

CERTIFICATE OF ANALYSIS



SAMPLE NAME: GREEN HULU KAPUAS POWDER

SAMPLE CODE: DTS-240927-018

CLIENT: BOTANAWAY

BATCH RESULT: PASS

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MATRIX NAME: Botanical Powder - Plant

SAMPLE TYPE: Compliance

RECEIVED DATE: Mon, Sep 30, 2024

PUBLISHED DATE: Fri, Oct 4, 2024

BATCH/LOT CODE: 24-267/BGK/01

BATCH SIZE: N/A

SAMPLE SIZE: 1U

MITRAGYNINE

1.184 %

TOTAL MAJOR ALKALOIDS

2.054 %

ALKU



Kratom Alkaloids
High Level

PGUSP



Pesticides
USP <561>

PLUSP



Pesticides
USP <561>

SS



Salmonella & STEC
qPCR

HVMET



Heavy Metals
4

TYMFD



Total Yeast & Mold
Plate

RESULTS REVIEWED BY: Leslie Varela

Laboratory Director
Cambium Analytica
Friday, Oct 4, 2024

RESULTS CERTIFIED BY: Douglas Smith

VP - Scientific Operations
Cambium Analytica
Friday, Oct 4, 2024

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ALKU

KRATOM ALKALOIDS - HIGH LEVELLAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD
ALKU-DTS-240927-018-01 - FRI, SEP 27, 2024

ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	1.184 %	11.835 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.410 %	4.105 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.304 %	3.042 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.156 %	1.559 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	2.054 %	20.541 mg/g	N/A	N/A	N/A	N/A



PGUSP

PESTICIDES - USP <561> - GC/TQ

LAB-TM-039 - USP 561 PESTICIDES ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY GC/TQ
PGUSP-DTS-240927-018-01 - FRI, SEP 27, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Aldrin + Dieldrin	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Bromophos Ethyl	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Bromophos Methyl	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Bromopropylate	ND	3 ug/g	6 ng/g	12 ng/g	PASS
Chlordane (Sum of -Cis-, -Trans-, Oxychlordane)	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Chlorthal-Dimethyl	ND	0.01 ug/g	0.02 ng/g	0.04 ng/g	PASS
DDT (Sum of O,P-DDE, P,P-DDE, O,P-DDT, P,P-DDT, O,P-TDE, and P,P-TDE)	ND	1 ug/g	2 ng/g	4 ng/g	PASS
Dicofol	ND	0.5 ug/g	1 ng/g	2 ng/g	PASS
Endosulfan (Sum of Isomers and Sulphate)	ND	3 ug/g	6 ng/g	12 ng/g	PASS
Endrin	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Fenchlorophos (Sum of Fenchlorophos and Fenchlorophos-Oxon)	ND	0.1 ug/g	0.2 ng/g	0.4 ng/g	PASS
Fenitrothion	ND	0.5 ug/g	1 ng/g	2 ng/g	PASS
Fenvalerate	ND	1.5 ug/g	3 ng/g	6 ng/g	PASS
Fluvalinate-Tau	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Heptachlor (Sum of Heptachlor, Cis-Heptachlorepoxyde, and Trans-Heptachlorepoxyde)	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Hexachlorobenzene	ND	0.1 ug/g	0.2 ng/g	0.4 ng/g	PASS
Hexachlorocyclohexane (Sum of Isomers Alpha-, Beta-, Delta-, and Epsilon-)	ND	0.3 ug/g	0.6 ng/g	1.2 ng/g	PASS
Lindane (Gamma-Hexachlorocyclohexane)	ND	0.6 ug/g	1.2 ng/g	2.4 ng/g	PASS
Methacrifos	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Methoxychlor	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Mirex	ND	0.01 ug/g	0.02 ng/g	0.04 ng/g	PASS
Parathion Ethyl + Paraoxon Ethyl	ND	0.5 ug/g	1 ng/g	2 ng/g	PASS
Pentachloroanisole	ND	0.01 ug/g	0.02 ng/g	0.04 ng/g	PASS
Procymidone	ND	0.1 ug/g	0.2 ng/g	0.4 ng/g	PASS
Quintozene (Sum of Quintozene, Pentachloroaniline, and Methyl-Pentachlorophenyl Sulfide)	ND	1 ug/g	2 ng/g	4 ng/g	PASS



PGUSP

PESTICIDES - USP <561> - GC/TQLAB-TM-039 - USP 561 PESTICIDES ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY GC/TQ
PGUSP-DTS-240927-018-01 - FRI, SEP 27, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
S-421	ND	0.02 ug/g	0.04 ng/g	0.08 ng/g	PASS
Tecnazene	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Tetradifon	ND	0.3 ug/g	0.6 ng/g	1.2 ng/g	PASS
Vinclozolin	ND	0.4 ug/g	0.8 ng/g	1.6 ng/g	PASS



