

Certificate of Analysis

Mars Crystals 002 - 73%

Client: Alkaloid Bros



Analysis Summary

	%
Mitragynine	1.104
7-OH Mitragynine	67.959
Paynantheine	0.139
Speciogynine	0.644
Speciociliatine	0.701
Corynantheidine	0.549
Mitraphylline	ND
9-O-desmethyl Mitragynine	ND
Corynoxine B	ND
Ajmalicine	ND
Isomitraphylline	ND
Mitraciliatine	0.166
Mitragynine pseudoindoxyl	0.92
MGM-15 (CAS No. 1158901-38-2)	ND
Total Quantified Alkaloids	72.18

Analysis Overview

Residual Solvents & Processing Chemicals	Pass
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Sample Name:

Mars Crystals 002 - 73%

Matrix:

Other

Unit Mass:

1 g per unit

Sample ID:

75560624-6

Date Received:

6/24/2026

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	1.104	11.04
7-OH Mitragynine	0.019	0.058	67.959	679.59
Paynantheine	0.022	0.066	0.139	1.39
Speciogynine	0.019	0.056	0.644	6.44
Speciociliatine	0.018	0.054	0.701	7.01
Corynantheidine	0.024	0.073	0.549	5.49
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	0.166	1.66
Mitragynine pseudoindoxyl	0.033	0.098	0.921	9.21
MGM-15 (CAS No. 1158901-38-2)	0.011	0.03	ND	ND
Total Quantified Alkaloids			72.184	721.84

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	1.4000	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	0.0090	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