

CERTIFICATE OF ANALYSES (COA)

77-23

Name of Product: «Dietary Supplement Shilajit (Mumijo)»

Net Weight: Capsules size «0» (500 mg) bulk

Qty: 200 kg; **batch No:** 06.23

Manufacture Date: 15th June 2023 / **Expiration Date:** 15th June 2027

Normative Documents: Technical conditions 377-029-14729213-05; Technical Regulations of the Customs Union « On the safety of Food Products» TR CU 021/2011

TECHNICAL SPECIFICATION

Name of Indicators, Ingredients	Results	Permissible Levels	Test Method
Heavy metals; Microbial attributes; Authenticity			
Lead mg/kg	0.46	not more 6	GOST 26929-94
Cadmium mg/kg	0.085	not more 1	GOST 26929-94
Arsenic mg/kg	0.55	not more 12	GOST 31628-2012
Mercury mg/kg	Less than 0.08	not more 1	GOST 34427-2018
Heptachlor mg/kg	Not detected	not more 0.01	MU 2142-80
Aldrin mg/kg	Not detected	not more 0.01	MU 2142-80
Pathogenic flora, including salmonella, in 10,0 gm.	Not detected in 10 gm	Not allowed in 10 gm	GOST 31659-2012
Quantity of Mesophilic Aerobic and Facultative Anaerobic Microorganisms, CFU/gm not more than	Less than 1×10^2	not more 1×10^4	GOST 10444.15-94
Pathogenic Bacteria (coliform) in 0,1 gm.	Not detected in 0.1 gm	Not allowed	GOST 31747-2012
Staphylococcus Aureus in 1 gm	Not detected in 0.1 gm	Not allowed	GOST 31747-2012
B.cereus, CFU/gm not more than	Not detected in 200 gm	not more 2×10^2	GOST 10444.8-2013
Yeast and mold CFU/gm not more than	Not detected	not more 10	GOST 10444.8-2013
Test for authenticity	Authentic	Authentic	
Taste	Conforms	Fine powder brown or black colour	
Color	Conforms	Bitter – tart	

Metal report and Chemical elements

Name	Results	Test Method	Name	Results	Test Method
Beryllium mg/kg	< 0.05	PND F 16.1:2.3:3.11-98	Silver mg/kg	0.45	PND F 16.1:2.3:3.11-98
Vanadium mg/kg	4.7	PND F 16.1:2.3:3.11-98	Thallium mg/kg	< 0.1	PND F 16.1:2.3:3.11-98
Tungsten mg/kg	7.6	PND F 16.1:2.3:3.11-98	Tellurium mg/kg	< 0.1	PND F 16.1:2.3:3.11-98
Lanthanum mg/kg	0.44	PND F 16.1:2.3:3.11-98	Titanium mg/kg	6.3	PND F 16.1:2.3:3.11-98
Tin mg/kg	0.7	PND F 16.1:2.3:3.11-98	Aluminum mg/kg	720	PND F 16.1:2.3:3.11-98
Barium mg/kg	14.6	PND F 16.1:2.3:3.11-98	Magnesium mg/kg	4510	PND F 16.1:2.3:3.11-98
Boron mg/kg	54	PND F 16.1:2.3:3.11-98	Manganese mg/kg	75	PND F 16.1:2.3:3.11-98
Bismuth mg/kg	< 0.1	PND F 16.1:2.3:3.11-98	Copper mg/kg	12.5	PND F 16.1:2.3:3.11-98
Iron mg/kg	480	PND F 16.1:2.3:3.11-98	Molybdenum mg/kg	0.7	PND F 16.1:2.3:3.11-98
Potassium mg/kg	3850	PND F 16.1:2.3:3.11-98	Sodium mg/kg	780	PND F 16.1:2.3:3.11-98
Calcium mg/kg	6404	PND F 16.1:2.3:3.11-98	Nickel mg/kg	55	PND F 16.1:2.3:3.11-98
Cobalt mg/kg	< 0.1	PND F 16.1:2.3:3.11-98	Selenium mg/kg	1.4	PND F 16.1:2.3:3.11-98
Lithium mg/kg	3.5	PND F 16.1:2.3:3.11-98	Antimony mg/kg	< 0.1	PND F 16.1:2.3:3.11-98
Chorm mg/kg	< 0.1	PND F 16.1:2.3:3.11-98	Phosphorus mg/kg	920	PND F 16.1:2.3:3.11-98
Zinc mg/kg	21	PND F 16.1:2.3:3.11-98			

