

## Certificate of Analysis

Oriveda BV

<b>Sample Name:</b>	<b>Chaga Extract (Inontus Obliquus)</b>	<b>Eurofins Sample:</b>	<b>8380973</b>
<b>Project ID</b>	ORIVED_HAR-20190424-0002	<b>Receipt Date</b>	24-Apr-2019
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	2019	<b>Login Date</b>	24-Apr-2019
<b>Sample Serving Size</b>	1 Cap	<b>Date Started</b>	26-Apr-2019
		<b>Online Order</b>	0

### Analysis

### Result

#### Beta Glucan

Beta Glucan 30.5 %

#### Calculated Sample Weight

Entity Weight 0.3969 g

Entity Fill Weight 0.3030 g

#### Total Polyphenols

Total Polyphenols (Gallic Acid Equivalents) 3.73 %

### Method References

### Testing Location

#### Beta Glucan (MISC\_YBGL)

Food Integrity Innovation-Madison

Megazyme Kit K-YBGL

#### Calculated Sample Weight (PREP)

Food Integrity Innovation-Madison

#### Total Polyphenols (TOTP\_S)

Food Integrity Innovation-Madison

Methods of Enzymology, Volume 299, Oxidants and Antioxidants Part A,  
Pages 152-178, 1999 (modified).

### Testing Location(s)

### Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

Edward Ladwig - Director

Eurofins Food Chemistry Testing US, 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.

**Certificate Issued To:**  
**ORIVeDA**



Work performed at:  
**International RINP, Inc.**  
23151 Verdugo Dr., Suite 101  
Laguna Hills, CA 92653  
Phone: (949) 916-0780  
FAX: (949) 916-2820  
E-mail: rinp1@live.com  
Website: www.internationalrinp.com

**FDA Registration No. 18174842550**

**Certificate of Analysis:**

Determination of Betulinic Acid and Triterpenes in OrIVeDA Chaga Extract by HPLC Method

Company Name: ORIVeDA  
Sample Description: OrIVeDA Chaga Extract  
Received Date: 04-06-19  
Lot Number: N/A  
Lab Number: L#13915  
Payment Method: Paypal

**The analysis results**

Sample	Lab#	Analyses	Target	Results
OrIVeDA Chaga Extract	L#13915	Betulinic Acid	NLT 2%	2.42%
OrIVeDA Chaga Extract	L#13915	Triterpenes	NLT 2%	3.57%

A handwritten signature in black ink that reads 'Hongyan Wang'.

Approved by:

Hongyan Wang, President/PhD

Report Date: 04-23-19

**CHAGA EXTRACT**

oriveda

2019	levels (ppb)	levels in mg/g	levels per serving (mcg / 900 mg)
<b>HEAVY METALS *</b>			
Lead (Pb)	1647.44	0.00164744	1.4827
Arsenic (As)	265.171	0.000265171	0.2387
Cadmium (Cd)	247.04	0.00024704	0.2223
Mercury (Hg)	0	0	0.0000
<b>COMPOUNDS</b>			
Manganese (Mn)	83129.064	0.083129064	74.8162
Zinc (Zn)	35989.134	0.035989134	32.3902
Magnesium (Mg)	1408407.093	1.408407093	1267.5664
Aluminum (Al)	79796.144	0.079796144	71.8165
Potassium (K)	53584154.467	53.584154467	48225.7390
Iron (Fe)	322135.41	0.32213541	289.9219
Copper (Cu)	5756.857	0.005756857	5.1812
Silver (Ag)	244.411	0.000244411	0.2200
Molybdenium (Mo)	47.488	4.7488E-05	0.0427
Selenium (Se)	50.037	5.0037E-05	0.0450
Nickel (Ni)	1830.629	0.001830629	1.6476
Cromium (Cr)	3273.194	0.003273194	2.9459
Vanadium (V)	228.686	0.000228686	0.2058
Caesium (Cs-133)	552.329	0.000552329	0.4971
Strontium (Sr-88)	14445.338	0.014445338	13.0008
Uranium (U)	15.461	1.5461E-05	0.0139

<b>ESSENTIAL NUTRIENTS with a recommended daily value (FDA)</b>	<b>nutrient levels per serving (mcg / 900 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>
Manganese (Mn)	74.8162	2000	3.74%
Zinc (Zn)	32.3902	15000	0.22%
Magnesium (Mg)	1267.5664	400000	0.32%
Potassium (K)	48225.7390	3500000	1.38%
Iron (Fe)	289.9219	18000	1.61%
Copper (Cu)	5.1812	2000	0.26%
Molybdenium (Mo)	0.0427	75	0.06%
Selenium (Se)	0.0450	70	0.06%
Cromium (Cr)	2.9459	120	2.45%

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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**Operator:** E.C.

<b>File Name</b>	056SMPL.d
<b>File Path</b>	D:\Data\2019\2019-04-15 samples 5726 and up.b
<b>Acq Time</b>	4/15/2019 1:55:36 PM
<b>Sample Name</b>	C1823
<b>Sample Type</b>	Sample
<b>Comment</b>	ORIVeDA Chaga (Inonotus obliquus) extract 2019-04-10-26 Lot#VID6BVJ22E35RWUG
<b>Prep Dilution</b>	124.2236
<b>Auto Dilution</b>	1.0000
<b>Total Dilution</b>	124.2236
<b>Acq Mode</b>	Spectrum
<b>Cal Title</b>	---
<b>Cal Type</b>	External Calibration
<b>Last Calib</b>	04/15/2019 14:42:52
<b>Bkg File</b>	003_BKG.d
<b>Bkg Mode</b>	Count Subtraction except for ISTD
<b>FQ BlankFile</b>	018QBLK.d
<b>VIS Fit</b>	Linear



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### FullQuant Table

Element	Mass	Conc.	Units	RSD(%)	Det.
Mg	24	1408407.093	ppb	3.3	Analog
Al	27	79796.144	ppb	1.8	Pulse
K	39	53584154.467	ppb	3.1	Analog
V	51	228.686	ppb	3.0	Pulse
Cr	52	3273.194	ppb	2.9	Pulse
Mn	55	83129.064	ppb	2.7	Analog
Fe	56	322135.410	ppb	2.4	Analog
Ni	60	1830.629	ppb	3.6	Pulse
Cu	63	5756.857	ppb	2.8	Pulse
Zn	66	35989.134	ppb	2.3	Pulse
As	75	265.171	ppb	4.5	Pulse
Se	78	50.037	ppb	117.3	Pulse
Sr	88	14445.338	ppb	2.9	Pulse
Mo	95	47.448	ppb	3.0	Pulse
Ag	107	244.411	ppb	48.4	Pulse
Cd	111	125.899	ppb	2.7	Pulse
Cd	114	121.141	ppb	7.3	Pulse
Cs	133	552.329	ppb	0.9	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	552.254	ppb	3.0	Pulse
Pb	207	541.685	ppb	4.4	Pulse
Pb	208	553.501	ppb	2.6	Pulse
U	238	15.461	ppb	8.0	Pulse

### ISTD Table:

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
He	Sc	45	488516.51	1.3	79.3	Pulse	0.3000	3
He	Ge	72	55213.07	0.7	77.7	Pulse	0.3000	3
He	In	115	498168.23	1.2	76.0	Pulse	0.3000	3
He	Te	125	72499.88	0.9	83.9	Pulse	0.3000	3
He	Tb	159	1495893.94	1.7	81.6	Analog	0.2000	3
He	Bi	209	858611.65	0.7	73.1	Pulse	0.2000	3