CERTIFICATE OF ANALYSIS

SAMPLE NAME: KB-603-TPS

SAMPLE CODE: DTS-240719-009

CLIENT: KATS BOTANICALS

BATCH RESULT: PASS

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MATRIX NAME: Botanical Powder - Plant
SAMPLE TYPE: Quality Assurance
RECEIVED DATE: Mon, Jul 22, 2024
PUBLISHED DATE: Thu, Jul 25, 2024
BATCH/LOT CODE: 603214GMYP
BATCH SIZE: N/A
SAMPLE SIZE: 1U

TOTAL MAJOR ALKALOIDS	2.148%
TOTAL MINOR ALKALOIDS	0.0008%
MITRAGYNINE	1.301%

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 25, 2024

RESULTS CERTIFIED BY: Douglas Smith
VP - Scientific Operations
Cambium Analytica
Thursday, Jul 25, 2024

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KRATOM ALKALOIDS - HIGH LEVEL

ALKU

LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD
ALKU-DTS-240719-009-01 - FRI, JUL 19, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	1.301 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.394 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.285 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.167 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	**2.148 %**	N/A			N/A

KRATOM ALKALOIDS - LOW LEVEL

ALKL

LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ
ALKL-DTS-240719-009-01 - FRI, JUL 19, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.0008 %	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	**0.0008 %**	N/A	0.01 ug/kg	0.1 ug/kg	N/A

TOTAL E. COLI & COLIFORMS - PLATE

ECOLI

LAB-TM-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS
ECOLI-DTS-240719-009-01 - FRI, JUL 19, 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

TOTAL AEROBIC BACTERIA - PLATE

TAMC

LAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS
TAMC-DTS-240719-009-01 - FRI, JUL 19, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	400 CFU/g	10000000 CFU/g	100 CFU/g	100 CFU/g	PASS

SALMONELLA & STEC- QPCR

SS

LAB-TM-006 - MICROBIAL ANALYSIS BY QPCR
SS-DTS-240719-009-01 - FRI, JUL 19, 2024

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

TOTAL YEAST & MOLD - PLATE

TYMFD

LAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS
TYMFD-DTS-240719-009-01 - FRI, JUL 19, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	ND	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-240719-009-01 - FRI, JUL 19, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	0.136 ug/g	1000 ug/g	0.198 ug/kg	0.662 ug/kg	PASS
Cadmium	0.017 ug/g	0.4 ug/g	0.082 ug/kg	0.272 ug/kg	PASS
Chromium	1.031 ug/g	N/A	0.627 ug/kg	2.091 ug/kg	N/A
Copper	16.029 ug/g	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Lead	0.803 ug/g	1.25 ug/g	0.282 ug/kg	0.282 ug/kg	PASS
Mercury	0.014 ug/g	0.2 ug/g	0.017 ug/kg	0.057 ug/kg	PASS
Nickel	2.343 ug/g	20 ug/g	0.321 ug/kg	1.071 ug/kg	PASS