

Certificate of Analysis

Oriveda BV

XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX

Sample Name:	#4 Reishi Primo extract (Ganoderma lucidum)	Eurofins Sample:	10739835
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	09-Jul-2021
		Sampled	Sample results apply as received
		Number Composited	20

Analysis	Result
Beta Glucan	
Beta Glucan	23.4 %
Total Polyphenols	
Total Polyphenols (Gallic Acid Equivalents)	1.75 %

Method References	Testing Location
Beta Glucan (MISC_YBGL)	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.

CERTIFICATE OF ANALYSIS

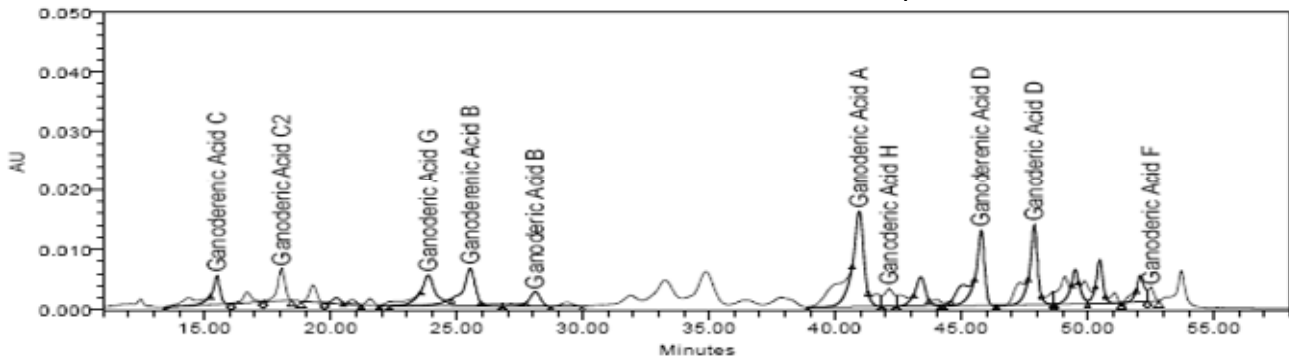


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Report Issued To: Oriveda BV
1054KL Amsterdam
The Netherlands

Sample Name: Oriveda Reishi Primo
Description: Capsule powder; Powder
Lot #: 2021-23
AL #: 21202FQD_1
Analysis ID: 161159
Received: 07/21/21

Determination of Ganoderic Acids Content by UPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Specification	Result
15.4	Ganoderic Acid C	0.061	0.060	0.061	N/A	N/A
18.0	Ganoderic Acid C2	0.129	0.122	0.126	N/A	N/A
23.9	Ganoderic Acid G	0.246	0.241	0.244	N/A	N/A
25.6	Ganoderic Acid B	0.124	0.116	0.120	N/A	N/A
28.1	Ganoderic Acid B	0.095	0.089	0.092	N/A	N/A
41.3	Ganoderic Acid A	0.548	0.523	0.536	N/A	N/A
42.3	Ganoderic Acid H	0.133	0.079	0.106	N/A	N/A
45.8	Ganoderic Acid D	0.174	0.173	0.174	N/A	N/A
48.0	Ganoderic Acid D	0.356	0.352	0.354	N/A	N/A
52.4	Ganoderic Acid F	0.058	0.050	0.054	N/A	N/A
	Total	1.926	1.804	1.865	>= 5%	Fail

Chromatographic Conditions:

Method: USP - Ganoderma Lucidum Fruiting Body Powder - Modified
 Column: AP283 ACQUITY UPLC HSS T3 1.8 µm (2.1 x 150 mm)
 Temperature: 25°C
 Flow Rate: 0.4 mL/min
 Injection Volume: 5 µL
 UV Detection: 257 nm
 Mobile Phase: 0.075% Phosphoric Acid in Water
 Acetonitrile
 HPLC Instrument: UPLC_1

Sample Preparation:

Transferred approximately 40 mg of sample into a 5 mL volumetric flask. Added 3 mL ethanol and vortexed for 30 seconds. Sonicated at 40 degrees C for 30 minutes. Let cool and filled to volume with ethanol. Filtered sample through a 0.2 µm syringe filter into an HPLC vial for analysis.

