

## Certificate of Analysis

Oriveda BV

<b>Sample Name:</b>	<b>#4 Reishi Primo extract (Ganoderma lucidum)</b>	<b>Eurofins Sample:</b>	<b>12014388</b>
<b>Project ID</b>	ORIVED_HAR-20220729-0001	<b>Receipt Date</b>	29-Jul-2022
<b>PO Number</b>	NA	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	2022-2023	<b>Login Date</b>	29-Jul-2022
		<b>Date Started</b>	04-Aug-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	6

Analysis	Result
<b>Beta Glucan</b>	
Beta Glucan	25.4 %
<b>Total Polyphenols</b>	
Total Polyphenols (Gallic Acid Equivalents)	17.1 mg/g

Method References	Testing Location
<b>Beta Glucan (MISCYBGL_S)</b>	<b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA
Megazyme Kit K-YBGL	
<b>Total Polyphenols (TOTP_S)</b>	<b>Food Integrity Innovation-Madison</b> 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
<b>Food Integrity Innovation-Madison</b>	<b>Edward Ladwig - President Eurofins Food Chemistry Testing Madison</b>
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

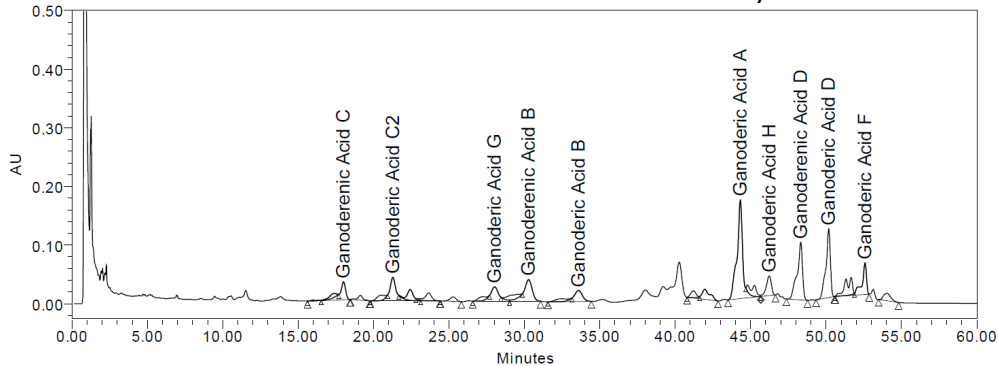


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**Report Issued To:** Oriveda BV  
1054KL Amsterdam  
The Netherlands

**Sample Name:** Oriveda Reishi Primo  
**Description:** Capsule powder; Capsule  
**Lot #:** 2022-2024  
**AL #:** 22213PXX\_1  
**Analysis ID:** 183198  
**Received:** 08/01/22

## Determination of Ganoderic Acids Content by UPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Average (mg/cap)	Specification	Result
18.0	Ganoderic Acid C	0.051	0.069	0.060	0.182	N/A	N/A
21.3	Ganoderic Acid C2	0.167	0.159	0.163	0.494	N/A	N/A
28.0	Ganoderic Acid G	0.139	0.202	0.170	0.516	N/A	N/A
30.3	Ganoderic Acid B	0.079	0.091	0.085	0.257	N/A	N/A
33.6	Ganoderic Acid B	0.098	0.101	0.100	0.302	N/A	N/A
44.3	Ganoderic Acid A	0.524	0.532	0.528	1.600	N/A	N/A
46.2	Ganoderic Acid H	0.141	0.143	0.142	0.430	N/A	N/A
48.3	Ganoderic Acid D	0.145	0.151	0.148	0.449	N/A	N/A
50.2	Ganoderic Acid D	0.307	0.310	0.308	0.934	N/A	N/A
52.6	Ganoderic Acid F	0.196	0.216	0.206	0.624	N/A	N/A
	Total	1.847	1.974	1.911	5.787	Report Only	N/A

### Chromatographic Conditions:

Method: USP - Ganoderma Lucidum Fruiting Body Powder  
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  
Acetonitrile  
HPLC Instrument: UPLC\_1

### Sample Preparation:

Mixed sample well. Transferred approximately 2 g of sample into a 250 mL round bottom flask. Added 75 mL of ethanol and refluxed for 45 minutes. Let cool and filtered into another 250 mL round bottom flask, rinsing the first flask two times with 10 mL ethanol and transferring into flask. Evaporated to dryness. Added 5mL of ethanol. Swirled flask to dissolve residue and transferred to a 25 mL volumetric flask. Filled to volume with ethanol and mixed well. Filtered through a 0.2 µm nylon filter into an HPLC vial for analysis, discarding the first mL of filtrate.

