

CERTIFICATE OF ANALYSIS

SAMPLE NAME: PART #30220 - UPRISING TROPICAL PUNCH (15 ML) 12 PACK

SAMPLE CODE: DTS-240724-027

CLIENT: MIT45

BATCH RESULT: PASS



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MATRIX NAME: Tincture - Oil Based

SAMPLE TYPE: Quality Assurance

RECEIVED DATE: Thu, Jul 25, 2024

PUBLISHED DATE: Tue, Jul 30, 2024

BATCH/LOT CODE: 00-1326

BATCH SIZE: 9U

SAMPLE SIZE: 135mL

AVERAGE UNIT WEIGHT: 15.897g (Density
(g/mL) x 15 mL package. 3 servings/package.)

TOTAL MAJOR ALKALOIDS 21.26 mg/ serv

TOTAL MINOR ALKALOIDS 0.02 mg/ serv

MITRAGYNINE 21.13 mg/ serv



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
TAMC Total Aerobic Bacteria Plate	DEN Density of Liquids	SAUR Staphylococcus aureus Plate	AWA Water Activity	HVMET Heavy Metals 4
TYMFD Total Yeast & Mold Plate		FTIRR Identification by FTIR Report		

Leslie Varela

RESULTS REVIEWED BY: Leslie Varela
Laboratory Director
Cambium Analytica
Tuesday, Jul 30, 2024

Douglas Smith

RESULTS CERTIFIED BY: Douglas Smith
VP - Scientific Operations
Cambium Analytica
Tuesday, Jul 30, 2024

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ALKU KRATOM ALKALOIDS - HIGH LEVEL LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD ALKU-DTS-240724-027-02 - MON, JUL 29, 2024								
ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	0.399 %	3.988 mg/g	21.13 mg	63.40 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.002 %	0.025 mg/g	0.13 mg	0.40 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	ND	ND	ND	ND	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	ND	ND	ND	ND	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	0.401 %	4.013 mg/g	21.26 mg	63.79 mg	N/A			N/A

ALKL KRATOM ALKALOIDS - LOW LEVEL LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ ALKL-DTS-240724-027-01 - WED, JUL 24, 2024								
ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.0003 %	0.0030 mg/g	0.02 mg	0.05 mg	N/A	0.01 ug/kg	0.1 ug/kg	N/A
Mitraphylline	ND	ND	ND	ND	N/A	0.01 ug/kg	0.1 ug/kg	N/A
Total Minor Alkaloids	0.0003 %	0.0030 mg/g	0.02 mg	0.05 mg	N/A	0.01 ug/kg	0.1 ug/kg	N/A



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
1,2-Dichloroethane	ND	5 ug/g	0.4 ug/g	1.34 ug/g	PASS
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	5000 ug/g	1.57 ug/g	5.23 ug/g	PASS
Acetonitrile	ND	410 ug/g	1.85 ug/g	6.17 ug/g	PASS
Benzene	ND	2 ug/g	0.18 ug/g	0.59 ug/g	PASS
Butane	ND	N/A	1.68 ug/g	5.59 ug/g	N/A
Chloroform	ND	60 ug/g	0.78 ug/g	2.59 ug/g	PASS
Ethanol	309.618 ug/g	5000 ug/g	6.02 ug/g	20.1 ug/g	PASS
Ethyl Acetate	ND	5000 ug/g	1.95 ug/g	6.49 ug/g	PASS
Ethyl Ether	ND	5000 ug/g	1.37 ug/g	4.55 ug/g	PASS
Ethylene Oxide	ND	N/A	0.15 ug/g	0.49 ug/g	N/A
Heptane	ND	5000 ug/g	1.31 ug/g	4.37 ug/g	PASS
Hexane	ND	290 ug/g	1.42 ug/g	4.74 ug/g	PASS
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	3000 ug/g	7.89 ug/g	26.4 ug/g	PASS
Methylene Chloride	ND	600 ug/g	1.36 ug/g	4.53 ug/g	PASS
Neopentane	ND	N/A	1.49 ug/g	4.97 ug/g	N/A
Pentane	ND	5000 ug/g	1.46 ug/g	4.87 ug/g	PASS
Propane	ND	N/A	1.95 ug/g	6.51 ug/g	N/A
Toluene	ND	890 ug/g	1.88 ug/g	6.26 ug/g	PASS
Total Xylenes	ND	2170 ug/g	2.02 ug/g	6.72 ug/g	PASS
Trichloroethylene	ND	80 ug/g	0.29 ug/g	0.96 ug/g	PASS
Butanes (Sum of Butane and Isobutane)	ND	N/A			N/A
Hexanes (Sum of Hexane, 2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane, and 3-Methylpentane)	ND	290 ug/g			PASS
Pentanes (Sum of Pentane, 2-Methylbutane, and Neopentane)	ND	5000 ug/g			PASS



SAL

SALMONELLA - 25G QPCR

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

SAL-DTS-240724-027-01 - WED, JUL 24, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Salmonella Spp	ND	Detection	1 CFU/g		PASS

ECOLI

TOTAL E. COLI & COLIFORMS - PLATE

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

ECOLI-DTS-240724-027-01 - WED, JUL 24, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
E. coli	ND	Detection	10 CFU/g	10 CFU/g	PASS
Total Coliforms	ND	1000 CFU/g	10 CFU/g	10 CFU/g	PASS

TAMC

TOTAL AEROBIC BACTERIA - PLATE

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

TAMC-DTS-240724-027-01 - WED, JUL 24, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	ND	10000 CFU/g	100 CFU/g	100 CFU/g	PASS

DEN

DENSITY OF LIQUIDS

LAB-TM-017 - BRIX & DENSITY ANALYSIS

DEN-DTS-240724-027-01 - WED, JUL 24, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Density	1.060 g/mL	N/A	N/A	N/A	N/A

SAUR

STAPHYLOCOCCUS AUREUS - PLATE

LAB-TM-062 - ENUMERATION OF STAPHYLOCOCCUS AUREUS IN FOODS AND DIETARY SUPPLEMENTS

SAUR-DTS-240724-027-01 - WED, JUL 24, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
S. aureus	ND	Detection	10 CFU/g	10 CFU/g	PASS

AWA

WATER ACTIVITY

LAB-TM-009 - DETERMINATION OF WATER ACTIVITY

AWA-DTS-240724-027-01 - WED, JUL 24, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Water Activity	0.938 aw	N/A			N/A

HVMET

HEAVY METALS - 4

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

HVMET-DTS-240724-027-01 - WED, JUL 24, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	ND	1 ug/g	0.282 ug/kg	0.282 ug/kg	PASS
Cadmium	<LOQ	1 ug/g	0.627 ug/kg	2.091 ug/kg	PASS
Lead	0.007 ug/g	3 ug/g	0.155 ug/kg	0.515 ug/kg	PASS
Mercury	0.001 ug/g	1 ug/g	0.082 ug/kg	0.272 ug/kg	PASS



TYMFD

TOTAL YEAST & MOLD - PLATE

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

TYMFD-DTS-240724-027-01 - WED, JUL 24, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	40.0 CFU/g	N/A	10 CFU/g	10 CFU/g	N/A

FTIRR

IDENTIFICATION BY FTIR - REPORT

NULL - IDENTIFICATION BY FTIR

FTIRR-DTS-240724-027-01 - WED, JUL 24, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Quality Index Score	99.99 %	95-100 N/A			PASS

