

CERTIFICATE OF ANALYSIS

SAMPLE NAME: GREEN KRATOM

SAMPLE CODE: DTS-240522-003

CLIENT: PURE INFINITY BOTANICALS

BATCH RESULT: PASS



1230 Woodmere Ave
Traverse City, MI 49686
231.252.3669
cambiumanalytica.com

MATRIX NAME: Botanical Powder - Plant
SAMPLE TYPE: Quality Assurance
RECEIVED DATE: Wed, May 22, 2024
PUBLISHED DATE: Tue, May 28, 2024
BATCH CODE: N/A
BATCH SIZE: N/A
SAMPLE SIZE: 1 U

TOTAL MAJOR ALKALOIDS 2.318%

TOTAL MINOR ALKALOIDS 0.0133%

MITRAGYNINE 1.469%



ALKU Kratom Alkaloids High Level	ALKL Kratom Alkaloids Low Level	SOL Residual Solvents USP <467>	SAL Salmonella 25g qPCR	ECOLI Total E. Coli & Coliforms Plate
PGUSP Pesticides USP <561>	PLUSP Pesticides USP <561>	TAMC Total Aerobic Bacteria Plate	AWA Water Activity	FOROM Foreign Organic Matter
		TYMFD Total Yeast & Mold Plate	HPMET Heavy Metals 7	

RESULTS REVIEWED BY: Leslie Varela
Laboratory Director
Cambium Analytica
Tuesday, May 28, 2024

RESULTS CERTIFIED BY: Douglas Smith
VP - Scientific Operations
Cambium Analytica
Tuesday, May 28, 2024

This report may not be reproduced except in full without approval from Cambium Analytica. The results herein relate only to the sample & batch identified in this report.



LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD
ALKU-DTS-240522-003-01 - WED, MAY 22, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Major Alkaloids	2.318 %	N/A			N/A
Mitragynine	1.469 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.339 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.323 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.186 %	N/A	0.3 ug/g	0.5 ug/g	N/A

LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ
ALKL-DTS-240522-003-01 - WED, MAY 22, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.0133 %	N/A	0.01 ug/kg	0.1 ug/kg	N/A
Total Minor Alkaloids	0.0133 %	N/A	0.01 ug/kg	0.1 ug/kg	N/A
Mitraphylline	ND	N/A	0.01 ug/kg	0.1 ug/kg	N/A



LAB-TM-004 - DETERMINATION OF RESIDUAL SOLVENTS

SOL-DTS-240522-003-01 - WED, MAY 22, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
1,2-Dichloroethane	ND	N/A	0.4 ug/g	1.34 ug/g	N/A
2-Methylbutane	ND	N/A	1.54 ug/g	5.14 ug/g	N/A
2-Methylpentane	ND	N/A	0.0462 ug/g	0.154 ug/g	N/A
2,2-Dimethylbutane	ND	N/A	0.98 ug/g	3.27 ug/g	N/A
2,3-Dimethylbutane	ND	N/A	2.19 ug/g	7.32 ug/g	N/A
3-Methylpentane	ND	N/A	0.73 ug/g	2.44 ug/g	N/A
Acetone	ND	N/A	1.57 ug/g	5.23 ug/g	N/A
Acetonitrile	ND	N/A	1.85 ug/g	6.17 ug/g	N/A
Benzene	ND	N/A	0.18 ug/g	0.59 ug/g	N/A
Butane	ND	N/A	1.68 ug/g	5.59 ug/g	N/A
Butanes (Sum of Butane and Isobutane)	ND	N/A			N/A
Chloroform	ND	N/A	0.78 ug/g	2.59 ug/g	N/A
Ethanol	ND	N/A	6.02 ug/g	20.1 ug/g	N/A
Ethyl Acetate	ND	N/A	1.95 ug/g	6.49 ug/g	N/A
Ethyl Ether	ND	N/A	1.37 ug/g	4.55 ug/g	N/A
Ethylene Oxide	ND	N/A	0.15 ug/g	0.49 ug/g	N/A
Heptane	ND	N/A	1.31 ug/g	4.37 ug/g	N/A
Hexane	ND	N/A	1.42 ug/g	4.74 ug/g	N/A
Hexanes (Sum of Hexane, 2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane, and 3-Methylpentane)	ND	N/A			N/A
Isobutane	ND	N/A	1.6 ug/g	5.34 ug/g	N/A
Isopropyl Alcohol	ND	N/A	4.9 ug/g	16.3 ug/g	N/A
Methanol	69.922 ug/g	N/A	7.89 ug/g	26.4 ug/g	N/A
Methylene Chloride	ND	N/A	1.36 ug/g	4.53 ug/g	N/A
Neopentane	ND	N/A	1.49 ug/g	4.97 ug/g	N/A
Pentane	ND	N/A	1.46 ug/g	4.87 ug/g	N/A
Pentanes (Sum of Pentane, 2-Methylbutane, and Neopentane)	ND	N/A			N/A
Propane	ND	N/A	1.95 ug/g	6.51 ug/g	N/A
Toluene	ND	N/A	1.88 ug/g	6.26 ug/g	N/A
Total Xylenes	ND	N/A	2.02 ug/g	6.72 ug/g	N/A
Trichloroethylene	ND	N/A	0.29 ug/g	0.96 ug/g	N/A

LAB-TM-063 - DETECTION AND ISOLATION OF SALMONELLA SPP. IN FOODS AND DIETARY SUPPLEMENTS

SAL-DTS-240522-003-01 - WED, MAY 22, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Salmonella Spp	ND	N/A	1 CFU/g		N/A



