



IAS Laboratories

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Submitted by: Oriveda BV

Report to: MARRA@ORIVEDA.COM

Report #: 6658221

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Humic and Fulvic Analysis

Sender ID	IAS Lab #	* Humic Acid %	* Fulvic Acid %	* Moisture %	* Organic Matter %	** Sulfur %
Oriveda Shilajit-MUMIJO 45g	785	8.38	29.63	19.81	53.50	0.82

* AOAC Vol.97 - Lemar/IHSS

** EPA 6010B - ICP OES

Calculations based on a sample analysis by CWC-Labs, USA, which is attached for reference

SHILAJIT • MUMIJO



	levels (ppb)	levels in mg/g	levels per 300 mg serving (in mcg) body weight 70-80 kgs
HEAVY METALS *			
Lead (Pb)	1962	0.001962	0.5886
Arsenic (As)	458	0.000458	0.1374
Cadmium (Cd)	144	0.000144	0.0432
Mercury (Hg)	0	0	0.0000
COMPOUNDS			
Manganese (Mn)	58597	0.058597	17.5791
Zinc (Zn)	17796	0.017796	5.3388
Magnesium (Mg)	9181362	9.181362	2754.4086
Aluminum (Al)	297497	0.297497	89.2491
Potassium (K)	67956993	67.956993	20387.0979
Iron (Fe)	398110	0.39811	119.4330
Copper (Cu)	5366	0.005366	1.6098
Silver (Ag)	0	0	0.0000
Molybdenium (Mo)	848	0.000848	0.2544
Selenium (Se)	165	0.000165	0.0495
Nickel (Ni)	1689	0.001689	0.5067
Cromium (Cr)	624	0.000624	0.1872
Vanadium (V)	757	0.000757	0.2271
Caesium (Cs-133)	248	0.000248	0.0744
Strontium (Sr-88)	73519	0.073519	22.0557
Uranium (U)	148	0.000148	0.0444

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)	17.5791	2000	0.88%
Zinc (Zn)	5.3388	15000	0.04%
Magnesium (Mg)	2754.4086	40000	6.89%
Potassium (K)	20387.0979	3500000	0.58%
Iron (Fe)	119.4330	18000	0.66%
Copper (Cu)	1.6098	2000	0.08%
Molybdenium (Mo)	0.2544	75	0.34%
Selenium (Se)	0.0495	70	0.07%
Cromium (Cr)	0.1872	120	0.16%

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 (here: 300 mg daily (Adult, 70-80 kgs))

* 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.

File Name 063SMPL.d
File Path D:\Data\2016-11-17 samples 3407 and up.b
Acq Time 11/17/2016 4:10:06 PM
Sample Name C1178
Sample Type Sample
Comment Shilajit sample 2016-11-15-06 Lot#VIDHJDRS0PTN25EH
Prep Dilution 108.3658
Auto Dilution 1.0000
Total Dilution 108.3658

Acq Mode Spectrum
Cal Title ---
Cal Type External Calibration
Last Calib 11/17/2016 14:40:19
Bkg File 003_BKG.d
Bkg Mode Count Subtraction except for ISTD
FQ BlankFile 018QBLK.d
VIS Fit Linear



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FullQuant Table

Element	Mass	Conc.	Units	RSD(%)	Det.
Mg	24	9181362.458	ppb	1.2	Analog
Al	27	297496.952	ppb	2.0	Analog
K	39	67956993.254	ppb	1.7	Analog
V	51	757.254	ppb	1.4	Pulse
Cr	52	624.225	ppb	1.9	Pulse
Mn	55	58597.251	ppb	0.9	Analog
Fe	56	398110.512	ppb	1.8	Analog
Ni	60	1689.456	ppb	2.0	Pulse
Cu	63	5366.756	ppb	2.5	Analog
Zn	66	17796.613	ppb	0.9	Pulse
As	75	458.258	ppb	2.2	Pulse
Se	78	165.171	ppb	12.6	Pulse
Sr	88	73519.948	ppb	1.1	Analog
Mo	95	848.321	ppb	1.3	Pulse
Ag	107	<0.000	ppb	N/A	Pulse
Cd	111	70.706	ppb	1.7	Pulse
Cd	114	73.791	ppb	1.0	Pulse
Cs	133	248.354	ppb	0.1	Pulse
Au	197	<0.000	ppb	N/A	Analog
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	690.513	ppb	0.9	Pulse
Pb	207	615.394	ppb	0.9	Pulse
Pb	208	657.392	ppb	0.1	Pulse
U	238	148.076	ppb	0.2	Pulse

ISTD Table:

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
He	Sc	45	2172815.61	6.1	117.9	Analog	0.3000	3
He	Ge	72	229483.96	5.4	107.4	Pulse	0.3000	3
He	In	115	3165626.13	4.5	99.0	Analog	0.3000	3
He	Te	125	370965.57	3.6	119.1	Pulse	0.3000	3
He	Tb	159	6976932.19	1.9	89.8	Analog	0.2000	3
He	Bi	209	4584540.04	0.9	77.3	Analog	0.2000	3