

CERTIFICATE OF ANALYSIS

SAMPLE NAME: LIZZY'S LAZY LEMONADE
SAMPLE CODE: DTS-250128-016
CLIENT: 1836 KRATOM
BATCH RESULT: PASS



MATRIX NAME: Edible Solid - Drink Powder
SAMPLE TYPE: Quality Assurance
RECEIVED DATE: Wed, Jan 29, 2025
PUBLISHED DATE: Mon, Feb 3, 2025
BATCH/LOT CODE: SSLM0002 B0001
BATCH SIZE: N/A
SAMPLE SIZE: 1 U
AVERAGE UNIT WEIGHT: 10g

MITRAGYNNINE 50.13 mg / serv

TOTAL MAJOR ALKALOIDS 50.61 mg / serv

TOTAL MINOR ALKALOIDS 0.08 mg / serv

KAVAL ✓ Kavalactones & Kavains	ALKU ✓ Kratom Alkaloids High Level	ALKL ✓ Kratom Alkaloids Low Level	SOL ✓ Residual Solvents USP <467>	PGUSP ✓ Pesticides USP <561>
PLUSP ✓ Pesticides USP <561>	TAMC ✓ Total Aerobic Bacteria Plate	SS ✓ Salmonella & STEC qPCR	TYMFD ✓ Total Yeast & Mold Plate	HPMET ✓ Heavy Metals 7

APPROVALS

RESULTS REVIEWED BY:



Leslie Varela
Laboratory Director

Cambium Analytica
Monday, Feb 3, 2025

RESULTS CERTIFIED BY:



Douglas Smith
VP - Scientific Operations

Cambium Analytica
Monday, Feb 3, 2025

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KAVAL

KAVALACTONES & KAVAINSLAB-TM-067 - DETERMINATION OF KAVALACTONES & KAVAINS BY LC-DAD
KAVAL-DTS-250128-016-01 - MON, FEB 3, 2025

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Kavain	1.229 %	12.285 mg/g	122.85 mg	122.85 mg	N/A	0.25 ug/g	1 ug/g	N/A
Dihydrokavain	0.893 %	8.935 mg/g	89.35 mg	89.35 mg	N/A	0.25 ug/g	1 ug/g	N/A
Yangonin	0.432 %	4.324 mg/g	43.24 mg	43.24 mg	N/A	0.25 ug/g	1 ug/g	N/A
Desmethoxyyangonin	0.377 %	3.766 mg/g	37.66 mg	37.66 mg	N/A	0.25 ug/g	1 ug/g	N/A
Methysticin	0.346 %	3.463 mg/g	34.63 mg	34.63 mg	N/A	0.25 ug/g	1 ug/g	N/A
Dihydromethysticin	0.307 %	3.066 mg/g	30.66 mg	30.66 mg	N/A	0.25 ug/g	1 ug/g	N/A
Flavokavain B	0.065 %	0.652 mg/g	6.52 mg	6.52 mg	N/A	0.025 ug/g	0.1 ug/g	N/A
Flavokavain A	0.042 %	0.419 mg/g	4.19 mg	4.19 mg	N/A	0.025 ug/g	0.1 ug/g	N/A
Total Kavalactones and Kavains	3.691 %	36.91 mg/g	369.10 mg	369.10 mg	N/A			N/A
Total Kavalactones	3.584 %	35.838 mg/g	358.38 mg	358.38 mg	N/A			N/A

ALKU

KRATOM ALKALOIDS - HIGH LEVELLAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD
ALKU-DTS-250128-016-01 - FRI, JAN 31, 2025

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	0.5013 %	5.013 mg/g	50.13 mg	50.13 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.0039 %	0.039 mg/g	0.39 mg	0.39 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.0009 %	0.009 mg/g	0.09 mg	0.09 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	ND	N/A	N/A	N/A	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	0.5061 %	5.061 mg/g	50.61 mg	50.61 mg	N/A	N/A	N/A	N/A

ALKL

KRATOM ALKALOIDS - LOW LEVELLAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ
ALKL-DTS-250128-016-01 - FRI, JAN 31, 2025

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.00084 %	0.008 mg/g	0.08 mg	0.08 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	0 %	0 mg/g	0.00 mg	0.00 mg	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids	0.00084 %	0.008 mg/g	0.08 mg	0.08 mg	N/A	0.006 ug/g	0.03 ug/g	N/A



