	4.0	Pulse
Cs	133	139.389	ppb	6.0	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	288.660	ppb	1.5	Pulse
Pb	207	275.839	ppb	2.0	Pulse
Pb	208	290.398	ppb	1.8	Pulse
U	238	15.399	ppb	9.9	Pulse

ISTD Table:

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
He	Sc	45	111273.16	1.5	109.8	Pulse	0.6000	3
He	Ge	72	8724.60	0.4	97.3	Pulse	0.6000	3
He	In	115	67631.54	0.8	96.5	Pulse	0.6000	3
He	Te	125	8608.52	2.4	97.8	Pulse	0.6000	3
He	Tb	159	187283.39	0.4	101.1	Pulse	0.6000	3
He	Bi	209	86819.24	0.3	93.5	Pulse	0.6000	3