

Certificate of Analysis

Oriveda BV

Sample Name:	#6 Lion#s Mane Mycelium extract - L+ AE (Heridium erinaceus)	Eurofins Sample:	12014390
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 Compositd	5

Analysis	Result
Beta Glucan	
Beta Glucan	11.8 %
Total Polyphenols	
Total Polyphenols (Gallic Acid Equivalents)	19.3 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
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Food Integrity Innovation-Madison	Edward Ladwig - President Eurofins Food Chemistry Testing Madison
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Eurofins Food Chemistry Testing Madison, Inc.
6304 Ronald Reagan Ave
Madison WI 53704
800-675-8375

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LION'S MANE MYCELIUM EXTRACT

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2023	levels (ppb)	levels in mg/g	levels per serving (mcg / 900 mg)
HEAVY METALS *			
Lead (Pb)	283.624	0.000283624	0.2553
Arsenic (As)	159.952	0.000159952	0.1440
Cadmium (Cd)	74.076	0.000074076	0.0667
Mercury (Hg)	0	0.000000000	0.0000
COMPOUNDS			
Manganese (Mn)	23330.065	0.023330065	20.9971
Zinc (Zn)	29357.991	0.029357991	26.4222
Magnesium (Mg)	2249821.963	2.249821963	2024.8398
Aluminum (Al)	74876.901	0.074876901	67.3892
Potassium (K)	29331736.352	29.331736352	26398.5627
Iron (Fe)	87570.865	0.087570865	78.8138
Copper (Cu)	2548.964	0.002548964	2.2941
Silver (Ag)	0	0.000000000	0.0000
Molybdenum (Mo)	754.51	0.000754510	0.6791
Selenium (Se)	67.843	0.000067843	0.0611
Nickel (Ni)	3982.494	0.003982494	3.5842
Cromium (Cr)	1126.092	0.001126092	1.0135
Vanadium (V)	109.175	0.000109175	0.0983
Caesium (Cs-133)	161.312	0.000161312	0.1452
Strontium (Sr-88)	28602.336	0.028602336	25.7421
Uranium (U)	15.207	0.000015207	0.0137

ESSENTIAL NUTRIENTS with a recommended daily value (FDA)	nutrient levels per serving (mcg / 900 mg)	FDA, recommended daily value (RDV in mcg), 4 years and older	percentage of RDV in this extract, per nutrient
Manganese (Mn)	20.9971	2000	1.05%
Zinc (Zn)	26.4222	15000	0.18%
Magnesium (Mg)	2024.8398	400000	0.51%
Potassium (K)	26398.5627	3500000	0.75%
Iron (Fe)	78.8138	18000	0.44%
Copper (Cu)	2.2941	2000	0.11%
Molybdenum (Mo)	0.6791	75	0.91%
Selenium (Se)	0.0611	70	0.09%
Cromium (Cr)	1.0135	120	0.84%

ppd : 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	2249821.963	ppb	2.5	Analog
Al	27	74876.901	ppb	2.5	Pulse
K	39	29331736.352	ppb	1.2	Analog
V	51	109.175	ppb	7.4	Pulse
Cr	52	1126.092	ppb	2.2	Pulse
Mn	55	23330.065	ppb	1.5	Pulse
Fe	56	87570.865	ppb	1.4	Analog
Ni	60	3982.494	ppb	1.0	Pulse
Cu	63	2548.964	ppb	2.2	Pulse
Zn	66	29357.991	ppb	0.9	Pulse
As	75	159.952	ppb	3.5	Pulse
Se	78	67.843	ppb	65.9	Pulse
Sr	88	28602.336	ppb	0.5	Analog
Mo	95	754.510	ppb	1.3	Pulse
Ag	107	<0.000	ppb	N/A	Pulse
Cd	111	36.089	ppb	4.0	Pulse
Cd	114	37.987	ppb	9.9	Pulse
Cs	133	161.312	ppb	0.8	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	97.312	ppb	2.0	Pulse
Pb	207	93.825	ppb	1.7	Pulse
Pb	208	92.487	ppb	1.1	Pulse
U	238	15.207	ppb	5.0	Pulse

ISTD Table:

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
He	Sc	45	728632.18	0.5	131.3	Pulse	0.6000	3
He	Ge	72	69468.26	1.7	113.8	Pulse	0.6000	3
He	In	115	569278.31	1.2	111.8	Pulse	0.6000	3
He	Te	125	76534.24	1.1	118.9	Pulse	0.6000	3
He	Tb	159	1552775.46	1.3	110.7	Analog	0.6000	3
He	Bi	209	764430.05	0.4	94.8	Pulse	0.6000	3

