CERTIFICATE OF ANALYSIS

SAMPLE NAME: 45% EXTRACT SOFTGEL – 112526

SAMPLE CODE: DTS-240501-038

CLIENT: KATS BOTANICALS

BATCH RESULT: PASS

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MATRIX NAME: Pill - Softgel
SAMPLE TYPE: Compliance
RECEIVED DATE: Wed, May 8, 2024
PUBLISHED DATE: Thu, May 16, 2024
BATCH/LOT CODE: N/A
BATCH SIZE: N/A
SAMPLE SIZE: 70g
AVERAGE UNIT WEIGHT: 0.5662g (1 softgel)

MITRAGYNINE	21.95 mg / serv
TOTAL MAJOR ALKALOIDS	31.79 mg / serv
TOTAL MINOR ALKALOIDS	0.03 mg / serv

ALKU ✓	ALKL ✓	SAL ✓	ECOLI ✓	TAMC ✓
Kratom Alkaloids	Kratom Alkaloids	Salmonella	Total E. Coli & Coliforms	Total Aerobic Bacteria
High Level	Low Level	25g qPCR	Plate	Plate
ENTRO ✓	TYMFD ✓	HPMET ✓		
Enterobacteriacae	Total Yeast & Mold	Heavy Metals		
Plate	Plate	7		

APPROVALS

RESULTS REVIEWED BY:

Leslie Varela
Laboratory Director
Cambium Analytica
Thursday, May 16, 2024

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific Operations
Cambium Analytica
Thursday, May 16, 2024

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ALKU

KRATOM ALKALOIDS - HIGH LEVEL

LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD
ALKU-DTS-240501-038-04 - MON, MAY 13, 2024

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	3.877 %	38.770 mg/g	21.95 mg	21.95 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.823 %	8.230 mg/g	4.66 mg	4.66 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.485 %	4.850 mg/g	2.75 mg	2.75 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.430 %	4.304 mg/g	2.44 mg	2.44 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	**5.615 %**	**56.154 mg/g**	**31.79 mg**	**31.79 mg**	N/A			N/A

ALKL

KRATOM ALKALOIDS - LOW LEVEL

LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ
ALKL-DTS-240501-038-01 - WED, MAY 1, 2024

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.00536 %	0.05364 mg/g	0.03 mg	0.03 mg	N/A	0.01 ug/kg	0.1 ug/kg	N/A
Mitraphylline	0.00003 %	0.00026 mg/g	0.00 mg	0.00 mg	N/A	0.01 ug/kg	0.1 ug/kg	N/A
Total Minor Alkaloids	**0.00539 %**	**0.05390 mg/g**	**0.03 mg**	**0.03 mg**	N/A	0.01 ug/kg	0.1 ug/kg	N/A

SAL

SALMONELLA - 25G QPCR

LAB-TM-063 - DETECTION AND ISOLATION OF SALMONELLA SPP. IN FOODS AND DIETARY SUPPLEMENTS
SAL-DTS-240501-038-01 - WED, MAY 1, 2024

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

ECOLI

TOTAL E. COLI & COLIFORMS - PLATE

LAB-TM-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS
ECOLI-DTS-240501-038-01 - WED, MAY 1, 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

TAMC

TOTAL AEROBIC BACTERIA - PLATE

LAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS
TAMC-DTS-240501-038-01 - WED, MAY 1, 2024

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

ENTRO

ENTEROBACTERIACAE - PLATE

LAB-TM-084 - ENUMERATION OF ENTEROBACTERIACEAE
ENTRO-DTS-240501-038-01 - WED, MAY 1, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Enterobacteriaceae	ND	N/A	10 CFU/g	10 CFU/g	N/A

TYMFD

TOTAL YEAST & MOLD - PLATE

LAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS
TYMFD-DTS-240501-038-01 - WED, MAY 1, 2024

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-240501-038-01 - WED, MAY 1, 2024

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	0.035 ug/g	N/A	0.02 ug	0.02 ug	N/A	0.198 ug/kg	0.662 ug/kg	N/A
Cadmium	0.003 ug/g	N/A	0.00 ug	0.00 ug	N/A	0.082 ug/kg	0.272 ug/kg	N/A
Chromium	0.199 ug/g	N/A	0.11 ug	0.11 ug	N/A	0.627 ug/kg	2.091 ug/kg	N/A
Copper	0.391 ug/g	N/A	0.22 ug	0.22 ug	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Lead	0.030 ug/g	N/A	0.02 ug	0.02 ug	N/A	0.282 ug/kg	0.282 ug/kg	N/A
Mercury	0.003 ug/g	N/A	0.00 ug	0.00 ug	N/A	0.017 ug/kg	0.057 ug/kg	N/A
Nickel	0.279 ug/g	N/A	0.16 ug	0.16 ug	N/A	0.321 ug/kg	1.071 ug/kg	N/A