



IAS Laboratories

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Date Received: September 08, 2020

Submitted By: Marra

Work Order: 2010069

Report To: Oriveda Bv

Project: Shilajit-Mumio

Sample Results

Sample Name: Shilajit-Mumio

IAS Lab ID: 2010069-01 (Other)

	Result	MRL	Units	Method
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Organic Acids

Fulvic Acid	15.85	<0.01	%	IHSS/Lamar/AOAC
Humic Acid	6.91	<0.01	%	IHSS/Lamar/AOAC

Chemical Properties

Sulfur (S)	0.816	<0.0001	%	EPA 3050B
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Physical Properties

Moisture	20.09	<0.01	%	AOAC 967.03
Organic Matter	53.51	<0.01	%	AOAC 967.05

MRL: Minimum Reporting Limit

ND: None Detected

*The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.*

SHILAJIT • MUMIJO

oriveda

2020	levels (ppb)	levels in mg/g	levels per 300 mg serving (in mcg)
HEAVY METALS *			
Lead (Pb)	4949.406	0.004949406	1.4848
Arsenic (As)	797.19	0.000797190	0.2392
Cadmium (Cd)	327.758	0.000327758	0.0983
Mercury (Hg)	0	0.000000000	0.0000
COMPOUNDS			
Manganese (Mn)	106675.535	0.106675535	32.0027
Zinc (Zn)	34573.871	0.034573871	10.3722
Magnesium (Mg)	11701313.886	11.701313886	3510.3942
Aluminum (Al)	830719.587	0.830719587	249.2159
Potassium (K)	89138625.587	89.138625587	26741.5877
Iron (Fe)	1057982.772	1.057982772	317.3948
Copper (Cu)	8194.491	0.008194491	2.4583
Silver (Ag)	0	0.000000000	0.0000
Molybdenium (Mo)	1691.119	0.001691119	0.5073
Selenium (Se)	396.956	0.000396956	0.1191
Nickel (Ni)	2707.915	0.002707915	0.8124
Cromium (Cr)	1446.271	0.001446271	0.4339
Vanadium (V)	1918.141	0.001918141	0.5754
Caesium (Cs-133)	625.623	0.000625623	0.1877
Strontium (Sr-88)	91173.525	0.091173525	27.3521
Uranium (U)	349.151	0.000349151	0.1047

ESSENTIAL NUTRIENTS with a recommended daily value (FDA)	nutrient levels per serving (mcg / 300 mg)	FDA, recommended daily value (RDV in mcg), 4 years and older	percentage of RDV in this extract, per nutrient
Manganese (Mn)	32.0027	2000	1.60%
Zinc (Zn)	10.3722	15000	0.07%
Magnesium (Mg)	3510.3942	400000	0.88%
Potassium (K)	26741.5877	3500000	0.76%
Iron (Fe)	317.3948	18000	1.76%
Copper (Cu)	2.4583	2000	0.12%
Molybdenium (Mo)	0.5073	75	0.68%
Selenium (Se)	0.1191	70	0.17%
Cromium (Cr)	0.4339	120	0.36%

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 (here: 300 mg daily (Adult))

* 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)



CWC LABS

Metals Analysis Report



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Operator: E.C.

File Name 070SMPL.d
File Path D:\Data\2020\2020-04-30 samples 6812 and up.b
Acq Time 4/30/2020 7:28:12 PM
Sample Name C1991
Sample Type Sample
Comment Oriveda Shilajit 2020-04-29-29 Lot#VID27F4N635XN0BA
Prep Dilution 186.0119
Auto Dilution 1.0000
Total Dilution 186.0119

Acq Mode Spectrum
Cal Title ---
Cal Type External Calibration
Last Calib 04/30/2020 20:06:46
Bkg File 003_BKG.d
Bkg Mode Count Subtraction except for ISTD
FQ BlankFile 018QBLK.d
VIS Fit Linear



Metals Analysis Report



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FullQuant Table

Element	Mass	Conc.	Units	RSD(%)	Det.
Mg	24	11701313.886	ppb	2.3	Analog
Al	27	830719.709	ppb	0.1	Analog
K	39	89138625.587	ppb	1.5	Analog
V	51	1918.141	ppb	1.5	Pulse
Cr	52	1446.271	ppb	0.6	Pulse
Mn	55	106675.535	ppb	1.2	Analog
Fe	56	1057982.772	ppb	0.8	Analog
Ni	60	2707.915	ppb	1.7	Pulse
Cu	63	8194.491	ppb	0.6	Pulse
Zn	66	34573.871	ppb	0.9	Pulse
As	75	797.190	ppb	1.3	Pulse
Se	78	396.956	ppb	23.3	Pulse
Sr	88	91173.525	ppb	0.8	Analog
Mo	95	1691.119	ppb	1.2	Pulse
Ag	107	<0.000	ppb	N/A	Pulse
Cd	111	164.209	ppb	7.1	Pulse
Cd	114	163.549	ppb	3.4	Pulse
Cs	133	625.623	ppb	1.9	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	1699.551	ppb	2.5	Pulse
Pb	207	1600.883	ppb	2.6	Pulse
Pb	208	1648.972	ppb	1.0	Pulse
U	238	349.151	ppb	2.6	Pulse

ISTD Table:

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
He	Sc	45	411383.80	3.5	122.3	Pulse	0.6000	3
He	Ge	72	40259.40	3.3	106.0	Pulse	0.6000	3
He	In	115	326748.56	1.8	94.8	Pulse	0.6000	3
He	Te	125	40294.20	0.4	91.6	Pulse	0.6000	3
He	Tb	159	691996.74	0.5	88.9	Pulse	0.6000	3
He	Bi	209	313840.14	0.3	73.5	Pulse	0.6000	3