CERTIFICATE OF ANALYSIS



12661 HOOVER STREET. GARDEN GROVE, CA 92841 | P. 714-754-4372 | F. 714-668-9972 | WWW.ALKEMIST.COM

Report Issued To: Lost Empire Herbs Sample Name: He Shou Wu

8301 NW 101st Ter. **Description:** Powder; Light brown powder

Analysis ID: 208019 **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
Chlorpyriphos Ethyl **	<0.2	0.2	Pass
Chlorpyriphos Methyl **	<0.1	0.1	Pass
Chlorthal Dimethyl **	< 0.01	0.01	Pass
Cyfluthrin (sum of) **	<0.01	0.01	Pass
	<0.1 <1	1	Pass
λ-Cyhalothrin **			
Cypermethrin and isomers (sum of) **	<1	1	Pass
DDT (sum of o,p' -DDE, p,p' -DDE, o,p' -DDT, p,p' -DDT, o,p' -TDE, and p,p' -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	< 0.05	0.05	Pass
sulfone, and fensulfothion sulfone) *	\0.05	0.05	1 433
Fenthion (sum of fenthion, fenthion-oxon, fenthion-oxon sulfone, fenthion-oxon	< 0.05	0.05	Pass
sulfoxide, fenthion sulfone, and fenthion-sulfoxide) *			1 433
Fenvalerate **	<1.5	1.5	Pass
Flucythrinate **	< 0.05	0.05	Pass
т-Fluvalinate **	< 0.05	0.05	Pass
Fonophos *	< 0.05	0.05	Pass
Heptachlor (sum of heptachlor, cis-heptachlorepoxide, and trans-	< 0.05	0.05	Pass
heptachlorepoxide) **	<0.03	0.03	Pass
Hexachlorobenzene **	< 0.1	0.1	Pass
Hexachlorocyclohexane (sum of isomers α -, β -, δ -, and ϵ -) **	< 0.3	0.3	Pass
Lindan (y-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
rectionychio	\0.03	0.05	1 433

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) \ast	<3	3	Pass
Quinalphos *	< 0.05	0.05	Pass
Quintozene (sum of quintozene, pentachloraniline, and methyl pentachlorphenyl 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) †	<125	125	Pass
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



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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 $0.45 \mu m$ 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 "He Shou Wu" test sample meets the limits set forth in USP <561> Pesticide Residue

Analysis.

OOS Reference: N/A
Notes: N/A
Work Instruction Reference: 22223 Br

22723 DTC 22923 LC 561 24323 GC 561

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