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		Number Compositd	6

Analysis	Result
Beta Glucan	
Beta Glucan	42.5 %
Total Polyphenols	
Total Polyphenols (Gallic Acid Equivalents)	3.94 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

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Food Integrity Innovation-Madison	Edward Ladwig - President Eurofins Food Chemistry Testing Madison

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800-675-8375

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LION'S MANE FRUITING BODY EXTRACT

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2023	levels (ppb)	levels in mg/g	levels per serving (mcg / 900 mg)
HEAVY METALS *			
Lead (Pb)	156.821	0.000156821	0.1411
Arsenic (As)	72.605	0.000072605	0.0653
Cadmium (Cd)	554.988	0.000554988	0.4995
Mercury (Hg)	0	0.000000000	0.0000
COMPOUNDS			
Manganese (Mn)	11361.423	0.011361423	10.2253
Zinc (Zn)	47186.344	0.047186344	42.4677
Magnesium (Mg)	751845.29	0.751845290	676.6608
Aluminum (Al)	7045.4	0.007045400	6.3409
Potassium (K)	29908240.004	29.908240004	26917.4160
Iron (Fe)	64237.854	0.064237854	57.8141
Copper (Cu)	6897.301	0.006897301	6.2076
Silver (Ag)	0.389	0.000000389	0.0004
Molybdenum (Mo)	65.498	0.000065498	0.0589
Selenium (Se)	90.647	0.000090647	0.0816
Nickel (Ni)	130.356	0.000130356	0.1173
Cromium (Cr)	292.958	0.000292958	0.2637
Vanadium (V)	31.529	0.000031529	0.0284
Caesium (Cs-133)	126.133	0.000126133	0.1135
Strontium (Sr-88)	6474.066	0.006474066	5.8267
Uranium (U)	9.277	0.000009277	0.0083

ESSENTIAL NUTRIENTS with a recommended daily value (FDA)	nutrient levels per serving (mcg / 900 mg)	FDA, recommended daily value (RDV in mcg), 4 years and older	percentage of RDV in this extract, per nutrient
Manganese (Mn)	10.2253	2000	0.51%
Zinc (Zn)	42.4677	15000	0.28%
Magnesium (Mg)	676.6608	400000	0.17%
Potassium (K)	26917.4160	3500000	0.77%
Iron (Fe)	57.8141	18000	0.32%
Copper (Cu)	6.2076	2000	0.31%
Molybdenum (Mo)	0.0589	75	0.08%
Selenium (Se)	0.0816	70	0.12%
Cromium (Cr)	0.2637	120	0.22%

ppd : 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

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Al	27	7045.400	ppb	4.0	Pulse
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V	51	31.529	ppb	19.9	Pulse
Cr	52	292.958	ppb	3.6	Pulse
Mn	55	11361.423	ppb	1.5	Pulse
Fe	56	64237.854	ppb	1.5	Analog
Ni	60	130.356	ppb	3.2	Pulse
Cu	63	6897.301	ppb	1.5	Pulse
Zn	66	47186.344	ppb	0.5	Pulse
As	75	72.605	ppb	5.8	Pulse
Se	78	90.647	ppb	20.6	Pulse
Sr	88	6474.066	ppb	1.6	Pulse
Mo	95	65.498	ppb	12.0	Pulse
Ag	107	0.389	ppb	509.2	Pulse
Cd	111	278.888	ppb	3.3	Pulse
Cd	114	276.100	ppb	2.1	Pulse
Cs	133	126.133	ppb	0.2	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	52.340	ppb	1.5	Pulse
Pb	207	52.612	ppb	7.6	Pulse
Pb	208	51.869	ppb	2.9	Pulse
U	238	9.277	ppb	20.7	Pulse

ISTD Table:

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
He	Sc	45	723360.18	0.6	130.4	Pulse	0.6000	3
He	Ge	72	68662.04	1.9	112.5	Pulse	0.6000	3
He	In	115	567785.95	1.9	111.5	Pulse	0.6000	3
He	Te	125	72957.78	1.6	113.3	Pulse	0.6000	3
He	Tb	159	1547808.13	1.2	110.4	Analog	0.6000	3
He	Bi	209	773963.68	0.6	96.0	Pulse	0.6000	3