Certificate of Analysis

Sample Name: 45% Softgel
Client: Kats Botanicals
Sample Code: DTS-260227-054
Matrix Name: Pill - Softgel
Type / Result: Quality Assurance - Pass



Received Date: Mon, Mar 2, 2026
Published Date: Thu, Mar 5, 2026
Batch/Lot Code: 012728
Batch Size: 30g
Sample Size: 30g

RESULT SUMMARY

Mitragynine	4.5774 %
Total Major Alkaloids	5.9351 %

ALKU ✓
Kratom Alkaloids
High Level

ALKL ✓
Kratom Alkaloids
Low Level

ECOLI ✓
Total Coliforms & E. coli
Plate

HVMET ✓
Heavy Metals
Big 4

TYMFD ✓
Total Yeast & Mold
Plate

SOLHM ✓
Residual Solvents
National Panel

Approvals

RESULTS REVIEWED BY:

Leslie Varela
Laboratory Director
Cambium Analytica
Thursday, Mar 5, 2026

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific Operations
Cambium Analytica
Thursday, Mar 5, 2026

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Lab Information

Address: 1230 Woodmere Ave, Traverse City, MI 49686 **Phone:** 231.252.3669 **Accreditation:** ISO/IEC 17025:2017 – #108157

ALKU

Kratom Alkaloids - High Level

LAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD
ALKU-DTS-260227-054-01 - WED, MAR 4, 2026

Analyte	Value	Value (mg/g)	Action Limit	LOD	LOQ	Status
Mitragynine	4.5774 %	45.7740 mg/g	N/A	0.0005 mg/g	0.001 mg/g	N/A
Paynantheine	0.6086 %	6.0863 mg/g	N/A	0.0005 mg/g	0.001 mg/g	N/A
Speciogynine	0.4332 %	4.3316 mg/g	N/A	0.0005 mg/g	0.001 mg/g	N/A
Speciociliatine	0.3160 %	3.1595 mg/g	N/A	0.0005 mg/g	0.001 mg/g	N/A
Total Major Alkaloids*	5.9351 %	59.3514 mg/g	N/A	N/A	N/A	N/A

Total Major Alkaloids is calculated as the sum of Mitragynine, Paynantheine, Speciociliatine and Speciogynine.

ALKL

Kratom Alkaloids - Low Level

LAB-TM-047 - Determination of Kratom Alkaloid Content by LC-TQ
ALKL-DTS-260227-054-01 - THU, MAR 5, 2026

Analyte	Value	Value (mg/g)	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00090 %	0.00904 mg/g	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	0.00050 %	0.00500 mg/g	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids*	0.00140 %	0.01404 mg/g	N/A	N/A	N/A	N/A

Total Minor Alkaloids is calculated as the sum of 7-Hydroxymitragynine and Mitraphylline.

ECOLI

Total Coliforms & E. coli - Plate - 25g - Full Range

LAB-TM-059 - Enumeration of Escherichia coli and Total Coliform in Foods and Dietary Supplements
ECOLI-DTS-260227-054-01 - WED, MAR 4, 2026

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

USP <61> - Vendor Modified, USP <2021> - Vendor Modified, USP <1223>, AOAC PTM 051801, AOAC OMA 2018.13

HVMET

Heavy Metals - Big 4

LAB-TM-044 - Determination of Heavy Metals by ICP-MS
HVMET-DTS-260227-054-01 - WED, MAR 4, 2026

Analyte	Value	Value (mg/g)	Action Limit	LOD	LOQ	Status
Arsenic	ND	N/A	N/A	9.962 ug/kg	19.924 ug/kg	N/A
Cadmium	ND	N/A	N/A	9.962 ug/kg	19.924 ug/kg	N/A
Lead	0.021 ug/g	0.000 mg/g	N/A	9.962 ug/kg	19.924 ug/kg	N/A
Mercury	ND	N/A	N/A	0.996 ug/kg	1.992 ug/kg	N/A

