

CERTIFICATE OF ANALYSIS



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Report Issued To: Lost Empire Herbs
8301 NW 101st Ter.
Kansas City MO 64153-2321
Untied States

Sample Name: Shilajit Powder
Description: Powdered extract; Dark brown powder
Lot #: BSHILP22MAY23
AL #: 23219FMI_1
Analysis ID: 208013
Received: 08/07/23

Determination of Pesticide Content by USP <561>

Compound Name	Amount (mg/kg)	USP <561> Limit (mg/kg)	Result
Acephate*	<0.1	0.1	Pass
Alachlor **	<0.05	0.05	Pass
Aldrin and Dieldrin (sum of) **	<0.05	0.05	Pass
Azinphos Ethyl *	<0.1	0.1	Pass
Azinphos Methyl *	<1	1	Pass
Bromophos Ethyl **	<0.05	0.05	Pass
Bromophos Methyl **	<0.05	0.05	Pass
Bromopropylate **	<3	3	Pass
Chlordane (sum of <i>cis</i> -, <i>trans</i> -, and oxychlordane) **	<0.05	0.05	Pass
Chlorfenvinphos **	<0.5	0.5	Pass
Chlorpyrifos Ethyl **	<0.2	0.2	Pass
Chlorpyrifos Methyl **	<0.1	0.1	Pass
Chlorthal Dimethyl **	<0.01	0.01	Pass
Cyfluthrin (sum of) **	<0.1	0.1	Pass
λ-Cyhalothrin **	<1	1	Pass
Cypermethrin and isomers (sum of) **	<1	1	Pass
DDT (sum of <i>o,p'</i> -DDE, <i>p,p'</i> -DDE, <i>o,p'</i> -DDT, <i>p,p'</i> -DDT, <i>o,p'</i> -TDE, and <i>p,p'</i> -TDE) **	<1	1	Pass
Deltamethrin *	<0.5	0.5	Pass
Diazinon *	<0.5	0.5	Pass
Dichlofluanid *	<0.1	0.1	Pass
Dichlorvos *	<1	1	Pass
Dicofol **	<0.5	0.5	Pass
Dimethoate and omethoate (sum of) *	<0.1	0.1	Pass
Endosulfan (sum of isomers and endosulfan sulphate) **	<3	3	Pass
Endrin **	<0.05	0.05	Pass
Ethion *	<2	2	Pass
Etrimphos *	<0.05	0.05	Pass
Fenchlorophos (sum of fenchlorophos and fenchlorophos-oxon) **	<0.1	0.1	Pass
Fenitrothion **	<0.5	0.5	Pass
Fenpropathrin *	<0.03	0.03	Pass
Fensulfothion (sum of fensulfothion, fensulfothion-oxon, fensulfothion-oxon sulfone, and fensulfothion sulfone) *	<0.05	0.05	Pass
Fenthion (sum of fenthion, fenthion-oxon, fenthion-oxon sulfone, fenthion-oxon sulfoxide, fenthion sulfone, and fenthion-sulfoxide) *	<0.05	0.05	Pass
Fenvalerate **	<1.5	1.5	Pass
Flucythrinate **	<0.05	0.05	Pass
τ-Fluvalinate **	<0.05	0.05	Pass
Fonophos *	<0.05	0.05	Pass
Heptachlor (sum of heptachlor, <i>cis</i> -heptachlorepoxyde, and <i>trans</i> -heptachlorepoxyde) **	<0.05	0.05	Pass
Hexachlorobenzene **	<0.1	0.1	Pass
Hexachlorocyclohexane (sum of isomers α-, β-, δ-, and ε-) **	<0.3	0.3	Pass
Lindan (γ-hexachlorocyclohexane) **	<0.6	0.6	Pass
Malathion and malaoxon (sum of) *	<1	1	Pass
Mecarbam *	<0.05	0.05	Pass
Methacriphos *	<0.05	0.05	Pass
Methamidophos *	<0.05	0.05	Pass
Methidathion *	<0.2	0.2	Pass
Methoxychlor **	<0.05	0.05	Pass