PLUSP

PESTICIDES - USP <561> - LC/TQ

LAB-TM-038 - USP 561 PESTICIDE ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY LC/TQ
PLUSP-DTS-240927-018-01 - FRI, SEP 27, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Acephate	ND	0.4 ug/g	12.5 ng/g	25 ng/g	PASS
Alachlor	ND	N/A	12.5 ng/g	25 ng/g	N/A
Azinphos Ethyl	ND	N/A	12.5 ng/g	25 ng/g	N/A
Azinphos Methyl	ND	N/A	12.5 ng/g	25 ng/g	N/A
Chlorfenvinphos	ND	N/A	12.5 ng/g	25 ng/g	N/A
Chlorpyrifos Ethyl	ND	N/A	12.5 ng/g	25 ng/g	N/A
Cyfluthrin	ND	1 ug/g	12.5 ng/g	25 ng/g	PASS
Cypermethrin	ND	1 ug/g	12.5 ng/g	25 ng/g	PASS
Deltamethrin	ND	N/A	12.5 ng/g	25 ng/g	N/A
Diazinon	ND	0.2 ug/g	12.5 ng/g	25 ng/g	PASS
Dichlorvos	ND	N/A	12.5 ng/g	25 ng/g	N/A
Dimethoate + Omethoate	ND	N/A	12.5 ng/g	25 ng/g	N/A
Ethion	ND	N/A	12.5 ng/g	25 ng/g	N/A
Etrimphos	ND	N/A	12.5 ng/g	25 ng/g	N/A
Fenpropathrin	ND	N/A	12.5 ng/g	25 ng/g	N/A
Fensulfothion (Sum of Fensulfothion, Fensulfothion-Oxon, Fensulfothion-Oxon-Sulfone, and Fensulfothion-Sulfone)	ND	N/A	12.5 ng/g	25 ng/g	N/A
Fenthion (Sum of Fenthion, Fenthion-Oxon, Fenthion-Oxon-Sulfone, Fenthion-Oxon-Sulfoxide, Fenthion-Sulfone, and Fenthion-Sulfoxide)	ND	N/A	12.5 ng/g	25 ng/g	N/A
Flucythrinate	ND	N/A	12.5 ng/g	25 ng/g	N/A
Fonophos	ND	N/A	12.5 ng/g	25 ng/g	N/A
Lambda-Cyhalothrin	ND	N/A	12.5 ng/g	25 ng/g	N/A
Malathion + Malaaxon	ND	N/A	12.5 ng/g	25 ng/g	N/A
Mecarbam	ND	N/A	12.5 ng/g	25 ng/g	N/A
Methamidophos	ND	N/A	12.5 ng/g	25 ng/g	N/A
Methidathion	ND	N/A	12.5 ng/g	25 ng/g	N/A
Monocrotophos	ND	N/A	12.5 ng/g	25 ng/g	N/A
Pendimethalin	ND	N/A	12.5 ng/g	25 ng/g	N/A
Permethrins (Sum of Cis- and Trans-Permethrin)	ND	N/A	12.5 ng/g	25 ng/g	N/A
Phosalone	ND	N/A	12.5 ng/g	25 ng/g	N/A
Phosmet	ND	N/A	12.5 ng/g	25 ng/g	N/A



PLUSP

PESTICIDES - USP <561> - LC/TQ

LAB-TM-038 - USP 561 PESTICIDE ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY LC/TQ
PLUSP-DTS-240927-018-01 - FRI, SEP 27, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Piperonyl Butoxide	<LOQ	N/A	12.5 ng/g	25 ng/g	N/A
Pirimiphos Ethyl	ND	N/A	12.5 ng/g	25 ng/g	N/A
Pirimiphos Methyl (Sum of Pirimiphos-Methyl and n- Desethyl-Pirimiphos-Methyl)	ND	N/A	12.5 ng/g	25 ng/g	N/A
Profenophos	ND	N/A	12.5 ng/g	25 ng/g	N/A
Prothiophos	ND	N/A	12.5 ng/g	25 ng/g	N/A
Pyrethrins (Sum of Cinerin 1, Jasmolin 1, and Pyrethrin 1)	ND	N/A	12.5 ng/g	25 ng/g	N/A
Quinalphos	ND	N/A	12.5 ng/g	25 ng/g	N/A



SS

SALMONELLA & STEC- QPCRLAB-TM-006 - MICROBIAL ANALYSIS BY QPCR
SS-DTS-240927-018-01 - FRI, SEP 27, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Salmonella Spp	ND	N/A	N/A	N/A	N/A
Shiga Toxin Producing E. coli	ND	N/A	N/A	N/A	N/A

HVMET

HEAVY METALS - 4LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS
HVMET-DTS-240927-018-01 - FRI, SEP 27, 2024

ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	ND	N/A	N/A	0.198 ug/kg	0.662 ug/kg	N/A
Cadmium	0.048 ug/g	N/A	N/A	0.082 ug/kg	0.272 ug/kg	N/A
Lead	0.826 ug/g	N/A	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Mercury	0.027 ug/g	N/A	N/A	0.017 ug/kg	0.057 ug/kg	N/A

TYMFD

TOTAL YEAST & MOLD - PLATELAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS
TYMFD-DTS-240927-018-01 - FRI, SEP 27, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	ND	N/A	10 CFU/g	10 CFU/g	N/A

