



Certificate ID: **132443 (Reissued)** Received: **6/2/25**
 Client Sample ID: **Vital Elements/MIT Therapy Traditional Mixed Malay**
 Lot Number: **1TT0410/3TT0410**
 Matrix: **Kratom Powder-Ground Plant Material**

Scan QR Code for authenticity



Mit Therapy
2623 S. Fry Street
Boise, ID 83709

Authorization:	Signature:	Date:
Andrew Aubin, Lab Director		6/6/2025



The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2017. I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

KR: Kratom Alkaloids [WI-10-44]

Analyst: *AJA*

Test Date: *6/3/2025*

The client sample was analyzed for plant-based alkaloids by Liquid Chromatography (LC) with PDA detection. The collected data was compared to data collected for certified reference standard at a known concentrations. The presence or absence of all listed compounds were confirmed via UV spectral matching.

132443-KR

Compound	CAS	Weight %	Concentration (mg/capsule)
Mitragynine	4098-40-2	1.47	9.96
Speciociliatine	14382-79-7	0.414	2.80
Paynantheine	4697-66-9	0.266	1.80
Speciogynine	4697-67-0	0.242	1.64
7-Hydroxy Mitragynine	174418-82-7	ND	ND
Total		2.39	16.2

ND – Not Detected at a level greater than the reporting limit (RL).

HM: Heavy Metal Analysis [WI-10-13]

Analyst: ZDV

Test Date: 6/5/2025

This sample was analyzed by elemental analysis using Inductively Coupled Plasma Mass Spectrometry (ICP-MS) for the identification of heavy metal constituents. External calibration curves for heavy metals were used for quantitation, with an additional internal reference standard. Resulting data was compared with a sample blank. This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

132443-HM

Symbol	Metal	Conc. ¹ (mg/kg)	RL	Use Limits ² (mg/kg)	Status
As	Arsenic	0.164	0.0500	2.00	PASS
Cd	Cadmium	ND	0.0500	0.820	PASS
Hg	Mercury	ND	0.0500	0.400	PASS
Ni	Nickel	1.99	0.0500	20.0	PASS
Pb	Lead	0.545	0.0500	1.20	PASS

1) ND = None detected above the indicated Reporting Limit (RL)

2) Testing limits established by the Utah Agriculture and Food, Regulatory Services (R70), Kratom Product Registration and Labeling (R70-580), Authority and Purpose (R70-580-1) - Pursuant to Section 4-45-107, this rule establishes the requirements for labeling and registration of products made from and containing kratom. Nickel specification according to oral drug products per USP.

MB1: Microbiological Contaminants [WI-10-09]

Analyst: SRD

Test Date: 6/2/2025

This sample was analyzed for microbiological contaminants using an automated Most Probable Number (MPN) methodology with cultured enrichments. This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

132443-MB1

Symbol	Analysis	Results	Units	Limits*	Status
AC	Total Aerobic Bacterial Count	=1,300	CFU/g	100,000 CFU/g	PASS
CC	Total Coliform Bacterial Count	<100	CFU/g	1,000 CFU/g	PASS
EB	Total Bile Tolerant Gram Negative Count	<100	CFU/g	1,000 CFU/g	PASS
YM	Total Yeast & Mold	=320	CFU/g	10,000 CFU/g	PASS

*Testing limits established by the Utah Agriculture and Food, Regulatory Services (R70), Kratom Product Registration and Labeling (R70-580), Authority and Purpose (R70-580-1) - Pursuant to Section 4-45-107, this rule establishes the requirements for labeling and registration of products made from and containing kratom.

MB2: Pathogenic Bacterial Contaminants [WI-10-10]

Analyst: AEH

Test Date: 6/4/2025

This sample was analyzed for pathogenic bacteria using an automated Enzyme Linked Fluorescent Assay (ELFA), based on a 100 g sample size, with 24-hour enrichment prior to analysis. This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety. Quality control checks are performed monthly by running both a positive and a negative control sample for each pathogen. Reports may not be reproduced except in their entirety.

132443-MB2

Test ID	Analysis	Results	Units	Limits*	Status
132443-U100-ECPT	E. coli (O157)	0 CFU/100g	NA	Non Detected	PASS
132443-U100-SPT	Salmonella	0 CFU/100g	NA	Non Detected	PASS

Note: Sample size used in testing was 100 grams.

VC: Analysis of Volatile Organic Compounds [WI-10-28]**Analyst: KEM****Test Date: 6/2/2025**

This sample was analyzed for residual solvents using Head-Space Gas Chromatography with Mass Spectrometric detection (HS-GC/MS). The collected data was compared to data collected for a reference standards at a known concentrations with an additional internal reference standard.

132443-VC

Compound	CAS	Amount ¹	Limit ²	RL	Status
Propane	74-98-6	ND	1,000 ppm	4	PASS
Isobutane	75-28-5	ND	1,000 ppm	4	PASS
Butane	106-97-8	ND	1,000 ppm	4	PASS
Methanol	67-56-1	173 ppm	3,000 ppm	100	PASS
Pentane	109-66-0	ND	5,000 ppm	100	PASS
Ethanol	64-17-5	ND	5,000 ppm	100	PASS
Acetone	67-64-1	ND	5,000 ppm	100	PASS
Isopropanol	67-63-0	ND	5,000 ppm	100	PASS
Acetonitrile	75-05-8	ND	410 ppm	100	PASS
Hexane	110-54-3	ND	290 ppm	100	PASS
Heptane	142-82-5	ND	5,000 ppm	100	PASS

1) ND = Not detected at a level greater than the Reporting Limit (RL).

2) In ppm, based on USP recommended limits for residual solvents, adopted by the Massachusetts Department of Public Health for cannabis concentrates and extracts on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

(*) For ethanol, as many formulations contain flavorings based on ethanol extracts of natural products, no status has been assigned.

END OF REPORT