

Certificate of Analysis

Produced: Mar 07, 2025

Sample: Half & Half (Edible Liquid) • Client: Hop the Wave



Batch No.: 022625
Matrix: Edible Liquid
Density: 1.00984 g/ml
Sample ID: ICC-250306-06-001
Collected on: Mar 06, 2025
Received on: Mar 06, 2025
Sample Size: 1 Units
Received By: Melissa Jamrus
Package Size: 365.41 g
Serving Size: 365.41 g

Tests Taken

Potency

Cannabinoid Overview

Total THC:	4.97 mg/srv
Total CBD:	5.15 mg/srv
Total Cannabinoids:	10.1 mg/srv
Sum of Cannabinoids:	10.1 mg/srv

POT-INST-005: POT-INST-005: Potency • Mar 07, 2025

Analyte	Amt (mg/srv)	Amt (mg/pkg)	Amt (%)	Amt (mg/ml)	LOD/LOQ (mg/g)	Analyte	Amt (mg/srv)	Amt (mg/pkg)	Amt (%)	Amt (mg/ml)	LOD/LOQ (mg/g)
CBC			ND	ND	0.00111/0.00331	CBT			ND	ND	0.000479/0.00167
CBD	5.15	5.15	0.00141	0.0142	0.000338/0.00167	Δ ⁸ -THC			ND	ND	0.000271/0.00167
CBDA			ND	ND	0.000808/0.00242	Δ ⁹ -THC	4.97	4.97	0.00136	0.0137	0.000447/0.00167
CBDV			ND	ND	0.000268/0.00167	THCA			ND	ND	0.000615/0.00184
CBG			ND	ND	0.000382/0.00167	THCV			ND	ND	0.000207/0.00167
CBGA			ND	ND	0.000596/0.00179	Total THC**	4.97	4.97	0.00136	0.0137	
CBL			ND	ND	0.000264/0.00167	Total CBD**	5.15	5.15	0.00141	0.0142	
CBN			ND	ND	0.000382/0.00167						

** 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.
Compliance requirements for this test are taken from California CDPH Hemp regulations.



DM

Certificate of Analysis

Produced: Mar 12, 2025

Sample: Half & Half (Edible Liquid) • Client: Hop the Wave • Batch: Pass



Batch No.: 022625
Matrix: Edible Liquid
Sample ID: ICC-250306-06-004
Collected on: Mar 06, 2025
Received on: Mar 06, 2025
Sample Size: 1 Units
Received By: Melissa Jamrus
Package Size: 365.99 g
Serving Size: 365.99 g

Batch Result: Pass

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

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RS-INST-003, RS-PREP-001: RS-INST-003, RS-PREP-001: Residual Solvents by GC-MS • Mar 07, 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	0.165/0.503	Pass	Hexane	290	ND	0.0652/0.278	Pass
Acetone	5000	ND	16.9/50.7	Pass	Isopropyl alcohol	5000	ND	1.27/3.80	Pass
Acetonitrile	410	ND	0.119/0.355	Pass	Methanol	3000	ND	2.94/8.81	Pass
Benzene	1	ND	0.0208/0.0632	Pass	Methylene chloride	1	ND	0.126/0.721	Pass
Butane	5000	ND	0.960/4.79	Pass	Pentane	5000	ND	0.951/4.22	Pass
Chloroform	1	ND	0.0356/0.107	Pass	Propane	5000	ND	4.38/13.1	Pass
Ethanol	5000	220	2.58/7.75	Pass	Toluene	890	ND	0.0870/0.854	Pass
Ethyl acetate	5000	ND	0.309/2.26	Pass	Trichloroethylene	1	ND	0.0178/0.143	Pass
Ethylene oxide	1	ND	0.151/0.572	Pass	o-Xylene		ND	0.0995/0.847	Pass
Ethyl ether	5000	ND	1.17/3.51	Pass	p- and m-Xylene		ND	0.114/1.70	Pass
Heptane	5000	ND	0.679/2.83	Pass	Total xylenes	2170	ND	0.0168/0.143	Pass

