

Certificate of Analysis

Sample Name: Kratom Seltzer - Black Cherry
Client: Mitra9-ZIA
Sample Code: DTS-251205-022
Matrix Name: Beverage
Type / Result: N/A - Pass



Received Date: Mon, Dec 8, 2025
Published Date: Fri, Dec 12, 2025
Batch/Lot Code: 20512052025ZIA
Batch Size: N/A
Sample Size: 6U
Average Unit Weight: 359.97g

RESULT SUMMARY

Mitragynine	45.33 mg /serv
Total Major Alkaloids	45.33 mg /serv

ALKU Kratom Alkaloids High Level ✓	ALKL Kratom Alkaloids Low Level ✓	TAMC Total Aerobic Bacteria Plate ✓	BRX Brix of Liquids ✓	COOX Dissolved CO2 & O2 Liquids ✓
PH pH ✓	HVMET Heavy Metals Big 4 ✓	TYMFD Total Yeast & Mold Plate ✓	PAKLI Lot / Batch Code Verification ✓	PAKVI Package Integrity Verification ✓

Approvals

RESULTS REVIEWED BY:

 **Leslie Varela**
Laboratory Director
Cambium Analytica
Friday, Dec 12, 2025

RESULTS CERTIFIED BY:

 **Douglas Smith**
VP - Scientific
Operations
Cambium Analytica
Friday, Dec 12, 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-251205-022-01 - WED, DEC 10, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	0.0126 %	0.1259 mg/g	45.33 mg	45.33 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	ND	N/A	N/A	N/A	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	ND	N/A	N/A	N/A	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogyne	ND	N/A	N/A	N/A	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids*	0.0126 %	0.1259 mg/g	45.33 mg	45.33 mg	N/A	N/A	N/A	N/A

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

ALKL

Kratom Alkaloids - Low Level

LAB-TM-047 - Determination of Kratom Alkaloid Content by LC-TQ
 ALKL-DTS-251205-022-01 - THU, DEC 11, 2025



Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00001 %	0.00005 mg/g	0.02 mg	0.02 mg	0.7 mg/serv	0.002 ug/g	0.011 ug/g	PASS
Mitraphylline	ND	N/A	N/A	N/A	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids*	0.00001 %	0.00005 mg/g	0.02 mg	0.02 mg	N/A	N/A	N/A	N/A

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

TAMC

Total Aerobic Bacteria - Plate - 25g - Full Range

LAB-TM-060 - Enumeration of Total Aerobic Count in Foods and Dietary Supplements
 TAMC-DTS-251205-022-01 - WED, DEC 10, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
Total Aerobic Count	ND	10000 CFU/g	10 CFU/g	10 CFU/g	PASS

BRX

Brix of Liquids

LAB-TM-017 - Brix & Density Analysis
 BRX-DTS-251205-022-01 - TUE, DEC 9, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Brix	0.4 bx	N/A	N/A	N/A	N/A

COOX

Dissolved CO2 & O2 - Liquids

LAB-TM-020 - Determination of Carbon Dioxide and Dissolved Oxygen in Beverages
 COOX-DTS-251205-022-01 - FRI, DEC 12, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
Dissolved Carbon Dioxide	2.42 vol	2.35 - 2.85 vol	N/A	N/A	PASS
Dissolved Oxygen	3055.5 ug/kg	N/A	N/A	N/A	N/A

PH

pH

LAB-TM-018 - Determination of pH
 PH-DTS-251205-022-01 - TUE, DEC 9, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
pH	2.734	N/A	N/A	N/A	N/A



HVMET

Heavy Metals - Big 4

LAB-TM-044 - Determination of Heavy Metals by ICP-MS
HVMET-DTS-251205-022-01 - WED, DEC 10, 2025



Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Arsenic	ND	N/A	N/A	N/A	10 ug/serv	0.509 ug/kg	2.062 ug/kg	PASS
Cadmium	ND	N/A	N/A	N/A	4.1 ug/serv	0.256 ug/kg	0.509 ug/kg	PASS
Lead	<LOQ	N/A	N/A	N/A	0.5 ug/serv	0.255 ug/kg	0.515 ug/kg	PASS
Mercury	<LOQ	N/A	N/A	N/A	0.3 ug/serv	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-251205-022-01 - THU, DEC 11, 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	1000 CFU/g	10 CFU/g	10 CFU/g	PASS

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

PAKLI

Lot / Batch Code - Verification

LAB-TM-118 - Lot Batch Code Verification
PAKLI-DTS-251205-022-01 - WED, DEC 10, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Lot/Batch Code Verification	Nonconforming - Minor	N/A	N/A	N/A	N/A

Printed Lot Code on 2/6 physical products was incorrect (see attached photos) . Testing proceeded with uncompromised unit.

PAKVI

Package Integrity - Verification

LAB-TM-117 - Package Integrity Verification
PAKVI-DTS-251205-022-01 - WED, DEC 10, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Child Resistent Mechanism	Conforming	N/A	N/A	N/A	N/A
Discoloration	Conforming	N/A	N/A	N/A	N/A
Label Legibility	Conforming	N/A	N/A	N/A	N/A
Label Placement	Conforming	N/A	N/A	N/A	N/A
Dents & Dings	Conforming	N/A	N/A	N/A	N/A
Seams and Tabs	Conforming	N/A	N/A	N/A	N/A
Wrinkles & Pleats	Conforming	N/A	N/A	N/A	N/A