Report Summary:

Conclusion: The "Oriveda Reishi Primo" test sample contains an average of 2% total ganoderic acids on the as-is basis.
 OOS Reference: OOS-2021-522
 Fill weight: 345.14 mg
 Note: This method has not been validated for this sample matrix by Alkemist Labs.
 Notebook Reference: LC157 p.076

Analysis Date : 08/26/21

Analyzed By: JM Lopez

Authorized By: Celine Deneuve,
Analytical Chemistry Supervisor

REISHI PRIMO EXTRACT

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2021	levels (ppb)	levels in mg/g	levels per serving (mcg / 600 mg)
HEAVY METALS *			
Lead (Pb)	421.536	0.000421536	0.2529
Arsenic (As)	860.67	0.000860670	0.5164
Cadmium (Cd)	243.662	0.000243662	0.1462
Mercury (Hg)	0	0.000000000	0.0000
COMPOUNDS			
Manganese (Mn)	44420.121	0.044420121	26.6521
Zinc (Zn)	16447.706	0.016447706	9.8686
Magnesium (Mg)	948031.646	0.948031646	568.8190
Aluminum (Al)	186494.861	0.186494861	111.8969
Potassium (K)	23572946.008	23.572946008	14143.7676
Iron (Fe)	203631.99	0.203631990	122.1792
Copper (Cu)	6430.496	0.006430496	3.8583
Silver (Ag)	0	0.000000000	0.0000
Molybdenium (Mo)	89.788	0.000089788	0.0539
Selenium (Se)	147.096	0.000147096	0.0883
Nickel (Ni)	1586.703	0.001586703	0.9520
Cromium (Cr)	4467.45	0.004467450	2.6805
Vanadium (V)	332.688	0.000332688	0.1996
Caesium (Cs-133)	616.107	0.000616107	0.3697
Strontium (Sr-88)	24661.141	0.024661141	14.7967
Uranium (U)	17.399	0.000017399	0.0104

ESSENTIAL NUTRIENTS with a recommended daily value (FDA)	nutrient levels per serving (mcg / 600 mg)	FDA, recommended daily value (RDV in mcg), 4 years and older	percentage of RDV in this extract, per nutrient
Manganese (Mn)	26.6521	2000	1.33%
Zinc (Zn)	9.8686	15000	0.07%
Magnesium (Mg)	568.8190	400000	0.14%
Potassium (K)	14143.7676	3500000	0.40%
Iron (Fe)	122.1792	18000	0.68%
Copper (Cu)	3.8583	2000	0.19%
Molybdenium (Mo)	0.0539	75	0.07%
Selenium (Se)	0.0883	70	0.13%
Cromium (Cr)	2.6805	120	2.23%

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	948031.646	ppb	2.1	Analog
Al	27	186494.861	ppb	3.1	Pulse
K	39	23572946.008	ppb	3.2	Analog
V	51	332.688	ppb	1.2	Pulse
Cr	52	4467.450	ppb	2.4	Pulse
Mn	55	44420.121	ppb	3.2	Pulse
Fe	56	203631.990	ppb	3.5	Analog
Ni	60	1586.703	ppb	1.6	Pulse
Cu	63	6430.496	ppb	2.3	Pulse
Zn	66	16447.706	ppb	2.3	Pulse
As	75	860.670	ppb	6.5	Pulse
Se	78	147.096	ppb	65.2	Pulse
Sr	88	24661.141	ppb	1.4	Pulse
Mo	95	89.788	ppb	10.9	Pulse
Ag	107	<0.000	ppb	N/A	Pulse
Cd	111	118.353	ppb	20.7	Pulse
Cd	114	125.309	ppb	4.6	Pulse
Cs	133	616.107	ppb	3.3	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	145.673	ppb	8.3	Pulse
Pb	207	140.210	ppb	5.0	Pulse
Pb	208	135.653	ppb	1.0	Pulse
U	238	17.399	ppb	5.2	Pulse

ISTD Table:

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
He	Sc	45	113243.40	1.3	111.7	Pulse	0.6000	3
He	Ge	72	8944.18	0.3	99.8	Pulse	0.6000	3
He	In	115	68785.59	1.3	98.2	Pulse	0.6000	3
He	Te	125	9008.76	2.2	102.3	Pulse	0.6000	3
He	Tb	159	190771.06	1.7	103.0	Pulse	0.6000	3
He	Bi	209	89519.77	1.4	96.4	Pulse	0.6000	3