HM-INST-003, HM-PREP-001: HM-INST-003, HM-PREP-001: Heavy Metals Testing by ICP-MS • Mar 07, 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	< LOQ	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



**MICRO-008, MICRO-INST-001, MICRO-PREP-001: MICRO-008, MICRO-INST-001, MICRO-PREP-001: PCR-Microbial (noninhalable)
• Mar 07, 2025**

Analyte	Amt	Pass/Fail	Analyte	Amt	Pass/Fail
Salmonella spp.	ND	Pass	Shiga toxin-producing E. coli	ND	Pass

Petrifilm-Listeria • Mar 12, 2025

Analyte	Amt	Pass/Fail
Listeria spp.	ND	Pass

MICR-002: MICR-002: Petrifilm-Aerobic • Mar 12, 2025

Analyte	Amt	Pass/Fail
Aerobic Bacteria	ND	Pass

MICR-002: MICR-002: Petrifilm-Coliforms • Mar 12, 2025

Analyte	Amt	Pass/Fail
Coliforms	ND	Pass

Petrifilm-E. Coli • Mar 12, 2025

Analyte	Amt	Pass/Fail
Escherichia coli	ND	Pass

MICR-005, MICR-006: MICR-005, MICR-006: Petrifilm-Rapid Yeast & Mold • Mar 12, 2025

Analyte	Amt	Pass/Fail
Yeast & Mold	ND	Pass

MICR-002: MICR-002: Petrifilm-Salmonella • Mar 12, 2025

Analyte	Amt	Pass/Fail
Salmonella spp.	ND	Pass

PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: Mycotoxin Analysis by LC-MS/MS • Mar 10, 2025

Analyte	Limit (µg/kg)	Amt (µg/kg)	LOD/LOQ (µg/kg)	Pass/Fail	Analyte	Limit (µg/kg)	Amt (µg/kg)	LOD/LOQ (µg/kg)	Pass/Fail
Aflatoxin B1		ND	2.60/7.88	Pass	Aflatoxin G2		ND	1.89/5.72	Pass
Aflatoxin B2		ND	2.04/6.18	Pass	Aflatoxins	20	ND		Pass
Aflatoxin G1		ND	2.97/8.99	Pass	Ochratoxin A	20	ND	3.87/11.7	Pass