### Report Summary:

Conclusion: The "Oriveda Reishi Primo" test sample contains an average of 6 mg/capsule total triterpenoic acids on the as-is basis.  
Fill Weight: 1 capsule = 302.873 mg  
OOS Reference: N/A  
Empower File: 22922 Ganoderma

**Analysis Date : 08/18/22      Analyzed By: D Jimenez**

**Authorized By: Celine Deneuve,  
Analytical Chemistry Supervisor**

**REISHI PRIMO EXTRACT**

oriveda

2023	levels (ppb)	levels in mg/g	levels per serving (mcg / 600 mg)
<b>HEAVY METALS *</b>			
Lead (Pb)	841.354	0.000841354	0.5048
Arsenic (As)	970.257	0.000970257	0.5822
Cadmium (Cd)	415.84	0.000415840	0.2495
Mercury (Hg)	0	0.000000000	0.0000
<b>COMPOUNDS</b>			
Manganese (Mn)	37881.646	0.037881646	22.7290
Zinc (Zn)	32495.8	0.032495800	19.4975
Magnesium (Mg)	1213937.807	1.213937807	728.3627
Aluminum (Al)	301487.87	0.301487870	180.8927
Potassium (K)	29620931.008	29.620931008	17772.5586
Iron (Fe)	334620.56	0.334620560	200.7723
Copper (Cu)	6664.714	0.006664714	3.9988
Silver (Ag)	19.067	0.000019067	0.0114
Molybdenum (Mo)	103.112	0.000103112	0.0619
Selenium (Se)	124.087	0.000124087	0.0745
Nickel (Ni)	2973.145	0.002973145	1.7839
Cromium (Cr)	5182.293	0.005182293	3.1094
Vanadium (V)	466.405	0.000466405	0.2798
Caesium (Cs-133)	688.716	0.000688716	0.4132
Strontium (Sr-88)	53112.946	0.053112946	31.8678
Uranium (U)	29.451	0.000029451	0.0177

<b>ESSENTIAL NUTRIENTS with a recommended daily value (FDA)</b>	<b>nutrient levels per serving (mcg / 600 mg)</b>	<b>FDA, recommended daily value (RDV in mcg), 4 years and older</b>	<b>percentage of RDV in this extract, per nutrient</b>
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Manganese (Mn)	22.7290	2000	1.14%
Zinc (Zn)	19.4975	15000	0.13%
Magnesium (Mg)	728.3627	400000	0.18%
Potassium (K)	17772.5586	3500000	0.51%
Iron (Fe)	200.7723	18000	1.12%
Copper (Cu)	3.9988	2000	0.20%
Molybdenum (Mo)	0.0619	75	0.08%
Selenium (Se)	0.0745	70	0.11%
Cromium (Cr)	3.1094	120	2.59%

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	1213937.807	ppb	2.6	Analog
Al	27	301487.870	ppb	2.7	Analog
K	39	29620931.008	ppb	2.7	Analog
V	51	466.405	ppb	2.2	Pulse
Cr	52	5182.293	ppb	1.8	Pulse
Mn	55	37881.646	ppb	2.4	Analog
Fe	56	334620.560	ppb	2.6	Analog
Ni	60	2973.145	ppb	1.4	Pulse
Cu	63	6664.714	ppb	1.8	Pulse
Zn	66	32495.800	ppb	0.9	Pulse
As	75	970.257	ppb	2.4	Pulse
Se	78	124.087	ppb	59.3	Pulse
Sr	88	53112.946	ppb	1.3	Analog
Mo	95	103.112	ppb	2.2	Pulse
Ag	107	19.067	ppb	5.7	Pulse
Cd	111	208.143	ppb	3.5	Pulse
Cd	114	207.697	ppb	1.6	Pulse
Cs	133	688.716	ppb	1.1	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	284.743	ppb	3.8	Pulse
Pb	207	275.517	ppb	2.2	Pulse
Pb	208	281.094	ppb	1.1	Pulse
U	238	29.451	ppb	1.6	Pulse

## ISTD Table:

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
He	Sc	45	723458.27	0.9	130.4	Pulse	0.6000	3
He	Ge	72	69178.62	2.1	113.4	Pulse	0.6000	3
He	In	115	566482.16	1.5	111.2	Pulse	0.6000	3
He	Te	125	77006.51	1.4	119.6	Pulse	0.6000	3
He	Tb	159	1556092.33	0.6	111.0	Analog	0.6000	3
He	Bi	209	767280.54	0.8	95.2	Pulse	0.6000	3