CERTIFICATE OF ANALYSIS

SAMPLE NAME: KB-592-TPS

SAMPLE CODE: DTS-240705-002

CLIENT: KATS BOTANICALS

BATCH RESULT: PASS

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MATRIX NAME: Botanical Powder - Plant
SAMPLE TYPE: Quality Assurance
RECEIVED DATE: Mon, Jul 8, 2024
PUBLISHED DATE: Tue, Jul 16, 2024
BATCH CODE: 592204WBAP
BATCH SIZE: N/A
SAMPLE SIZE: 1U

TOTAL MAJOR ALKALOIDS	2.157%
TOTAL MINOR ALKALOIDS	0.0014%
MITRAGYNINE	1.291%

ALKU ✓	ALKL ✓	ECOLI ✓	TAMC ✓	SS ✓
Kratom Alkaloids	Kratom Alkaloids	Total E. Coli & Coliforms	Total Aerobic Bacteria	Salmonella & STEC
High Level	Low Level	Plate	Plate	qPCR

TYMFD ✓	HPMET ✓
Total Yeast & Mold	Heavy Metals
Plate	7

RESULTS REVIEWED BY: Leslie Varela
Laboratory Director
Cambium Analytica
Tuesday, Jul 16, 2024

RESULTS CERTIFIED BY: Douglas Smith
VP - Scientific Operations
Cambium Analytica
Tuesday, Jul 16, 2024

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ALKU

KRATOM ALKALOIDS - HIGH LEVEL

LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD
ALKU-DTS-240705-002-01 - FRI, JUL 5, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	1.291 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.407 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.290 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.169 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	**2.157 %**	N/A			N/A

ALKL

KRATOM ALKALOIDS - LOW LEVEL

LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ
ALKL-DTS-240705-002-01 - TUE, JUL 9, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.0014 %	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
Total Minor Alkaloids	**0.0014 %**	N/A	0.01 ug/kg	0.1 ug/kg	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-240705-002-02 - THU, JUL 11, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
E. coli	ND	20 CFU/g	10 CFU/g	10 CFU/g	PASS
Total Coliforms	**5700 CFU/g**	10000 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-240705-002-01 - FRI, JUL 5, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	**27000 CFU/g**	10000000 CFU/g	1000 CFU/g	1000 CFU/g	PASS

SS

SALMONELLA & STEC- QPCR

LAB-TM-006 - MICROBIAL ANALYSIS BY QPCR
SS-DTS-240705-002-01 - FRI, JUL 5, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Salmonella Spp	ND	Detection			PASS
Shiga Toxin Producing E. coli	ND	N/A			N/A

TYMFD

TOTAL YEAST & MOLD - PLATE

LAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS
TYMFD-DTS-240705-002-01 - FRI, JUL 5, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	**100 CFU/g**	100000 CFU/g	10 CFU/g	10 CFU/g	PASS

HPMET

HEAVY METALS - 7

LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS
HPMET-DTS-240705-002-01 - FRI, JUL 5, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	0.193 ug/g	1000 ug/g	0.198 ug/kg	0.662 ug/kg	PASS
Cadmium	0.035 ug/g	0.4 ug/g	0.082 ug/kg	0.272 ug/kg	PASS
Chromium	1.638 ug/g	N/A	0.627 ug/kg	2.091 ug/kg	N/A
Copper	19.637 ug/g	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Lead	0.570 ug/g	1.25 ug/g	0.282 ug/kg	0.282 ug/kg	PASS
Mercury	0.019 ug/g	0.2 ug/g	0.017 ug/kg	0.057 ug/kg	PASS
Nickel	3.554 ug/g	20 ug/g	0.321 ug/kg	1.071 ug/kg	PASS