

Certificate of Analysis

Produced: May 28, 2026

Sample: Moscow Mule (Edible Liquid) • Client: Hop The Wave, 38 Evergreen Drive, Portland, ME FDA License #: 15349051600



Batch No.: 051826-2HTW
Matrix: Edible Liquid
Density: 0.998 g/ml
Sample ID: ICC-260526-18-004
Collected on: May 26, 2026
Received on: May 26, 2026
Sample Size: 1 Units
Package Size: 363.37 g

Tests Taken

Potency

Cannabinoid Overview

Total THC:	9.99 mg/pkg
Total CBD:	0.000 mg/pkg
Total Cannabinoids:	9.99 mg/pkg
Sum of Cannabinoids:	9.99 mg/pkg

POT-INST-005: POT-INST-005: Potency • May 28, 2026

Analyte	Amt (mg/pkg)	Amt (%)	Uncertainty	Amt (mg/ml)	LOD/LOQ (mg/ml)	Pass/Fail	Analyte	Amt (mg/pkg)	Amt (%)	Uncertainty	Amt (mg/ml)	LOD/LOQ (mg/ml)	Pass/Fail
CBC		ND	N/A	ND	0.00112/0.00336	N/A	CBT		ND	N/A	ND	0.000486/0.00170	N/A
CBD		ND	N/A	ND	0.000342/0.00170	N/A	Δ ⁸ -THC		ND	N/A	ND	0.000274/0.00170	N/A
CBDA		ND	N/A	ND	0.000820/0.00246	N/A	Δ ⁹ -THC	9.99	0.00275 ± 0.0000287 %		0.0274	0.000453/0.00170	N/A
CBDV		ND	N/A	ND	0.000271/0.00170	N/A	THCA		ND	N/A	ND	0.000624/0.00187	N/A
CBG		ND	N/A	ND	0.000387/0.00170	N/A	THCV		ND	N/A	ND	0.000210/0.00170	N/A
CBGA		ND	N/A	ND	0.000604/0.00182	N/A	Total THC**	9.99	0.00275 ± 0.0000287 %		0.0274		N/A
CBL		ND	N/A	ND	0.000267/0.00170	N/A	Total CBD**		ND		ND		N/A
CBN		ND	N/A	ND	0.000387/0.00170	N/A	Total Cannabinoids*	9.99	0.00275		0.0274		N/A

* Beyond scope of accreditation
** Total Cannabinoids = Neutral Cannabinoids + (Acidic Cannabinoids * 0.877)
** Total THC = Delta-10-THC + (Delta-8-THC + (Delta-8-THCA x 0.877) + Delta-9-THC + THC-O-acetate + (THCA x 0.877)
** Total CBD = CBD + (CBDA x 0.877)
NR= Not Reported, ND= Not Detected, *Reported by Dry Mass*; *analytical instrumentation used Cannabinoids: UHPLC-DAD, Moisture: Mass by Drying, Water Activity: Water Activity Meter, Foreign: Microscope*
*Density tested at a temperature range between 19-24 °C, *Water Activity tested at a humidity range between 0-90% Relative Humidity. All OA samples are sampled by the client, All California State Compliant samples sampled using SAMPL-SOP-001.



Erik Paulson

Certificate of Analysis

Produced: May 29, 2026

Sample: Moscow Mule (Edible Liquid) • Client: Hop The Wave, 38 Evergreen Drive, Portland, ME FDA License #: 15349051600 • Batch: Pass



Batch No.: 051826-2HTW
Matrix: Edible Liquid
Sample ID: ICC-260526-18-003
Collected on: May 26, 2026
Received on: May 26, 2026
Sample Size: 1 Units

Batch Result: Pass

Solvents	Pass	Mycotoxins	Pass
Metals	Pass	Pesticides	Pass
Microbial	Pass	Foreign	Pass

infinite**CAL**

RS-INST-003, RS-PREP-001: RS-INST-003, RS-PREP-001: Residual Solvents by GC-MS • May 28, 2026

