

Certificate of Analysis

Mars Crystal

Client: Alkaloid Bros



Analysis Summary

	%
Mitragynine	1.189
7-OH Mitragynine	67.566
Paynantheine	ND
Speciogynine	ND
Speciociliatine	ND
Corynantheidine	0.863
Mitraphylline	ND
9-O-desmethyl Mitragynine	ND
Corynoxine B	ND
Ajmalicine	ND
Isomitraphylline	ND
Mitraciliatine	ND
Mitragynine pseudoindoxyl	1.66
MGM-15 (CAS No. 1158901-38-2)	ND
Total Quantified Alkaloids	71.28

Analysis Overview

Residual Solvents & Processing Chemicals	Pass
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Sample Name:

Mars Crystal

Matrix:

Other

Unit Mass:

1 g per unit

Sample ID:

75560410-3

Date Received:

4/10/26

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	1.189	11.89
7-OH Mitragynine	0.019	0.058	67.566	675.66
Paynantheine	0.022	0.066	ND	ND
Speciogynine	0.019	0.056	ND	ND
Speciociliatine	0.018	0.054	ND	ND
Corynantheidine	0.024	0.073	0.863	8.63
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	1.658	16.58
MGM-15 (CAS No. 1158901-38-2)	0.011	0.03	ND	ND
Total Quantified Alkaloids			71.276	712.76

Residual Solvents Analysis

Pass

Analyte	LOQ (µg/g)	Limit (mg/g)	Mass (mg/g)	Status
Acetone	0.490	5.000	ND	Pass
Acetonitrile	0.460	0.410	ND	Pass
Benzene	0.590	0.002	ND	Pass
Butane	0.560	N/A	ND	N/A
Chloroform	0.510	0.060	ND	Pass
1,2-Dichloroethane	0.570	0.005	ND	Pass
Ethanol	0.470	5.000	ND	Pass
Ethyl Acetate	0.520	5.000	2.1000	Pass
Ethyl Ether	0.480	5.000	ND	Pass
Ethylene Oxide	0.460	0.010	ND	Pass
Heptane	0.520	5.000	ND	Pass
n-Hexane	0.540	0.290	ND	Pass
Isopropanol	0.580	5.000	ND	Pass
Methanol	0.460	3.000	ND	Pass
Methylene Chloride	0.560	0.600	ND	Pass
Pentane	0.520	5.000	ND	Pass
Propane	0.510	N/A	ND	N/A
Toluene	0.480	0.890	ND	Pass
Trichloroethylene	0.520	0.080	ND	Pass
Xylenes	0.580	2.170	ND	Pass

Method References:

HPLC SOP K5316L - Diode Array Detector, Liquid Chromatography.

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