

Certificate of Analysis

Oriveda BV

Sample Name:	#8 ABM extract (agaricus blazei Murrill)	Eurofins Sample:	12014392
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	6

Analysis	Result
Beta Glucan	
Beta Glucan	44.9 %
Total Polyphenols	
Total Polyphenols (Gallic Acid Equivalents)	8.34 mg/g

Method References	Testing Location
Beta Glucan (MISCYBGL_S)	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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ABM EXTRACT

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2023	levels (ppb)	levels in mg/g	levels per serving (mcg / 1050 mg)
HEAVY METALS *			
Lead (Pb)	136.464	0.000136464	0.1433
Arsenic (As)	584.823	0.000584823	0.6141
Cadmium (Cd)	609.463	0.000609463	0.6399
Mercury (Hg)	0	0.000000000	0.0000
COMPOUNDS			
Manganese (Mn)	4416.272	0.004416272	4.6371
Zinc (Zn)	8988.722	0.008988722	9.4382
Magnesium (Mg)	430668.732	0.430668732	452.2022
Aluminum (Al)	12133.754	0.012133754	12.7404
Potassium (K)	20625736.57	20.625736570	21657.0234
Iron (Fe)	2557.333	0.002557333	2.6852
Copper (Cu)	7314.635	0.007314635	7.6804
Silver (Ag)	16.135	0.000016135	0.0169
Molybdenium (Mo)	55.278	0.000055278	0.0580
Selenium (Se)	636.007	0.000636007	0.6678
Nickel (Ni)	60.138	0.000060138	0.0631
Cromium (Cr)	119.485	0.000119485	0.1255
Vanadium (V)	46.117	0.000046117	0.0484
Caesium (Cs-133)	319.03	0.000319030	0.3350
Strontium (Sr-88)	14810.618	0.014810618	15.5511
Uranium (U)	5.14	0.000005140	0.0054

ESSENTIAL NUTRIENTS with a recommended daily value (FDA)	nutrient levels per serving (mcg / 1050 mg)	FDA, recommended daily value (RDV in mcg), 4 years and older	percentage of RDV in this extract, per nutrient
Manganese (Mn)	4.6371	2000	0.23%
Zinc (Zn)	9.4382	15000	0.06%
Magnesium (Mg)	452.2022	400000	0.11%
Potassium (K)	21657.0234	3500000	0.62%
Iron (Fe)	2.6852	18000	0.01%
Copper (Cu)	7.6804	2000	0.38%
Molybdenium (Mo)	0.0580	75	0.08%
Selenium (Se)	0.6678	70	0.95%
Cromium (Cr)	0.1255	120	0.10%

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	430668.732	ppb	2.5	Analog
Al	27	12133.754	ppb	5.4	Pulse
K	39	20625736.570	ppb	3.0	Analog
V	51	46.117	ppb	7.0	Pulse
Cr	52	119.485	ppb	1.9	Pulse
Mn	55	4416.272	ppb	2.2	Pulse
Fe	56	25557.333	ppb	4.0	Analog
Ni	60	60.138	ppb	4.0	Pulse
Cu	63	7314.635	ppb	1.6	Pulse
Zn	66	8988.722	ppb	1.1	Pulse
As	75	584.823	ppb	4.2	Pulse
Se	78	636.007	ppb	14.0	Pulse
Sr	88	14810.618	ppb	0.3	Pulse
Mo	95	55.278	ppb	8.5	Pulse
Ag	107	16.135	ppb	10.3	Pulse
Cd	111	304.858	ppb	3.3	Pulse
Cd	114	304.605	ppb	4.7	Pulse
Cs	133	319.030	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	45.480	ppb	3.2	Pulse
Pb	207	45.763	ppb	3.6	Pulse
Pb	208	45.221	ppb	1.9	Pulse
U	238	5.140	ppb	4.7	Pulse

ISTD Table:

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
He	Sc	45	738495.91	0.7	133.1	Pulse	0.6000	3
He	Ge	72	72084.00	0.7	118.1	Pulse	0.6000	3
He	In	115	598593.27	0.8	117.5	Pulse	0.6000	3
He	Te	125	78352.05	1.0	121.7	Pulse	0.6000	3
He	Tb	159	1637779.10	1.0	116.8	Analog	0.6000	3
He	Bi	209	811435.85	0.3	100.7	Pulse	0.6000	3