USP <233>, USP <730>, USP <1730>

TYMFD

Total Yeast & Mold - Plate - 25g - Full Range

LAB-TM-061 - Enumeration of Yeast and Mold in Foods and Dietary Supplements

TYMFD-DTS-260227-054-01 - THU, MAR 5, 2026

Analyte	Value	Action Limit	LOD	LOQ	Status
Total Mold	ND	N/A	10 CFU/g	10 CFU/g	N/A
Total Yeast	ND	N/A	10 CFU/g	10 CFU/g	N/A
Total Yeast and Mold*	ND	100000 CFU/g	10 CFU/g	10 CFU/g	PASS

**Total Yeast and Mold is calculated as the sum of Total Yeast and Total Mold*

USP <61> - Vendor Modified, USP <1223>, AOAC PTM 121301, AOAC OMA 2014.05

SOLHM

Residual Solvents - National Panel

ANA-TM-053 - Determination of Residual Solvents

SOLHM-DTS-260227-054-01 - WED, MAR 4, 2026

ISO 17025 ACCR 108157

Analyte	Value	Action Limit	LOD	LOQ	Status
1,1-Dichloroethene	ND	N/A	5 ug/g	10 ug/g	N/A
1,2-Dichloroethane	ND	N/A	0.5 ug/g	1.00 ug/g	N/A
2-Methylbutane	ND	N/A	5 ug/g	10 ug/g	N/A
2-Methylpentane	ND	N/A	5 ug/g	10 ug/g	N/A
2,2-Dimethylbutane	ND	N/A	5 ug/g	10 ug/g	N/A
2,3-Dimethylbutane	ND	N/A	5 ug/g	10 ug/g	N/A
3-Methylpentane	ND	N/A	5 ug/g	10 ug/g	N/A
Acetone	ND	N/A	5 ug/g	10 ug/g	N/A
Acetonitrile	ND	N/A	5 ug/g	10 ug/g	N/A
Benzene	ND	N/A	0.18 ug/g	0.50 ug/g	N/A
Butane	ND	N/A	5 ug/g	10 ug/g	N/A
Chloroform	ND	N/A	0.78 ug/g	1 ug/g	N/A
Ethanol	ND	N/A	5 ug/g	10 ug/g	N/A
Ethyl Acetate	ND	N/A	5 ug/g	10 ug/g	N/A
Ethyl Ether	ND	N/A	5 ug/g	10 ug/g	N/A
Ethylene Oxide	ND	N/A	2 ug/g	4 ug/g	N/A
Heptane	ND	N/A	5 ug/g	10 ug/g	N/A
Hexane	ND	N/A	5 ug/g	10 ug/g	N/A
Isobutane	ND	N/A	5 ug/g	10 ug/g	N/A
Isopropyl Alcohol	72.399 ug/g	N/A	5 ug/g	10 ug/g	N/A
Methanol	ND	N/A	5 ug/g	10 ug/g	N/A
Methylene Chloride	ND	N/A	5 ug/g	10 ug/g	N/A
Neopentane	ND	N/A	5 ug/g	10 ug/g	N/A
Pentane	ND	N/A	5 ug/g	10 ug/g	N/A
Propane	ND	N/A	5 ug/g	10 ug/g	N/A
Toluene	ND	N/A	5 ug/g	10 ug/g	N/A
Total Xylenes	ND	N/A	5 ug/g	10 ug/g	N/A
Trichloroethylene	ND	N/A	0.5 ug/g	1 ug/g	N/A
Total Butanes*	0.000 ug/g	N/A	N/A	N/A	N/A
Total Hexanes*	0.000 ug/g	N/A	N/A	N/A	N/A
Total Pentanes*	0.000 ug/g	N/A	N/A	N/A	N/A

**Total Butanes is calculated as the sum of Butane and Isobutane*

**Total Hexanes is calculated as the sum of Hexane, 2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane, and 3-Methylpentane.*

**Total Pentanes is calculated as the sum of Pentane, 2-Methylbutane, and Neopentane.*

Modified USP <467>