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PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: Pesticide Analysis by LC-MS/MS • Mar 10, 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
Abamectin	0.3	ND	0.0500/0.100	Pass	Malathion	5	ND	0.0117/0.0354	Pass
Abamectin Ba		ND	0.0330/0.0990	N/A	Metalaxyl	15	ND	0.0101/0.0306	Pass
Acephate	5	ND	0.0164/0.0497	Pass	Methiocarb	Any amt	ND	0.0156/0.0473	Pass
Acequinocyl	4	ND	0.0194/0.0587	Pass	Methomyl	0.1	ND	0.0158/0.0479	Pass
Acetamiprid	5	ND	0.0146/0.0442	Pass	Mevinphos	Any amt	ND	0.0139/0.0423	Pass
Aldicarb	Any amt	ND	0.0216/0.0654	Pass	Myclobutanil	9	ND	0.0180/0.0546	Pass
Azoxystrobin	40	ND	0.00960/0.0291	Pass	Naled	0.5	ND	0.0170/0.0514	Pass
Bifenazate	5	ND	0.0115/0.0349	Pass	Oxamyl	0.2	ND	0.0153/0.0465	Pass
Bifenthrin	0.5	ND	0.0130/0.0395	Pass	Paclobutrazol	Any amt	ND	0.0132/0.0400	Pass
Boscalid	10	ND	0.0197/0.0596	Pass	Permethrin	20	ND	0.00831/0.0300	Pass
Carbaryl	0.5	ND	0.0160/0.0486	Pass	Permethrin cis		ND	0.0200/0.0300	N/A
Carbofuran	Any amt	ND	0.00902/0.0300	Pass	Permethrin trans		ND	0.0200/0.0300	N/A
Chlorantraniliprole	40	ND	0.0209/0.0632	Pass	Phosmet	0.2	ND	0.0125/0.0377	Pass
Chlorpyrifos	Any amt	ND	0.0176/0.0534	Pass	Piperonylbutoxide	8	ND	0.00759/0.0300	Pass
Clofentazine	0.5	ND	0.0129/0.0389	Pass	Prallethrin	0.4	ND	0.0226/0.0685	Pass
Coumaphos	Any amt	ND	0.0185/0.0559	Pass	Propiconazole	20	ND	0.0195/0.0590	Pass
Daminozide	Any amt	ND	0.0261/0.0791	Pass	Propoxur	Any amt	ND	0.0155/0.0471	Pass
Diazinon	0.2	ND	0.00645/0.0300	Pass	Pyrethrins	1	ND	0.00431/0.0300	Pass
Dichlorvos	Any amt	ND	0.0223/0.0674	Pass	Pyrethrins Pyrethrin I		ND	0.0100/0.0450	N/A
Dimethoate	Any amt	ND	0.0118/0.0356	Pass	Pyrethrins Pyrethrin II		ND	0.0100/0.0300	N/A
Dimethomorph	20	ND	0.0137/0.0416	Pass	Pyridaben	3	ND	0.0115/0.0350	Pass
Ethoprophos	Any amt	ND	0.0174/0.0528	Pass	Spinetoram	3	ND	0.00639/0.0300	Pass
Etofenprox	Any amt	ND	0.00849/0.0300	Pass	Spinetoram J		ND	0.00500/0.0100	N/A
Etoazole	1.5	ND	0.00783/0.0300	Pass	Spinetoram L		ND	0.00500/0.0100	N/A
Fenhexamid	10	ND	0.0129/0.0392	Pass	Spinosad	3	ND	0.00410/0.0300	Pass
Fenoxycarb	Any amt	ND	0.0144/0.0435	Pass	Spinosad A		ND	0.00500/0.0100	N/A
Fenpyroximate	2	ND	0.00972/0.0300	Pass	Spinosad D		ND	0.00500/0.0100	N/A
Flipronil	Any amt	ND	0.0148/0.0447	Pass	Spiromesifen	12	ND	0.0137/0.0416	Pass
Flonicamid	2	ND	0.0268/0.0811	Pass	Spirotetramat	13	ND	0.0134/0.0407	Pass
Fludioxonil	30	ND	0.0153/0.0464	Pass	Spiroxamine	Any amt	ND	0.0106/0.0320	Pass
Hexythiazox	2	ND	0.0257/0.0778	Pass	Tebuconazole	2	ND	0.0144/0.0437	Pass
Imazalil	Any amt	ND	0.0156/0.0474	Pass	Thiacloprid	Any amt	ND	0.0139/0.0421	Pass
Imidacloprid	3	ND	0.0235/0.0711	Pass	Thiamethoxam	4.5	ND	0.0181/0.0549	Pass
Kresoxim-methyl	1	ND	0.0125/0.0379	Pass	Trifloxystrobin	30	ND	0.0102/0.0310	Pass

PEST-GC-INST-003, PEST-GC-PREP-001: PEST-GC-INST-003, PEST-GC-PREP-001: Pesticide Analysis by GC-MS/MS • Mar 10, 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
Captan	5	ND	0.120/0.358	Pass	Cypermethrin	1	ND	0.0145/0.0435	Pass
Chlordane	Any amt	ND	0.0249/0.0747	Pass	Methyl parathion	Any amt	ND	0.00811/0.0243	Pass
Chlorfenapyr	Any amt	ND	0.0251/0.0753	Pass	Pentachloronitrobenzene	0.2	ND	0.0182/0.0545	Pass
Cyfluthrin	1	ND	0.0186/0.0558	Pass					



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