Analysis Date: 09/01/23

Analyzed By: L Brown

Authorized By: Anthony Fontana,
Laboratory Director

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Compound Name	Amount (mg/kg)	USP <561> Limit (mg/kg)	Result
Mirex **	<0.01	0.01	Pass
Monocrotophos *	<0.1	0.1	Pass
Parathion-ethyl and paraoxon-ethyl (sum of) *	<0.5	0.5	Pass
Parathion-methyl and paraoxon-methyl (sum of) **	<0.2	0.2	Pass
Pendimethalin *	<0.1	0.1	Pass
Pentachloroanisole **	<0.01	0.01	Pass
Permethrin and isomers (sum of) **	<1	1	Pass
Phosalone *	<0.1	0.1	Pass
Phosmet *	<0.05	0.05	Pass
Piperonyl Butoxide *	<3	3	Pass
Pirimiphos Ethyl *	<0.05	0.05	Pass
Pirimiphos-methyl (sum of pirimiphos-methyl and <i>N</i> -desethyl-pirimiphos-methyl)**	<4	4	Pass
Procymidone **	<0.1	0.1	Pass
Profenophos *	<0.1	0.1	Pass
Prothiophos **	<0.05	0.05	Pass
Pyrethrum (sum of cinerin I, cinerin II, jasmolin I, jasmolin II, pyrethrin I, and pyrethrin II) *	<3	3	Pass
Quinalphos *	<0.05	0.05	Pass
Quintozene (sum of quintozene, pentachloraniline, and methyl pentachlorophenyl sulfide) **	<1	1	Pass
S-421 **	<0.02	0.02	Pass
Tecnazene **	<0.05	0.05	Pass
Tetradifon **	<0.3	0.3	Pass
Vinclozolin **	<0.4	0.4	Pass
Bromide, Inorganic (Calculated as Bromide Ion) †	247.35	125	Fail
Dithiocarbamates (Expressed as CS ₂) ‡	<2	2	Pass

Chromatographic Conditions (*):

Method: ATM-815-0308
Chromatographic Instrument: UPLC
Ionization Method: Electrospray Ionization
Mass Spectrometer: Triple Quadrupole, MRM Mode

Chromatographic Conditions ():**

Method: ATM-815-0308
Chromatographic Instrument: GC
Ionization Method: Atmospheric Pressure Gas Chromatography
Mass Spectrometer: Triple Quadrupole, MRM Mode

Chromatographic Conditions (†):

Method: ATM-815-0308
Chromatographic Instrument: UPLC
Ionization Method: Electron Ionization
Mass Spectrometer: Triple Quadrupole, MRM Mode

Chromatographic Conditions (‡):

Method: ATM-815-0308
Chromatographic Instrument: GC
Ionization Method: Electron Ionization
Mass Spectrometer: Triple Quadrupole, SIM Mode

Analysis Date: 09/01/23
Analyzed By: L Brown
**Authorized By: Anthony Fontana,
Laboratory Director**

Sample Preparation (* and **):

Mixed sample well. Ground to a fine powder or composited the contents of 10 capsules if needed. Transferred 500 mg of sample to a 15 mL centrifuge tube. Added 5.0 mL of extraction solvent and vortexed 30 seconds to mix. Sonicated for 30 minutes at room temperature. Let cool and centrifuged for 5 minutes at 4,000 RPM. Transferred 1 mL of supernatant to a dSPE tube and mixed at 15 Hz for 1 minute. Centrifuged at 10,000 RPM for 2 minutes. Transferred to vials for analysis.

Sample Preparation (†):

Mixed sample well. Ground to a fine powder or composited the contents of 10 capsules if needed. Transferred 500 mg of sample to a 15 mL centrifuge tube. Added 10 mL of extraction solvent. Vortexed 30 seconds to mix. Shook for 30 minutes. Filtered through 0.45 µm PES filter into a vial for analysis.

Sample Preparation (‡):

Mixed sample well. Ground to a fine powder or composited the contents of 10 capsules if needed. Transferred 500 mg of sample to a headspace vial. Added 1 mL of internal standard solution and 1.5 mL of tin (II) chloride solution. Crimped cap immediately and vortexed 30 seconds to mix.

Report Summary:

Conclusion:	This "Shilajit Powder" test sample has 247.35 mg/kg inorganic bromide which does not meet the limit set forth in USP <561> Pesticide Residue Analysis.
OOS Reference:	OOS-2023-948
Notes:	N/A
Work Instruction Reference:	22223 Br 22723 DTC 22923 LC 561 24323 GC 561

Analysis Date: 09/01/23**Analyzed By: L Brown****Authorized By: Anthony Fontana,
Laboratory Director**

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