

# Certificate of Analysis

## Lunar Dust 002

Client: Alkaloid Bros



### Analysis Summary

	%
Mitragynine	1.059
7-OH Mitragynine	89.437
Paynantheine	0.196
Speciogynine	ND
Speciociliatine	0.158
Corynantheidine	0.160
Mitraphylline	ND
9-O-desmethyl Mitragynine	ND
Corynoxine B	ND
Ajmalicine	ND
Isomitraphylline	ND
Mitraciliatine	ND
Mitragynine pseudoindoxyl	0.41
MGM-15 (CAS No. 1158901-38-2)	ND
Total Quantified Alkaloids	91.42

### Analysis Overview

Residual Solvents & Processing Chemicals	Pass
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**Sample Name:**

Lunar Dust 002

**Matrix:**

Other

**Unit Mass:**

1 g per unit

**Sample ID:**

75560604-1

**Date Received:**

6/4/26

*Marie*

Approved By:

Marie True, M.S.

Laboratory Manager

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**References:** limit of quantitation (LOQ), not detected (ND), not tested (NT)

# Certificate of Analysis

## Kratom Alkaloid Analysis

Complete

Analyte	LOD (%)	LOQ (%)	Mass (%)	Mass (mg/g)
Mitragynine	0.016	0.049	1.059	10.59
7-OH Mitragynine	0.019	0.058	89.437	894.37
Paynantheine	0.022	0.066	0.196	1.96
Speciogynine	0.019	0.056	ND	ND
Speciociliatine	0.018	0.054	0.158	1.58
Corynantheidine	0.024	0.073	0.160	1.60
Mitraphylline	0.017	0.052	ND	ND
9-O-desmethyl Mitragynine	0.017	0.050	ND	ND
Corynoxine B	0.022	0.066	ND	ND
Ajmalicine	0.024	0.071	ND	ND
Isomitraphylline	0.019	0.057	ND	ND
Mitraciliatine	0.020	0.060	ND	ND
Mitragynine pseudoindoxyl	0.033	0.098	0.409	4.09
MGM-15 (CAS No. 1158901-38-2)	0.011	0.03	ND	ND
<b>Total Quantified Alkaloids</b>			<b>91.419</b>	<b>914.19</b>

## Residual Solvents Analysis

Pass

Analyte	LOQ (µg/g)	Limit (mg/g)	Mass (mg/g)	Status
Acetone	0.490	5.00	ND	Pass
Acetonitrile	0.460	0.41	ND	Pass
Benzene	0.590	0.00	ND	Pass
Butane	0.560	N/A	ND	N/A
Chloroform	0.510	0.06	ND	Pass
1,2-Dichloroethane	0.570	0.01	ND	Pass
Ethanol	0.470	5.00	ND	Pass
Ethyl Acetate	0.520	5.00	ND	Pass
Ethyl Ether	0.480	5.00	ND	Pass
Ethylene Oxide	0.460	0.01	ND	Pass
Heptane	0.520	5.00	ND	Pass
n-Hexane	0.540	0.29	ND	Pass
Isopropanol	0.580	5.00	ND	Pass
Methanol	0.460	3.00	ND	Pass
Methylene Chloride	0.560	0.60	ND	Pass
Pentane	0.520	5.00	ND	Pass
Propane	0.510	N/A	ND	N/A
Toluene	0.480	0.89	ND	Pass
Trichloroethylene	0.520	0.08	ND	Pass
Xylenes	0.580	2.17	ND	Pass

### Method References:

HPLC SOP K5316L - Diode Array Detector, Liquid Chromatography.

HSGCMS02 - Headspace Gas Chromatography with Mass Spectrometric Detection for Residual Solvents Panel