CERTIFICATE OF ANALYSIS

SAMPLE NAME: KB-597-TPS

SAMPLE CODE: DTS-240705-004

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: Thu, Jul 11, 2024
BATCH CODE: 597200GMDP
BATCH SIZE: 1oz
SAMPLE SIZE: 1oz

TOTAL MAJOR ALKALOIDS	2.057%
TOTAL MINOR ALKALOIDS	0.0014%
MITRAGYNINE	1.260%

ALKU ✓
Kratom Alkaloids
High Level

ALKL ✓
Kratom Alkaloids
Low Level

ECOLI ✓
Total E. Coli & Coliforms
Plate

TAMC ✓
Total Aerobic Bacteria
Plate

SS ✓
Salmonella & STEC
qPCR

TYMFD ✓
Total Yeast & Mold
Plate

HPMET ✓
Heavy Metals
7

RESULTS REVIEWED BY: Leslie Varela
Laboratory Director
Cambium Analytica
Thursday, Jul 11, 2024

RESULTS CERTIFIED BY: Douglas Smith
VP - Scientific Operations
Cambium Analytica
Thursday, Jul 11, 2024

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ALKU

KRATOM ALKALOIDS - HIGH LEVEL

LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD
ALKU-DTS-240705-004-01 - FRI, JUL 5, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	1.260 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.369 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.269 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.159 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	**2.057 %**	N/A			N/A

ALKL

KRATOM ALKALOIDS - LOW LEVEL

LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ
ALKL-DTS-240705-004-01 - TUE, JUL 9, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.0013 %	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-240705-004-01 - FRI, JUL 5, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
E. coli	ND	20 CFU/g	10 CFU/g	10 CFU/g	PASS
Total Coliforms	**ND**	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-240705-004-01 - FRI, JUL 5, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	**3000 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-240705-004-01 - 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-240705-004-01 - FRI, JUL 5, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	**20 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-240705-004-01 - FRI, JUL 5, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	0.178 ug/g	1000 ug/g	0.198 ug/kg	0.662 ug/kg	PASS
Cadmium	0.024 ug/g	0.4 ug/g	0.082 ug/kg	0.272 ug/kg	PASS
Chromium	1.278 ug/g	N/A	0.627 ug/kg	2.091 ug/kg	N/A
Copper	18.048 ug/g	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Lead	0.890 ug/g	1.25 ug/g	0.282 ug/kg	0.282 ug/kg	PASS
Mercury	0.021 ug/g	0.2 ug/g	0.017 ug/kg	0.057 ug/kg	PASS
Nickel	2.471 ug/g	20 ug/g	0.321 ug/kg	1.071 ug/kg	PASS