Analyte	Limit (µg/g)	Amt (µg/g)	Uncertainty	LOD/LOQ (µg/g)	Pass/Fail	Analyte	Limit (µg/g)	Amt (µg/g)	Uncertainty	LOD/LOQ (µg/g)	Pass/Fail
1,2-Dichloroethane	1	ND	N/A	0.164/0.500	Pass	Hexane	290	ND	N/A	0.0648/0.276	Pass
Acetone	5000	ND	N/A	16.8/50.3	Pass	Isopropyl alcohol	5000	ND	N/A	1.26/3.77	Pass
Acetonitrile	410	ND	N/A	0.118/0.353	Pass	Methanol	3000	ND	N/A	2.92/8.76	Pass
Benzene	1	ND	N/A	0.0206/0.0627	Pass	Methylene chloride	1	ND	N/A	0.125/0.716	Pass
Butane	5000	ND	N/A	0.953/4.76	Pass	Pentane	5000	ND	N/A	0.945/4.19	Pass
Chloroform	1	ND	N/A	0.0353/0.106	Pass	Propane	5000	ND	N/A	4.35/13.1	Pass
Ethanol	5032	2150	± 32.0 µg/g	2.57/7.70	Pass	Toluene	890	ND	N/A	0.0864/0.848	Pass
Ethyl acetate	5000.69	37.4	± 0.690 µg/g	0.307/2.25	Pass	Trichloroethylene	1	ND	N/A	0.0177/0.142	Pass
Ethylene oxide	1	ND	N/A	0.150/0.569	Pass	o-Xylene		ND	N/A	0.0989/0.841	N/A
Ethyl ether	5000	ND	N/A	1.16/3.48	Pass	p- and m-Xylene		ND	N/A	0.113/1.68	N/A
Heptane	5000	ND	N/A	0.675/2.81	Pass	Total xylenes	2170	ND		0.0990/0.842	Pass

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.



Page 1 of 3

Results Certified By: David Marelius PhD
CSO, Infinite Chemical Analysis Labs, CA
May 29, 2026

Results Certified By: Erik Paulson PhD
Lab Director, Infinite Chemical Analysis Labs, CA
May 29, 2026

<https://lims.tagleaf.com/clientCoas/a1edb4a8-03b9-4b5e-9590-2f09f82fcd6>

HM-INST-003, HM-PREP-001: HM-INST-003, HM-PREP-001: Heavy Metals Testing by ICP-MS • May 27, 2026

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

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.

MICRO-008, MICRO-INST-001, MICRO-PREP-001: MICRO-008, MICRO-INST-001, MICRO-PREP-001: PCR-Microbial (noninhalable) • May 27, 2026

Analyte	Limit	Amt	Pass/Fail	Analyte	Limit	Amt	Pass/Fail
Salmonella spp.	Any amt in 1 gram	ND	Pass	Shiga toxin-producing E. coli	Any amt in 1 gram	ND	Pass

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.

MICR-002: MICR-002: Petrifilm-Aerobic • May 27, 2026

Analyte	Limit (CFU/g)	Amt (CFU/g)	Pass/Fail
Aerobic Bacteria	10000	ND	Pass

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

Petrifilm-Listeria • May 28, 2026

Analyte	Limit	Amt	Pass/Fail
Listeria spp.*		ND	N/A

* Beyond scope of accreditation

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.

Petrifilm-E. Coli • May 28, 2026

Analyte	Limit	Amt	Pass/Fail
Escherichia coli		ND	N/A

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.

MICR-002: MICR-002: Petrifilm-Coliforms • May 28, 2026

Analyte	Limit (CFU/g)	Amt (CFU/g)	Pass/Fail
Coliforms	100	ND	Pass

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

MICR-002: MICR-002: Petrifilm-Salmonella • May 29, 2026

Analyte	Limit	Amt	Pass/Fail
Salmonella spp.	Any amt in 1 gram	ND	Pass

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.

PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: Mycotoxin Analysis by LC-MS/MS • May 29, 2026

Analyte	Limit (µg/kg)	Amt (µg/kg)	Uncertainty	LOD/LOQ (µg/kg)	Pass/Fail	Analyte	Limit (µg/kg)	Amt (µg/kg)	Uncertainty	LOD/LOQ (µg/kg)	Pass/Fail
Aflatoxin B1		ND	N/A	1.09/3.28	N/A	Aflatoxin G2		ND	N/A	0.742/2.53	N/A
Aflatoxin B2		ND	N/A	0.949/2.85	N/A	Aflatoxins	20	ND			Pass
Aflatoxin G1		ND	N/A	2.40/7.20	N/A	Ochratoxin A	20	ND	N/A	3.87/11.7	Pass

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.

PEST-GC-INST-003, PEST-GC-PREP-001: PEST-GC-INST-003, PEST-GC-PREP-001: Pesticide Analysis by GC-MS/MS • May 29, 2026

Analyte	Limit (µg/g)	Amt (µg/g)	Uncertainty	LOD/LOQ (µg/g)	Pass/Fail	Analyte	Limit (µg/g)	Amt (µg/g)	Uncertainty	LOD/LOQ (µg/g)	Pass/Fail
Captan	5	ND	N/A	0.120/0.358	Pass	Cypermethrin	1	ND	N/A	0.0145/0.0435	Pass
Chlordane	Any amt	ND	N/A	0.0249/0.0747	Pass	Methyl parathion	Any amt	ND	N/A	0.00811/0.0243	Pass
Chlorfenapyr	Any amt	ND	N/A	0.0251/0.0753	Pass	Pentachloronitrobenzene	0.2	ND	N/A	0.0182/0.0545	Pass
Cyfluthrin	1	ND	N/A	0.0186/0.0558	Pass						

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.



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Erik Paulson

PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: Pesticide Analysis by LC-MS/MS • May 29, 2026