LAB-TM-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS

ECOLI-DTS-240522-003-01 - WED, MAY 22, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
E. coli	ND	N/A	10 CFU/g	10 CFU/g	N/A
Total Coliforms	ND	N/A	10 CFU/g	10 CFU/g	N/A

LAB-TM-039 - USP 561 PESTICIDES ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY GC/TQ

PGUSP-DTS-240522-003-01 - WED, MAY 22, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Aldrin + Dieldrin	ND	0.05 ug/g	0.2815 ug/g	0.9383 ug/g	PASS
Bromophos Ethyl	ND	0.05 ug/g	0.0185 ug/g	0.0616 ug/g	PASS
Bromophos Methyl	ND	0.05 ug/g	0.026 ug/g	0.0865 ug/g	PASS
Bromopropylate	ND	3 ug/g	0.0236 ug/g	0.0788 ug/g	PASS
Chlordane (Sum of -Cis, -Trans, Oxychlordane)	ND	0.05 ug/g	0.0549 ug/g	0.1831 ug/g	PASS
Chlorthal-Dimethyl	ND	0.01 ug/g	0.0053 ug/g	0.0178 ug/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	0.0522 ug/g	0.1741 ug/g	PASS
Dicofol	ND	0.5 ug/g	0.0623 ug/g	0.2075 ug/g	PASS
Endosulfan (Sum of Isomers and Sulphate)	ND	3 ug/g	0.0693 ug/g	0.231 ug/g	PASS
Endrin	ND	0.05 ug/g	0.0699 ug/g	0.2329 ug/g	PASS
Fenchlorophos (Sum of Fenchlorophos and Fenchlorophos-Oxon)	ND	0.1 ug/g	0.0929 ug/g	0.3098 ug/g	PASS
Fenitrothion	ND	0.5 ug/g	0.0161 ug/g	0.0537 ug/g	PASS
Fenvalerate	ND	1.5 ug/g	0.0379 ug/g	0.1265 ug/g	PASS
Fluvalinate-Tau	ND	0.05 ug/g	0.1006 ug/g	0.3352 ug/g	PASS
Heptachlor (Sum of Heptachlor, Cis-Heptachlorepoxide, and Trans-Heptachlorepoxide)	ND	0.05 ug/g	0.1945 ug/g	0.6485 ug/g	PASS
Hexachlorobenzene	ND	0.1 ug/g	0.0253 ug/g	0.0844 ug/g	PASS
Hexachlorocyclohexane (Sum of Isomers Alpha-, Beta-, Delta-, and Epsilon-)	ND	0.3 ug/g	0.0937 ug/g	0.3123 ug/g	PASS
Lindane (Gamma-Hexachlorocyclohexane)	ND	0.6 ug/g	0.0152 ug/g	0.0508 ug/g	PASS
Methacriphos	ND	0.05 ug/g	0.0643 ug/g	0.2145 ug/g	PASS
Methoxychlor	ND	0.05 ug/g	0.0113 ug/g	0.0375 ug/g	PASS
Mirex	ND	0.01 ug/g	0.0075 ug/g	0.0252 ug/g	PASS
Parathion Ethyl + Paraoxon Ethyl	ND	0.5 ug/g	0.0592 ug/g	0.1972 ug/g	PASS
Pentachloroanisole	ND	0.01 ug/g	0.0053 ug/g	0.0178 ug/g	PASS
Procymidone	ND	0.1 ug/g	0.0074 ug/g	0.0248 ug/g	PASS
Quintozene (Sum of Quintozene, Pentachloroaniline, and Methyl-Pentachlorophenyl Sulfide)	ND	1 ug/g	0.0625 ug/g	0.2083 ug/g	PASS
S-421	ND	0.02 ug/g	0.0142 ug/g	0.0474 ug/g	PASS
Tecnazene	ND	0.05 ug/g	0.014 ug/g	0.0465 ug/g	PASS
Tetradifon	ND	0.3 ug/g	0.0167 ug/g	0.0557 ug/g	PASS
Vinclozolin	ND	0.4 ug/g	0.0195 ug/g	0.065 ug/g	PASS



LAB-TM-038 - USP 561 PESTICIDE ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY LC/TQ

PLUSP-DTS-240522-003-01 - WED, MAY 22, 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 + Malaoxon	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
Piperonyl Butoxide	ND	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



LAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS
TAMC-DTS-240522-003-01 - WED, MAY 22, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	ND	N/A	1000 CFU/g	1000 CFU/g	N/A

LAB-TM-009 - DETERMINATION OF WATER ACTIVITY
AWA-DTS-240522-003-01 - WED, MAY 22, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Water Activity	0.338 aw	N/A			N/A

LAB-TM-007 - FOREIGN MATTER AND FILTH ANALYSIS
FOROM-DTS-240522-003-01 - WED, MAY 22, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Foreign Organic Matter	0 %	N/A			N/A
Inorganic Matter	0 %	N/A			N/A

LAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS
TYMFD-DTS-240522-003-01 - WED, MAY 22, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	20 CFU/g	N/A	10 CFU/g	10 CFU/g	N/A

LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS
HPMET-DTS-240522-003-02 - FRI, MAY 24, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	0.193 ug/g	N/A	0.198 ug/kg	0.662 ug/kg	N/A
Cadmium	0.046 ug/g	N/A	0.082 ug/kg	0.272 ug/kg	N/A
Chromium	3.215 ug/g	N/A	0.627 ug/kg	2.091 ug/kg	N/A
Copper	19.099 ug/g	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Lead	0.883 ug/g	N/A	0.282 ug/kg	0.282 ug/kg	N/A
Mercury	0.050 ug/g	N/A	0.017 ug/kg	0.057 ug/kg	N/A
Nickel	3.257 ug/g	N/A	0.321 ug/kg	1.071 ug/kg	N/A

