

Certificate of Analysis for



Received: 9/22/2025 @ 24.2 °C

CT0925MM-1P

Sample ID: 2509A42-001

ACR.1a: AC by mass via AOAC 2015.13 (Petrifilm™) Analyzed 09/24/25

Aerobic Plate Count	< 10	CFU/g
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CCR.1a: CC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 09/24/25

Total Coliform Bacteria	< 10	CFU/g
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ECR.1a: EC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 09/24/25

Escherichia coli	< 10	CFU/g
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ICPMS.1Metals via AOAC 2015.01 Modified (ICP/MS) Analyzed 09/26/25

Arsenic (As)	< 0.0200	mg/kg (ppm)	Cadmium (Cd)	< 0.0100	mg/kg (ppm)
Lead (Pb)	0.0136	mg/kg (ppm)	Mercury (Hg)	< 0.00500	mg/kg (ppm)

Kava.1: USP Monograph for Piper methysticum Root - Content of Kavalactones by HPLC-UV Analyzed 09/23/25

Desmethoxyyangonin	0.293	mg/mL	Dihydrokawain	0.700	mg/mL
Dihydromethysticin	0.230	mg/mL	Kawain	0.733	mg/mL
Methysticin	0.239	mg/mL	Total Kavalactones	2.54	mg/mL
Yangonin	0.344	mg/mL			

MIT.2: Kratom Alkaloids via HPLC-DAD Analyzed 09/23/25

7-Hydroxymitragynine	< 0.0100	mg/mL	Isorhynchophylline	< 0.100	mg/mL
Mitragynine	< 0.0100	mg/mL	Mitraphylline	< 0.100	mg/mL
Paynantheine	< 0.0100	mg/mL	Speciociliatine	< 0.0100	mg/mL
Speciogynine	< 0.0100	mg/mL	Total Alkaloids	< 0.0100	mg/mL

Salm.1: Salmonella via AOAC 081201, 2013.02 (BAX® PCR) Analyzed 09/25/25

Salmonella spp.	Negative	/10 g
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STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm™) Analyzed 09/24/25

Staphylococcus aureus	< 10	CFU/g
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STEC.1: E. coli (O157:H7, O26, O45, O103, O111, O121, O145) via AOAC 091301 (BAX® PCR, STEC Screen) Analyzed 09/25/25

Shiga toxin-producing E. coli (stx-eae)	Negative	/10 g
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YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Analyzed 09/24/25

Yeast and Mold	< 10	CFU/g
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Reported By Jake S Hedges, Chemistry Laboratory Supervisor, 9/29/2025