Analyte	Limit (µg/g)	Amt (µg/g)	Uncertainty	LOD/LOQ (µg/g)	Pass/Fail	Analyte	Limit (µg/g)	Amt (µg/g)	Uncertainty	LOD/LOQ (µg/g)	Pass/Fail
Abamectin	0.3	ND		0.0500/0.100	Pass	Methiocarb	Any amt	ND	N/A	0.0156/0.0473	Pass
Abamectin Ba		ND	N/A	0.0330/0.0990	N/A	Methomyl	0.1	ND	N/A	0.0158/0.0479	Pass
Acephate	5	ND	N/A	0.0164/0.0497	Pass	Mevinphos	Any amt	ND	N/A	0.0139/0.0423	Pass
Acequinocyl	4	ND	N/A	0.0194/0.0587	Pass	Myclobutanil	9	ND	N/A	0.0180/0.0546	Pass
Acetamiprid	5	ND	N/A	0.0146/0.0442	Pass	Naled	0.5	ND	N/A	0.0170/0.0514	Pass
Aldicarb	Any amt	ND	N/A	0.0216/0.0654	Pass	Oxamyl	0.2	ND	N/A	0.0153/0.0465	Pass
Azoxystrobin	40	ND	N/A	0.00960/0.0291	Pass	Paclobutrazol	Any amt	ND	N/A	0.0132/0.0400	Pass
Bifenazate	5	ND	N/A	0.0115/0.0349	Pass	Permethrin	20	ND		0.00831/0.0300	Pass
Bifenthrin	0.5	ND	N/A	0.0130/0.0395	Pass	Permethrin cis		ND	N/A	0.0200/0.0300	N/A
Boscalid	10	ND	N/A	0.0197/0.0596	Pass	Permethrin trans		ND	N/A	0.0200/0.0300	N/A
Carbaryl	0.5	ND	N/A	0.0160/0.0486	Pass	Phosmet	0.2	ND	N/A	0.0125/0.0377	Pass
Carbofuran	Any amt	ND	N/A	0.00902/0.0300	Pass	Piperonylbutoxide	8	ND	N/A	0.00759/0.0300	Pass
Chlorantraniliprole	40	ND	N/A	0.0209/0.0632	Pass	Prallethrin	0.4	ND	N/A	0.0226/0.0685	Pass
Chlorpyrifos	Any amt	ND	N/A	0.0176/0.0534	Pass	Propiconazole	20	ND	N/A	0.0195/0.0590	Pass
Clofentezine	0.5	ND	N/A	0.0129/0.0389	Pass	Propoxur	Any amt	ND	N/A	0.0155/0.0471	Pass
Coumaphos	Any amt	ND	N/A	0.0185/0.0559	Pass	Pyrethrins	1	ND		0.00431/0.0300	Pass
Daminozide	Any amt	ND	N/A	0.0261/0.0791	Pass	Pyrethrins Cinerin I		ND	N/A		N/A
Diazinon	0.2	ND	N/A	0.00645/0.0300	Pass	Pyrethrins Cinerin II		ND	N/A		N/A
Dichlorvos	Any amt	ND	N/A	0.0223/0.0674	Pass	Pyrethrins Jasmolin I		ND	N/A		N/A
Dimethoate	Any amt	ND	N/A	0.0118/0.0356	Pass	Pyrethrins Jasmolin II		ND	N/A		N/A
Dimethomorph	20	ND	N/A	0.0137/0.0416	Pass	Pyrethrins Pyrethrin I		ND	N/A	0.0100/0.0450	N/A
Ethoprophos	Any amt	ND	N/A	0.0174/0.0528	Pass	Pyrethrins Pyrethrin II		ND	N/A	0.0100/0.0300	N/A
Etofenprox	Any amt	ND	N/A	0.00849/0.0300	Pass	Pyridaben	3	ND	N/A	0.0115/0.0350	Pass
Etoazazole	1.5	ND	N/A	0.00783/0.0300	Pass	Spinetoram	3	ND		0.00639/0.0300	Pass
Fenhexamid	10	ND	N/A	0.0129/0.0392	Pass	Spinetoram J		ND	N/A	0.00500/0.0100	N/A
Fenoxycarb	Any amt	ND	N/A	0.0144/0.0435	Pass	Spinetoram L		ND	N/A	0.00500/0.0100	N/A
Fenpyroximate	2	ND	N/A	0.00972/0.0300	Pass	Spinosad	3	ND		0.00410/0.0300	Pass
Flipronil	Any amt	ND	N/A	0.0148/0.0447	Pass	Spinosad A		ND	N/A	0.00500/0.0100	N/A
Flonicamid	2	ND	N/A	0.0268/0.0811	Pass	Spinosad D		ND	N/A	0.00500/0.0100	N/A
Fludioxonil	30	ND	N/A	0.0153/0.0464	Pass	Spiromesifen	12	ND	N/A	0.0137/0.0416	Pass
Hexythiazox	2	ND	N/A	0.0257/0.0778	Pass	Spirotetramat	13	ND	N/A	0.0134/0.0407	Pass
Imazalil	Any amt	ND	N/A	0.0156/0.0474	Pass	Spiroxamine	Any amt	ND	N/A	0.0106/0.0320	Pass
Imidacloprid	3	ND	N/A	0.0235/0.0711	Pass	Tebuconazole	2	ND	N/A	0.0144/0.0437	Pass
Kresoxim-methyl	1	ND	N/A	0.0125/0.0379	Pass	Thiacloprid	Any amt	ND	N/A	0.0139/0.0421	Pass
Malathion	5	ND	N/A	0.0117/0.0354	Pass	Thiamethoxam	4.5	ND	N/A	0.0181/0.0549	Pass
Metalaxyl	15	ND	N/A	0.0101/0.0306	Pass	Trifloxystrobin	30	ND	N/A	0.0102/0.0310	Pass

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.

Accreditations



PJLA Accredited

PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: Pesticide Analysis by LC-MS/MS / PEST-GC-INST-003, PEST-GC-PREP-001: PEST-GC-INST-003, PEST-GC-PREP-001: Pesticide Analysis by GC-MS/MS