SOL

RESIDUAL SOLVENTS - USP <467>

LAB-TM-004 - DETERMINATION OF RESIDUAL SOLVENTS
SOL-DTS-250128-016-01 - FRI, JAN 31, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
1,2-Dichloroethane	ND	N/A	0.4 ug/g	1.00 ug/g	N/A
2-Methylbutane	ND	N/A	1.54 ug/g	5.14 ug/g	N/A
2-Methylpentane	ND	N/A	0.046 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	0.50 ug/g	N/A
Butane	ND	N/A	1.68 ug/g	5.59 ug/g	N/A
Chloroform	ND	N/A	0.78 ug/g	1.00 ug/g	N/A
Ethanol	52.202 ug/g	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
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	ND	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
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
Butanes (Sum of Butane and Isobutane)	0 ug/g	N/A	N/A	N/A	N/A
Hexanes (Sum of Hexane, 2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane, and 3-Methylpentane)	0 ug/g	N/A	N/A	N/A	N/A
Pentanes (Sum of Pentane, 2-Methylbutane, and Neopentane)	0 ug/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-250128-016-01 - MON, FEB 3, 2025

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	3.00 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	1.00 ug/g	2 ng/g	4 ng/g	PASS
Dicofol	ND	0.50 ug/g	1 ng/g	2 ng/g	PASS
Endosulfan (Sum of Isomers and Sulphate)	ND	3.00 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	0.10 ug/g	0.2 ng/g	0.4 ng/g	PASS
Fenitrothion	ND	0.50 ug/g	1 ng/g	2 ng/g	PASS
Fenvalerate	ND	1.50 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-Heptachlorepoide, and Trans-Heptachlorepoide)	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Hexachlorobenzene	ND	0.10 ug/g	0.2 ng/g	0.4 ng/g	PASS
Hexachlorocyclohexane (Sum of Isomers Alpha-, Beta-, Delta-, and Epsilon-)	ND	0.30 ug/g	0.6 ng/g	1.2 ng/g	PASS
Lindane (Gamma-Hexachlorocyclohexane)	ND	0.60 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	0.50 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	0.10 ug/g	0.2 ng/g	0.4 ng/g	PASS
Quintozene (Sum of Quintozene, Pentachloroaniline, and Methyl-Pentachlorophenyl Sulfide)	ND	1.00 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-250128-016-01 - MON, FEB 3, 2025

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	0.30 ug/g	0.6 ng/g	1.2 ng/g	PASS
Vinclozolin	ND	0.40 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-250128-016-01 - MON, FEB 3, 2025



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



PLUSP

PESTICIDES - USP <561> - LC/TQ

LAB-TM-038 - USP 561 PESTICIDE ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY LC/TQ
PLUSP-DTS-250128-016-01 - MON, FEB 3, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
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



TAMC

TOTAL AEROBIC BACTERIA - PLATELAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS
TAMC-DTS-250128-016-01 - FRI, JAN 31, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	100 CFU/g	N/A	100 CFU/g	100 CFU/g	N/A

SS

SALMONELLA & STEC- QPCRLAB-TM-006 - MICROBIAL ANALYSIS BY QPCR
SS-DTS-250128-016-01 - FRI, JAN 31, 2025

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

TYMFD

TOTAL YEAST & MOLD - PLATELAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS
TYMFD-DTS-250128-016-01 - MON, FEB 3, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	ND	N/A	100 CFU/g	100 CFU/g	N/A

HPMET

HEAVY METALS - 7LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS
HPMET-DTS-250128-016-01 - FRI, JAN 31, 2025

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	ND	N/A	N/A	N/A	N/A	0.198 ug/kg	0.662 ug/kg	N/A
Cadmium	ND	N/A	N/A	N/A	N/A	0.082 ug/kg	0.272 ug/kg	N/A
Chromium	0.092 ug/g	0 mg/g	0.92 ug	0.92 ug	N/A	0.627 ug/kg	2.091 ug/kg	N/A
Copper	0.729 ug/g	0.001 mg/g	7.29 ug	7.29 ug	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Lead	0.021 ug/g	0 mg/g	0.21 ug	0.21 ug	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Mercury	0.001 ug/g	0 mg/g	0.01 ug	0.01 ug	N/A	0.017 ug/kg	0.057 ug/kg	N/A
Nickel	0.239 ug/g	0 mg/g	2.39 ug	2.39 ug	N/A	0.321 ug/kg	1.071 ug/kg	N/A

