

Certificate of Analysis

Oriveda BV

Sample Name:	#9 Maitake Grifolan Extract (Grifola Frondosa)	Eurofins Sample:	9471706
Project ID	ORIVED_HAR-20200427-0001	Receipt Date	27-Apr-2020
PO Number	NA	Receipt Condition	Ambient temperature
Lot Number	2020	Login Date	27-Apr-2020
Sample Serving Size		Date Started Sampled	30-Apr-2020 Sample results apply as received

Analysis	Result
Beta Glucan	
Beta Glucan	38.6 %
Total Polyphenols	
Total Polyphenols (Gallic Acid Equivalents)	14.6 mg/g

Method References	Testing Location
Beta Glucan (MISC_YBGL)	Food Integrity Innovation-Madison 3301 Kinsman Blvd Madison, WI 53704 USA
Megazyme Kit K-YBGL	
Total Polyphenols (TOTP_S)	Food Integrity Innovation-Madison 3301 Kinsman Blvd 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 - Director
Eurofins Food Chemistry Testing Madison, Inc. 3301 Kinsman Blvd 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.

Maitake GRIFOLAN

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2020	levels (ppb)	levels in mg/g	levels per serving (mcg / 800 mg)
HEAVY METALS *			
Lead (Pb)	849.231	0.000849231	0.6794
Arsenic (As)	287.053	0.000287053	0.2296
Cadmium (Cd)	548.093	0.000548093	0.4385
Mercury (Hg)	0	0.000000000	0.0000
COMPOUNDS			
Manganese (Mn)	16505.745	0.016505745	13.2046
Zinc (Zn)	43656.128	0.043656128	34.9249
Magnesium (Mg)	1431687.055	1.431687055	1145.3496
Aluminum (Al)	58525.341	0.058525341	46.8203
Potassium (K)	33719155.704	33.719155704	26975.3246
Iron (Fe)	99836.483	0.099836483	79.8692
Copper (Cu)	20126.773	0.020126773	16.1014
Silver (Ag)	0	0.000000000	0.0000
Molybdenium (Mo)	298.239	0.000298239	0.2386
Selenium (Se)	141.592	0.000141592	0.1133
Nickel (Ni)	432.915	0.000432915	0.3463
Cromium (Cr)	1007.697	0.001007697	0.8062
Vanadium (V)	161.575	0.000161575	0.1293
Caesium (Cs-133)	151.92	0.000151920	0.1215
Strontium (Sr-88)	8756.255	0.008756255	7.0050
Uranium (U)	17.574	0.000017574	0.0141

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)	13.2046	2000	0.66%
Zinc (Zn)	34.9249	15000	0.23%
Magnesium (Mg)	1145.3496	400000	0.29%
Potassium (K)	26975.3246	3500000	0.77%
Iron (Fe)	79.8692	18000	0.44%
Copper (Cu)	16.1014	2000	0.81%
Molybdenium (Mo)	0.2386	75	0.32%
Selenium (Se)	0.1133	70	0.16%
Cromium (Cr)	0.8062	120	0.67%

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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Operator: E.C.

File Name 060SMPL.d
File Path D:\Data\2020\2020-04-30 samples 6812 and up.b
Acq Time 4/30/2020 7:06:44 PM
Sample Name C1983
Sample Type Sample
Comment Oriveda Grifolan Maitake Extract 2020-04-29-21 Lot#VIDPS14Z8602R27V
Prep Dilution 117.3433
Auto Dilution 1.0000
Total Dilution 117.3433

Acq Mode Spectrum
Cal Title ---
Cal Type External Calibration
Last Calib 04/30/2020 20:06:46
Bkg File 003_BKG.d
Bkg Mode Count Subtraction except for ISTD
FQ BlankFile 018QBLK.d
VIS Fit Linear



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FullQuant Table

Element	Mass	Conc.	Units	RSD(%)	Det.
Mg	24	1431687.055	ppb	1.1	Analog
Al	27	58525.341	ppb	0.7	Pulse
K	39	33719155.704	ppb	1.4	Analog
V	51	161.575	ppb	2.4	Pulse
Cr	52	1007.697	ppb	1.7	Pulse
Mn	55	16505.745	ppb	0.6	Pulse
Fe	56	99836.483	ppb	0.9	Analog
Ni	60	432.915	ppb	3.7	Pulse
Cu	63	20126.773	ppb	0.2	Pulse
Zn	66	43656.128	ppb	1.4	Pulse
As	75	287.053	ppb	2.6	Pulse
Se	78	141.592	ppb	11.5	Pulse
Sr	88	8756.255	ppb	1.9	Pulse
Mo	95	298.239	ppb	4.5	Pulse
Ag	107	<0.000	ppb	N/A	Pulse
Cd	111	273.872	ppb	6.2	Pulse
Cd	114	274.221	ppb	0.6	Pulse
Cs	133	151.920	ppb	2.7	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	283.587	ppb	3.8	Pulse
Pb	207	283.982	ppb	1.0	Pulse
Pb	208	281.662	ppb	1.2	Pulse
U	238	17.574	ppb	4.1	Pulse

ISTD Table:

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
He	Sc	45	403429.73	3.0	120.0	Pulse	0.6000	3
He	Ge	72	40698.23	2.6	107.1	Pulse	0.6000	3
He	In	115	349615.85	1.5	101.5	Pulse	0.6000	3
He	Te	125	46416.22	1.8	105.5	Pulse	0.6000	3
He	Tb	159	746301.83	0.8	95.9	Pulse	0.6000	3
He	Bi	209	352059.65	0.3	82.5	Pulse	0.6000	3