Abamectin, Abamectin Ba, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Captan, Carbaryl, Carbofuran, Chlorantraniliprole, Chlordane, Chlorfenapyr, Chlorpyrifos, Clofentezine, Coumaphos, Cyfluthrin, Cypermethrin, Daminozide, Diazinon, Dichlorvos, Dimethoate, Dimethomorph, Ethoprophos, Etofenprox, Etoazazole, Fenhexamid, Fenoxycarb, Fenpyroximate, Flpronil, Flonicamid, Fludioxonil, Hexythiazox, Imazalil, Imidacloprid, Kresoxim-methyl, MGK-264, MGK-264 I, MGK-264 II, Malathion, Metalaxyl, Methiocarb, Methomyl, Methyl parathion, Mevinphos, Myclobutanil, Naled, Oxamyl, Paclobutrazol, Pentachloronitrobenzene, Permethrin, Permethrin cis, Permethrin trans, Phosmet, Piperonylbutoxide, Prallethrin, Propiconazole, Propoxur, Pyrethrins, Pyrethrins Cinerin I, Pyrethrins Cinerin II, Pyrethrins Jasmolin I, Pyrethrins Jasmolin II, Pyrethrins Pyrethrin I, Pyrethrins Pyrethrin II, Pyridaben, Quintozene, Spinetoram, Spinetoram J, Spinetoram L, Spinosad, Spinosad A, Spinosad D, Spiromesifen, Spirotetramat, Spiroxamine, Spiroxamine A, Spiroxamine B, Tebuconazole, Thiacloprid, Thiamethoxam, Trifloxystrobin, alpha-Chlordane, gamma-Chlordane

RS-INST-003, RS-PREP-001: RS-INST-003, RS-PREP-001: Residual Solvents by GC-MS

1,2-Dichloroethane, 2-Propanol, Acetone, Acetonitrile, Benzene, Butane, Chloroform, Dichloromethane, Ethanol, Ethyl acetate, Ethyl ether, Ethylene oxide, Heptane, Hexane, Isopropyl alcohol, Methanol, Methylene chloride, Pentane, Propane, Toluene, Total xylenes, Trichloroethene, Trichloroethylene, m-Xylene, o- and p-Xylene, o-Xylene, p- and m-Xylene, p-Xylene

MICRO-008, MICRO-INST-001, MICRO-PREP-001: MICRO-008, MICRO-INST-001, MICRO-PREP-001: PCR-Microbial (noninhalable) / MICR-002: MICR-002: Petrifilm-Aerobic / Petrifilm-Listeria / Petrifilm-E. Coli / MICR-002: Petrifilm-Coliforms / MICR-002: MICR-002: Petrifilm-Salmonella

Aerobic Bacteria, Aspergillus flavus, Aspergillus fumigatus, Aspergillus niger, Aspergillus terreus, Coliforms, Escherichia coli, Salmonella spp., Shiga toxin-producing E. coli, Total Plate Count, Yeast & Mold

FOREIGN-001: FOREIGN-001: Filth and Foreign Material

Cinders, Dirt, Foreign Matter, Imbedded Foreign Material, Insect Fragments, Insect Fragments, Hair, Mammal Excrement, Mammal Excrement, Mold, Rodent Hair, Sand, Sand, Soil, Cinders, Dirt, Soil

PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: Mycotoxin Analysis by LC-MS/MS

Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2, Aflatoxins, Ochratoxin A

HM-INST-003, HM-PREP-001: HM-INST-003, HM-PREP-001: Heavy Metals Testing by ICP-MS

Arsenic, Cadmium, Lead, Mercury



DM

Erik Paulson

June 01, 2026

HOP THE WAVE

38 Evergreen Drive
Portland, ME 04103
15349051600

Order No. 591500
Sample No. 1415011

SAMPLE INFORMATION

Description Moscow Mule
Lot Number 051826-2HTW
Category (Type) Non-Inhalable Edible (Beverage)
Received May 28, 2026

ANALYTICAL RESULTS

Analysis Chlormequat Chloride  Pass
Instrument LC-MS/MS
Method MF-CHEM-13
Analysis Date May 28, 2026 to June 01, 2026

Analyte	LOD / LOQ (ppm)	Findings (ppm)	Limit	Status
Chlormequat Chloride	0.03/0.1	ND	0.1	Pass

Reported by
Anresco, Inc.

Angela Zhu
Analyst II



June 01, 2026

NT = Not Tested
ND = None Detected
LOD = Limit of Detection
LOQ = Limit of Quantitation

If there are any questions with this report, please contact "compliance@anresco.com".