

# Certificate of Analysis



**Sample Name:** AEL.Black-94  
**Client:** Antidote Extract Labs  
**Sample Code:** DTS-250911-037  
**Matrix Name:** Extract - Liquid  
**Type / Result:** Quality Assurance - Pass



**Received Date:** Tue, Sep 16, 2025  
**Published Date:** Mon, Sep 22, 2025  
**Batch/Lot Code:** AEL.B-101  
**Batch Size:** N/A  
**Sample Size:** 1U  
**Average Unit Weight:** 120g (24 servings per package.)

## RESULT SUMMARY

Mitragynine	40.06 mg /serv
Total Major Alkaloids	48.32 mg /serv

ALKU   
**Kratom Alkaloids**  
High Level

ALKL   
**Kratom Alkaloids**  
Low Level

SOL   
**Residual Solvents**


TAMC   
**Total Aerobic Bacteria**  
Plate

HVMET   
**Heavy Metals**  
Big 4

TYMFD   
**Total Yeast & Mold**  
Plate

## Approvals

### RESULTS REVIEWED BY:

 **Leslie Varela**  
Laboratory Director  
Cambium Analytica  
Monday, Sep 22, 2025

### RESULTS CERTIFIED BY:

 **Douglas Smith**  
VP - Scientific Operations  
Cambium Analytica  
Monday, Sep 22, 2025

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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-250911-037-01 - THU, SEP 18, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	0.8013 %	8.0127 mg/g	40.06 mg	961.52 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.1002 %	1.0018 mg/g	5.01 mg	120.21 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.0524 %	0.5241 mg/g	2.62 mg	62.89 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.0125 %	0.1248 mg/g	0.62 mg	14.98 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids*	0.9663 %	9.6633 mg/g	48.32 mg	1159.59 mg	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-250911-037-01 - THU, SEP 18, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00193 %	0.01928 mg/g	0.10 mg	2.31 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	ND	N/A	N/A	N/A	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids*	0.00193 %	0.01928 mg/g	0.10 mg	2.31 mg	N/A	N/A	N/A	N/A

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



SOL

## Residual Solvents

ANA-TM-004 - Determination of Residual Solvents

SOL-DTS-250911-037-01 - THU, SEP 18, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
1,2-Dichloroethane	ND	5 ug/g	0.5 ug/g	1.00 ug/g	PASS
2-Methylbutane	ND	N/A	1.54 ug/g	5.14 ug/g	N/A
2-Methylpentane	ND	N/A	0.046 ug/g	0.154 ug/g	N/A
2,2-Dimethylbutane	ND	N/A	0.98 ug/g	3.27 ug/g	N/A
2,3-Dimethylbutane	ND	N/A	2.19 ug/g	7.32 ug/g	N/A
3-Methylpentane	ND	N/A	0.73 ug/g	2.44 ug/g	N/A
Acetone	ND	5000 ug/g	1.57 ug/g	5.23 ug/g	PASS
Acetonitrile	ND	410 ug/g	1.85 ug/g	6.17 ug/g	PASS
Benzene	ND	2 ug/g	0.18 ug/g	0.50 ug/g	PASS
Butane	ND	N/A	1.68 ug/g	5.59 ug/g	N/A
Chloroform	ND	60 ug/g	0.78 ug/g	1.00 ug/g	PASS
Ethanol	ND	5000 ug/g	6.02 ug/g	20.1 ug/g	PASS
Ethyl Acetate	ND	5000 ug/g	1.95 ug/g	6.49 ug/g	PASS
Ethyl Ether	ND	5000 ug/g	1.37 ug/g	4.55 ug/g	PASS
Ethylene Oxide	ND	N/A	0.15 ug/g	0.49 ug/g	N/A
Heptane	ND	5000 ug/g	1.31 ug/g	4.37 ug/g	PASS
Hexane	ND	290 ug/g	1.42 ug/g	4.74 ug/g	PASS
Isobutane	ND	N/A	1.6 ug/g	5.34 ug/g	N/A
Isopropyl Alcohol	ND	N/A	4.9 ug/g	16.3 ug/g	N/A
Methanol	ND	3000 ug/g	7.89 ug/g	26.4 ug/g	PASS
Methylene Chloride	ND	600 ug/g	1.36 ug/g	4.53 ug/g	PASS
Neopentane	ND	N/A	1.49 ug/g	4.97 ug/g	N/A
Pentane	ND	5000 ug/g	1.46 ug/g	4.87 ug/g	PASS
Propane	ND	N/A	1.95 ug/g	6.51 ug/g	N/A
Toluene	ND	890 ug/g	1.88 ug/g	6.26 ug/g	PASS
Total Xylenes	ND	2170 ug/g	2.02 ug/g	6.72 ug/g	PASS
Trichloroethylene	ND	80 ug/g	0.29 ug/g	0.96 ug/g	PASS
Total Butanes*	0.000 ug/g	N/A	N/A	N/A	N/A
Total Hexanes*	0.000 ug/g	290 ug/g	N/A	N/A	PASS
Total Pentanes*	0.000 ug/g	5000 ug/g	N/A	N/A	PASS

\*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.



TAMC

**Total Aerobic Bacteria - Plate - 25g - Full Range**

LAB-TM-060 - Enumeration of Total Aerobic Count in Foods and Dietary Supplements  
TAMC-DTS-250911-037-01 - THU, SEP 18, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
Total Aerobic Count	ND	10000 CFU/g	100 CFU/g	100 CFU/g	PASS

HVMET

**Heavy Metals - Big 4**

LAB-TM-044 - Determination of Heavy Metals by ICP-MS  
HVMET-DTS-250911-037-01 - THU, SEP 18, 2025



Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Arsenic	0.053 ug/g	0.000 mg/g	0.27 ug	6.41 ug	1.5 ug/g	0.509 ug/kg	2.062 ug/kg	PASS
Cadmium	ND	N/A	N/A	N/A	0.2 ug/g	0.256 ug/kg	0.509 ug/kg	PASS
Lead	ND	N/A	N/A	N/A	5 ug/g	0.255 ug/kg	0.515 ug/kg	PASS
Mercury	0.000 ug/g	0.000 mg/g	0.00 ug	0.01 ug	1 ug/g	0.025 ug/kg	0.057 ug/kg	PASS

TYMFD

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

LAB-TM-061 - Enumeration of Yeast and Mold in Foods and Dietary Supplements  
TYMFD-DTS-250911-037-01 - FRI, SEP 19, 2025



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	N/A	10 CFU/g	10 CFU/g	N/A

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