Vitamin Report and Quality indicators					
Name	Results	Test Method	Name	Results	Test Method
Vitamin B1 g/kg	< 0.5	M-04-72-2011	Vitamin B6 g/kg	<1	M-04-72-2011
Vitamin B2 g/kg	1.5	M-04-72-2011	Vitamin BC g/kg	<5	M-04-72-2011
Vitamin B3 g/kg	< 5	M-04-72-2011	Vitamin A mg/kg	0.35	M-02-1006-08
Vitamin B5 g/kg	<10	M-04-72-2011	Vitamin D3 mg/kg	0.55	M-02-1006-08
Vitamin B12 g/kg	0.9	M-02-1006-08	Vitamin E mg/kg	13.20	M-02-1006-08
Alanine mg/100gm	550	MVI.MN 1363-2000	Lysine mg/100gm	150	MVI.MN 1363-2000
Arginine mg/100gm	20.5	MVI.MN 1363-2000	Proline mg/100gm	170	MVI.MN 1363-2000
Aspartic acid mg/100gm	<1	MVI.MN 1363-2000	Serine mg/100gm	1400	MVI.MN 1363-2000
Valine mg/100gm	210	MVI.MN 1363-2000	Tyrosine mg/100gm	55.2	MVI.MN 1363-2000
Histidine mg/100gm	110.5	MVI.MN 1363-2000	Threonine mg/100gm	95.7	MVI.MN 1363-2000
Glycine mg/100gm	3100	MVI.MN 1363-2000	Tryptophan mg/100gm	120	MVI.MN 1363-2000
Glutamic acid mg/100gm	95.5	MVI.MN 1363-2000	Phenylalanine mg/100gm	150.5	MVI.MN 1363-2000
Isoleucine mg/100gm	59.2	MVI.MN 1363-2000	Cystine mg/100gm	1410	MVI.MN 1363-2000
Methionine mg/100gm	35.50	MVI.MN 1363-2000	Moisture %	12.4	GOST 24027-80
Leucine mg/100gm	219.80	MVI.MN 1363-2000	Humic acid %	7.6	R 4.1.1672-03 P3
Fulvic Acid %	72.9	R 4.1.1672-03 P3			

Nutritional Report		
Name	Results	Test Method
Protein (g / 100g)	30.0	CF003.1 - Determination of Crude Protein by Combustion
Fat (g / 100g)	5.9	CF004.2 - Determination of Crude Fats and Oils by Acid Hydrolysis
Saturated Fat (g / 100g)	5.8	CFH068 - Determination of Fatty Acid Composition in Foods
Mono-unsat Fat (g / 100g)	< 0.1	CFH068 - Determination of Fatty Acid Composition in Foods
Poly-unsat Fat (g / 100g)	< 0.1	CFH068 - Determination of Fatty Acid Composition in Foods
Trans Fat (g / 100g)	< 0.01	CFH068 - Determination of Fatty Acid Composition in Foods
Total sugar (g / 100g)	< 0.1	CFH001.1 - Determination of Sugar Profile by HPLC
Total Carbohydrate (g / 100g)	12.7	CF029.2 - Total Carbohydrate (inc. Dietary Fibre)
Dietary Fiber (g / 100g)	0.2	CF029.2 - Total Carbohydrate (inc. Dietary Fibre)
Energy (kj 100 g)	950	CF030.2 - Energy of Foods (inc. Dietary Fibre)
Cholesterol (g / 100g)	< 0.01	CFH064 - Determination of Cholesterol in Foods
Radionuclides		
Name	Results	Test Method
Strontium specific activity Bk/kg	Less 5	GOST 32163-2013

Dietary Supplement Shilajit (Mumijo) Powder in capsules 500 mg; batch No 06.23, conforms with requirements of technical conditions 377-029-14729213-05 and requirements of Technical Regulations of the Customs Union «On the safety of Food Products» TR CU 021/2011

Laboratory name: Federal State Budgetary Institution «Altai central scientific and methodological veterinary laboratory»