FOOD & ENVIRONMENT SAFETY ANALYTICAL LAB

Date Issued: 11/3/26

Certificate of Analysis

R&D
Report

Analysis Summary	Percent (%)	mg/serving
Mitragynine	19.589	172.889
7-OH Mitragynine	ND	ND
Paynantheine	2.504	22.099
Speciogynine	1.697	14.975
Speciociliatine	0.551	4.863
Corynantheidine	0.337	2.976
Mitraphylline	ND	ND
9-O-desmethyl Mitragynine	ND	ND
Corynoxine B	ND	ND
Ajmalicine	ND	ND
Isomitraphylline	ND	ND
Mitraciliatine	ND	ND
Mitragynine pseudoindoxyl	ND	ND
MGM-16	ND	ND
MGM-15	ND	ND
Total Quantified Alkaloids	24.677	217.802

Analysis Overview

Residual Solvents & Processing Chemicals	Pass

Matrix:
Other

Unit Mass:
0.8826 g per unit

Date Received:
10/30/26

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

R&D
Report

Kratom Alkaloid Analysis

Complete

Analyte	LOD (%)	LOQ (%)	Percent (%)	mg/serving
Mitragynine	**0.016**	**0.049**	**19.589**	**172.89**
7-OH Mitragynine	0.019	0.058	ND	ND
Paynantheine	**0.022**	**0.066**	**2.504**	**22.10**
Speciogynine	**0.019**	**0.056**	**1.697**	**14.98**
Speciociliatine	**0.018**	**0.054**	**0.551**	**4.86**
Corynantheidine	**0.024**	**0.073**	**0.337**	**2.98**
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	0.632	1.916	ND	ND
MGM-16	0.006	0.02	ND	ND
MGM-15	0.011	0.03	ND	ND
Total Quantified Alkaloids			**24.677**	**217.80**

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	0.1520	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