

Certificate of Analysis

Sample Name: DLD Trainwreck powder
Client: Direct Leaf Distribution
Sample Code: DTS-251209-067
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: DLDTW0126
Batch Size: N/A
Sample Size: 1U

RESULT SUMMARY	
Mitragynine	1.2683 %
Total Major Alkaloids	2.1133 %

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:			RESULTS CERTIFIED BY:		
	Leslie Varela Laboratory Director	Cambium Analytica Monday, Dec 22, 2025		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 Level LAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD ALKU-DTS-251209-067-02 - WED, DEC 17, 2025						
Analyte	Value	Value (mg/g)	Action Limit	LOD	LOQ	Status
Mitragynine	1.2683 %	12.6832 mg/g	N/A	0.3 ug/g	0.5 ug/g	N / A
Speciociliatine	0.3770 %	3.7700 mg/g	N/A	0.3 ug/g	0.5 ug/g	N / A
Paynantheine	0.3013 %	3.0130 mg/g	N/A	0.3 ug/g	0.5 ug/g	N / A
Speciogynine	0.1667 %	1.6669 mg/g	N/A	0.3 ug/g	0.5 ug/g	N / A
Total Major Alkaloids*	2.1133 %	21.1332 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-251209-067-01 - WED, DEC 17, 2025						
Analyte	Value	Value (mg/g)	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00459 %	0.04589 mg/g	N/A	0.002 ug/g	0.011 ug/g	N / A
Mitraphylline	0.00002 %	0.00019 mg/g	N/A	0.004 ug/g	0.019 ug/g	N / A
Total Minor Alkaloids*	0.00461 %	0.04608 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 Drying LAB-TM-008 - Loss on Drying MOS-DTS-251209-067-01 - MON, DEC 22, 2025						
Analyte	Value	Action Limit	LOD	LOQ	Status	
Moisture	4.00 %	N/A	N/A	N/A	N / A	

TAMC Total Aerobic Bacteria - Plate - 25g - Full Range LAB-TM-060 - Enumeration of Total Aerobic Count in Foods and Dietary Supplements TAMC-DTS-251209-067-01 - TUE, DEC 16, 2025						
Analyte	Value	Action Limit	LOD	LOQ	Status	
Total Aerobic Count	30000 CFU/g	N/A	1000 CFU/g	1000 CFU/g	N / A	

SS					
Salmonella & STEC - qPCR					
LAB-TM-006 - Microbial Analysis by qPCR					
SS-DTS-251209-067-01 - 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 4 LAB-TM-044 - Determination of Heavy Metals by ICP-MS HVMET-DTS-251209-067-01 - TUE, DEC 16, 2025 						
Analyte	Value	Value (mg/g)	Action Limit	LOD	LOQ	Status
Arsenic	0.216 ug/g	0.000 mg/g	N/A	0.509 ug/kg	2.062 ug/kg	N / A
Cadmium	0.027 ug/g	0.000 mg/g	N/A	0.256 ug/kg	0.509 ug/kg	N / A
Lead	0.656 ug/g	0.001 mg/g	N/A	0.255 ug/kg	0.515 ug/kg	N / A
Mercury	0.019 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 Range

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

TYMFD-DTS-251209-067-02 - MON, DEC 22, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
Total Mold	35000 CFU/g	N/A	1000 CFU/g	1000 CFU/g	N / A
Total Yeast	ND	N/A	1000 CFU/g	1000 CFU/g	N / A
Total Yeast and Mold*	35000 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 Basis

7-Hydroxymitragynine - (Florida — Dry-Weight Basis)

7OHFL-DTS-251209-067-01 - 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*	47.81 ppm	400 ppm	N/A	N/A	PASS
Moisture (%) by Input*	4.00 %	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.

