

Certificate of Analysis

Produced: Mar 19, 2025

Sample: 070A5062B21 (Edible Liquid) • Client: Vanguard Enterprises • Batch: Pass



Batch No.: 070A5062B21
Matrix: Edible Liquid
Density: 1.0121 g/ml
Category: Edible
Sample ID: ICC-250310-15-001
Collected on: Mar 10, 2025
Received on: Mar 10, 2025
Batch Size:
Sample Size: 355 Units
Received By: Stephanie Paule
Package Size: 358.48 g

Batch Result: Pass

Alkaloids	Tested
Solvents	Pass
Metals	Pass
Microbial	Pass

Cannabinoid Overview

Kratom Potency: 38.7 mg/pkg

KRAT-PREP-001: Kratom Potency • Mar 11, 2025

Analyte	Amt (mg/pkg)	Amt (%)	Amt (mg/ml)	LOD/LOQ (mg/g)	Pass/Fail	Analyte	Amt (mg/pkg)	Amt (%)	Amt (mg/ml)	LOD/LOQ (mg/g)	Pass/Fail
Mitragynine	38.7	0.0108	0.109	0.000296/0.00361	N/A	Corynantheidine		ND	ND	0.000460/0.00364	N/A
Paynantheine		< LOQ	< LOQ	0.000212/0.00361	N/A	Speciociliatine		ND	ND	0.000368/0.00361	N/A
Speciogynine		ND	ND	0.000328/0.00361	N/A	7-OH-Mitragynine		ND	ND	0.000271/0.00361	N/A

Compliance requirements for this test are taken from No Compliance regulations.



RS-PREP-001, RS-INST-003: RS-PREP-001, RS-INST-003: Residual Solvents by GC-MS • Mar 18, 2025

Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/ml)	Pass/Fail	Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/ml)	Pass/Fail
1,2-Dichloroethane	1	ND	0.168/0.514	Pass	Hexane	290	ND	0.0666/0.284	Pass
Acetone	5000	ND	17.2/51.7	Pass	Isopropyl alcohol	5000	8.48	1.29/3.87	Pass
Acetonitrile	410	ND	0.121/0.362	Pass	Methanol	3000	9.74	3.00/9.00	Pass
Benzene	1	ND	0.0212/0.0645	Pass	Methylene chloride	1	ND	0.128/0.736	Pass
Butane	5000	ND	0.980/4.89	Pass	Pentane	5000	ND	0.971/4.31	Pass
Chloroform	1	ND	0.0363/0.109	Pass	Propane	5000	ND	4.47/13.4	Pass
Ethanol	5000	342	2.64/7.91	Pass	Toluene	890	< LOQ	0.0888/0.872	Pass
Ethyl acetate	5000	ND	0.316/2.31	Pass	Trichloroethylene	1	ND	0.0182/0.146	Pass
Ethylene oxide	1	ND	0.154/0.584	Pass	o-Xylene		ND	0.102/0.865	N/A
Ethyl ether	5000	ND	1.19/3.58	Pass	p- and m-Xylene		ND	0.116/1.73	N/A
Heptane	5000	ND	0.693/2.88	Pass	Total xylenes	2170	ND	0.0168/0.143	Pass

Compliance requirements for this test are taken from California Cannabis regulations.

HM-PREP-001, HM-INST-003: HM-PREP-001, HM-INST-003: Heavy Metals Testing by ICP-MS • Mar 17, 2025

Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail	Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
Arsenic	1.5	ND	0.00300/0.00900	Pass	Lead	0.5	ND	0.00100/0.00400	Pass
Cadmium	0.5	ND	0.00100/0.00200	Pass	Mercury	3	ND	0.00500/0.0140	Pass

Compliance requirements for this test are taken from California Cannabis regulations.

HM-PREP-001, HM-INST-003: HM-PREP-001, HM-INST-003: Additional Heavy Metals Testing by ICP-MS • Mar 17, 2025

Analyte	Limit	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail	Analyte	Limit	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
Chromium		ND	0.00926/0.0278	N/A	Nickel		ND	0.00517/0.0155	N/A
Copper		ND	0.0109/0.0326	N/A					

Compliance requirements for this test are taken from California Cannabis regulations.

MICRO-PREP-001, MICRO-INST-001: MICRO-PREP-001, MICRO-INST-001: PCR-Microbial (inhalable) • Mar 18, 2025

Analyte	Amt	Pass/Fail	Analyte	Amt	Pass/Fail
Aspergillus flavus	ND	N/A	Aspergillus terreus	ND	N/A
Aspergillus fumigatus	ND	N/A	Salmonella spp.	ND	Pass
Aspergillus niger	ND	N/A	Shiga toxin-producing E. coli	ND	Pass

Compliance requirements for this test are taken from California Cannabis regulations.

MICR-002: MICR-002: Petrifilm-Aerobic • Mar 19, 2025

Analyte	Amt	Pass/Fail
Aerobic Bacteria	ND	Pass

Compliance requirements for this test are taken from Colorado Hemp regulations.

MICR-002: MICR-002: Petrifilm-Coliforms • Mar 19, 2025

Analyte	Amt	Pass/Fail
Coliforms	ND	Pass

Compliance requirements for this test are taken from Colorado Hemp regulations.

MICR-005, MICR-006: MICR-005, MICR-006: Petrifilm-Rapid Yeast & Mold • Mar 19, 2025

Analyte	Amt	Pass/Fail
Yeast & Mold	ND	Pass

Compliance requirements for this test are taken from Colorado Hemp regulations.



Signature