

CERTIFICATE OF ANALYSIS



SAMPLE NAME: MITRAGYNA SPECIOSA INFUSED SELTZER
SAMPLE CODE: DTS-250331-039
CLIENT: WHITE RABBIT
BATCH RESULT: PASS

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Traverse City, MI 49686
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MATRIX NAME: Beverage
SAMPLE TYPE: Compliance
RECEIVED DATE: Fri, Apr 4, 2025
PUBLISHED DATE: Thu, Apr 10, 2025
BATCH/LOT CODE: 2406-LT
BATCH SIZE: N/A
SAMPLE SIZE: 3U
AVERAGE UNIT WEIGHT: 355.91g

MITRAGYNINE 23.13 mg / serv

TOTAL MAJOR ALKALOIDS 27.76 mg / serv

TOTAL MINOR ALKALOIDS <LOQ %

ALKU ✓
Kratom Alkaloids
High Level

ALKL ✓
Kratom Alkaloids
Low Level

PGUSP ✓
Pesticides
USP <561>m

PLUSP ✓
Pesticides
USP <561>m

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
Thursday, Apr 10, 2025

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific Operations

Cambium Analytica
Thursday, Apr 10, 2025

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ALKU

KRATOM ALKALOIDS - HIGH LEVEL

LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD

ALKU-DTS-250331-039-01 - TUE, APR 8, 2025

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	0.0065 %	0.065 mg/g	23.13 mg	23.13 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.0009 %	0.009 mg/g	3.20 mg	3.20 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.0004 %	0.004 mg/g	1.42 mg	1.42 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	0.0078 %	0.078 mg/g	27.76 mg	27.76 mg	N/A	N/A	N/A	N/A

ALKL

KRATOM ALKALOIDS - LOW LEVEL

LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ

ALKL-DTS-250331-039-01 - WED, APR 9, 2025



ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.00000 %	0.000 mg/g	0.01 mg	0.01 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	ND	N/A	N/A	N/A	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids	<LOQ	N/A	N/A	N/A	N/A	0.006 ug/g	0.03 ug/g	N/A





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

Modified Test Method does not include the following analytes:
Bromide, inorganic (calculated as bromide ion)
Chlorpyrifos-methyl
Dichlofluanid
Dithiocarbamates (as CS2)
Parathion-methyl and Paraoxon-methyl (sum of)





ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
S-421	ND	N/A	0.04 ng/g	0.08 ng/g	N/A
Tecnazene	ND	N/A	0.1 ng/g	0.2 ng/g	N/A
Tetradifon	ND	N/A	0.6 ng/g	1.2 ng/g	N/A
Vinclozolin	ND	N/A	0.8 ng/g	1.6 ng/g	N/A

Modified Test Method does not include the following analytes:

- Bromide, inorganic (calculated as bromide ion)
- Chlorpyrifos-methyl
- Dichlofluanid
- Dithiocarbamates (as CS2)
- Parathion-methyl and Paraoxon-methyl (sum of)





ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Acephate	ND	N/A	12.5 ng/g	25 ng/g	N/A
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	N/A	12.5 ng/g	25 ng/g	N/A
Cypermethrin	ND	N/A	12.5 ng/g	25 ng/g	N/A
Deltamethrin	ND	N/A	12.5 ng/g	25 ng/g	N/A
Diazinon	ND	N/A	12.5 ng/g	25 ng/g	N/A
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

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Bromide, inorganic (calculated as bromide ion)
Chlorpyrifos-methyl
Dichlofluanid
Dithiocarbamates (as CS2)
Parathion-methyl and Paraoxon-methyl (sum of)





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

Modified Test Method does not include the following analytes:
Bromide, inorganic (calculated as bromide ion)
Chlorpyrifos-methyl
Dichlofluanid
Dithiocarbamates (as CS2)
Parathion-methyl and Paraoxon-methyl (sum of)



TAMC

TOTAL AEROBIC BACTERIA - PLATE

LAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS

TAMC-DTS-250331-039-01 - TUE, APR 8, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	ND	N/A	10 CFU/g	10 CFU/g	N/A

SS

SALMONELLA & STEC- QPCR

LAB-TM-006 - MICROBIAL ANALYSIS BY QPCR

SS-DTS-250331-039-01 - WED, APR 9, 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 - PLATE

LAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS

TYMFD-DTS-250331-039-01 - WED, APR 9, 2025

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

HPMET

HEAVY METALS - 7

LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS

HPMET-DTS-250331-039-01 - TUE, APR 8, 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	0.005 ug/g	0.000 mg/g	1.71 ug	1.71 ug	N/A	0.627 ug/kg	2.091 ug/kg	N/A
Copper	0.021 ug/g	0.000 mg/g	7.41 ug	7.41 ug	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Lead	ND	N/A	N/A	N/A	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Mercury	0.001 ug/g	0.000 mg/g	0.20 ug	0.20 ug	N/A	0.017 ug/kg	0.057 ug/kg	N/A
Nickel	0.003 ug/g	0.000 mg/g	1.02 ug	1.02 ug	N/A	0.321 ug/kg	1.071 ug/kg	N/A

