FOOD & ENVIRONMENT SAFETY ANALYTICAL LAB

Certificate of Analysis

Analysis Summary	Percent (%)	mg/serving
Mitragynine	16.356	158.853
7-OH Mitragynine	ND	ND
Paynantheine	2.640	25.639
Speciogynine	1.776	17.248
Speciociliatine	0.479	4.656
Corynantheidine	ND	ND
Mitraphylline	ND	ND
9-O-desmethyl Mitragynine	ND	ND
Corynoxine B	ND	ND
Ajmalicine	ND	ND
Isomitraphylline	ND	ND
Mitraciliatine	0.044	0.432
Mitragynine pseudoindoxyl	ND	ND
MGM-15	ND	ND
Total Quantified Alkaloids	21.296	206.828

Analysis Overview

ResidualSolvents&Processing Chemicals	Pass

Matrix:
Other

Unit Mass:
0.9712 g per unit

Date Received:
8/19/26

Approved By:
Marie True, M.S.
Laboratory Manager

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

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Certificate of Analysis

Kratom Alkaloid Analysis

Complete

Analyte	LOD (%)	LOQ (%)	Percent (%)	mg/serving
Mitragynine	**0.016**	**0.049**	**16.356**	**158.85**
7-OH Mitragynine	0.019	0.058	ND	ND
Paynantheine	**0.022**	**0.066**	**2.640**	**25.64**
Speciogynine	**0.019**	**0.056**	**1.776**	**17.25**
Speciociliatine	**0.018**	**0.054**	**0.479**	**4.66**
Corynantheidine	0.024	0.073	ND	ND
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**	**0.044**	**0.43**
Mitragynine pseudoindoxyl	0.033	0.098	ND	ND
MGM-15	0.011	0.03	ND	ND
Total Quantified Alkaloids			**21.296**	**206.83**

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	0.0550	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