

Certificate of Analysis



Sample Name: DLD White powder
Client: Direct Leaf Distribution
Sample Code: DTS-251209-065
Matrix Name: Raw Plant Material
Type / Result: Quality Assurance - Pass



Received Date: Fri, Dec 12, 2025
Published Date: Mon, Dec 22, 2025
Batch/Lot Code: DLDW0126
Batch Size: N/A
Sample Size: 1U

RESULT SUMMARY

Mitragynine	1.4947 %
Total Major Alkaloids	2.5097 %

ALKU ✓ Kratom Alkaloids High Level	ALKL ✓ Kratom Alkaloids Low Level	MOS ✓ Moisture Content Loss on Drying	TAMC ✓ Total Aerobic Bacteria Plate	SS ✓ Salmonella & STEC qPCR
HVMET ✓ Heavy Metals Big 4	TYMFD ✓ Total Yeast & Mold Plate	7OHFL ✓ 7-Hydroxymitragynine Florida		

Approvals

RESULTS REVIEWED BY:

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

RESULTS CERTIFIED BY:

 **Douglas Smith**
VP - Scientific Operations
Cambium Analytica
Monday, Dec 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 LevelLAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD
ALKU-DTS-251209-065-02 - WED, DEC 17, 2025

Analyte	Value	Value (mg/g)	Action Limit	LOD	LOQ	Status
Mitragynine	1.4947 %	14.9466 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.4541 %	4.5405 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.3612 %	3.6123 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.1998 %	1.9978 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids*	2.5097 %	25.0972 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 LevelLAB-TM-047 - Determination of Kratom Alkaloid Content by LC-TQ
ALKL-DTS-251209-065-01 - WED, DEC 17, 2025

Analyte	Value	Value (mg/g)	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00391 %	0.03914 mg/g	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	0.00003 %	0.00030 mg/g	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids*	0.00394 %	0.03944 mg/g	N/A	N/A	N/A	N/A

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

MOS

Moisture Content - Loss on DryingLAB-TM-008 - Loss on Drying
MOS-DTS-251209-065-01 - MON, DEC 22, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Moisture	3.50 %	N/A	N/A	N/A	N/A

TAMC

Total Aerobic Bacteria - Plate - 25g - Full RangeLAB-TM-060 - Enumeration of Total Aerobic Count in Foods and Dietary Supplements
TAMC-DTS-251209-065-02 - THU, DEC 18, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Total Aerobic Count	1600000 CFU/g	N/A	100000 CFU/g	100000 CFU/g	N/A

SS

Salmonella & STEC - qPCRLAB-TM-006 - Microbial Analysis by qPCR
SS-DTS-251209-065-01 - WED, DEC 17, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Salmonella spp.	ND	N/A	N/A	N/A	N/A
Shiga Toxin Producing E. coli	ND	N/A	N/A	N/A	N/A



HVMET

Heavy Metals - Big 4LAB-TM-044 - Determination of Heavy Metals by ICP-MS
HVMET-DTS-251209-065-01 - TUE, DEC 16, 2025

Analyte	Value	Value (mg/g)	Action Limit	LOD	LOQ	Status
Arsenic	0.256 ug/g	0.000 mg/g	N/A	0.509 ug/kg	2.062 ug/kg	N/A
Cadmium	0.026 ug/g	0.000 mg/g	N/A	0.256 ug/kg	0.509 ug/kg	N/A
Lead	0.734 ug/g	0.001 mg/g	N/A	0.255 ug/kg	0.515 ug/kg	N/A
Mercury	0.024 ug/g	0.000 mg/g	N/A	0.025 ug/kg	0.057 ug/kg	N/A

TYMFD

Total Yeast & Mold - Plate - 25g - Full RangeLAB-TM-061 - Enumeration of Yeast and Mold in Foods and Dietary Supplements
TYMFD-DTS-251209-065-02 - MON, DEC 22, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Total Mold	69000 CFU/g	N/A	1000 CFU/g	1000 CFU/g	N/A
Total Yeast	6000 CFU/g	N/A	1000 CFU/g	1000 CFU/g	N/A
Total Yeast and Mold*	75000 CFU/g	N/A	1000 CFU/g	1000 CFU/g	N/A

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

Due to limited sample quantity submitted, testing was conducted on a 1-gram aliquot

7OHFL

7-Hydroxymitragynine - Florida - Dry-Weight Basis7-Hydroxymitragynine - (Florida — Dry-Weight Basis)
7OHFL-DTS-251209-065-01 - MON, DEC 22, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine - As Received*	0.00 ppm	N/A	N/A	N/A	N/A
7-Hydroxymitragynine - Dry-Weight*	40.52 ppm	400 ppm	N/A	N/A	PASS
Moisture (%) by Input*	3.50 %	N/A	N/A	N/A	N/A

*7-Hydroxymitragynine - As Received: The "As Received" value represents the concentration of 7-hydroxymitragynine, expressed in parts per million (ppm), as reported in the Kratom Alkaloids - Low Level test. This corresponds to the measured percentage of 7-hydroxymitragynine in the sample as received.

*7-Hydroxymitragynine (Dry-Weight Basis): The dry weight concentration of 7-hydroxymitragynine is calculated using the following formula: Dry Weight 7-Hydroxymitragynine (ppm) = 7-Hydroxymitragynine (ppm) x (100 / (100 - Moisture by Input (%)))

*The Moisture (%) by Input result may represent either a client-provided input or a value measured by Cambium. This value is incorporated into associated calculated analytes for reporting purposes.

