

CERTIFICATE OF ANALYSIS

DATE ISSUED 02/28/2021

SAMPLE NAME: A00000035

Infused, Non-Inhalable

CULTIVATOR / MANUFACTURER

Business Name: License Number:

Address:

DISTRIBUTOR / TESTED FOR

Business Name: New York Hemp Oil

License Number:

Address:

SAMPLE DETAIL

Batch Number:

Sample ID: 210224N038

Date Collected: 02/24/2021

Date Received: 02/25/2021

Batch Size:

Sample Size: 1.0 units

Unit Mass: 30 milliliters per Unit Serving Size: 1 milliliters per Serving

Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 47.490 mg/unit

Total CBD: 1349.970 mg/unit

Total Cannabinoids: 1462.830 mg/unit

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

Total THC = Δ 9THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877))

Sum of Cannabinoids = Δ9THC + THCa + CBD + CBDa + CBG + CBGa +

Sum of Cannabinoids: 1462.830 mg/unit THCV + THCVa + CBC + CBCa + CBDV + CBDVa + \Delta STHC + CBL + CBN Total Cannabinoids = $(\Delta 9THC + 0.877*THCa) + (CBD + 0.877*CBDa) +$ (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) +

(CBDV+0.877°CBDVa) + ∆8THC + CBL + CBN

Moisture: NT

Density: 0.9509 g/mL

Viscosity: NT

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 0.1054%

β Caryophyllene 0.445 mg/g

α Bisabolol 0.193 mg/g

a Humulene 0.171 mg/g

SAFETY ANALYSIS - SUMMARY

Δ9THC per Unit: <a>⊗ PASS

Pesticides: PASS

Heavy Metals: @ PASS

Microbial Impurities (PCR): PASS

Microbial Impurities (Plating): NT

Foreign Material: NT Water Activity: NT

Residual Solvents: PASS

Mycotoxins: NT

Vitamin E Acetate: NT

For quality assurance purposes. Not a Pre-Harvest Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: California Code of Regulations Title 16 Effect Date January 16, 2019. Authority: Section 26013, Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)

Date: 02/28/2021

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Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: 47,490 mg/unit Total THC (Δ9THC+0.877*THCa)

TOTAL CBD: 1349.970 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 1462.830 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ8THC + CBL + CBN

TOTAL CBG: 19.710 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 34.050 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 10.320 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 02/28/2021

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	0.004/0.011	±2.1555	44.999	4.7323
Д9ТНС	0.002/0.014	±0.1116	1.583	0.1665
CBC	0.003/0.010	±0.0470	1.135	0.1194
CBG	0.002 / 0.006	±0.0409	0.657	0.0691
CBDV	0.002/0.012	±0.0180	0.344	0.0362
CBL	0.003/0.010	±0.0011	0.023	0.0024
CBN	0.001/0.007	±0.0007	0.020	0.0021
Д8ТНС	0.01 / 0.02	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
THCV	0.002/0.012	N/A	ND	ND
THCVa	0.002/0.019	N/A	ND	ND
CBDa	0.001/0.026	N/A	ND	ND
CBDVa	0.001/0.018	N/A	ND	ND
CBGa	0.002/0.007	N/A	ND	ND
CBCa	0.001/0.015	N/A	ND	ND
SUM OF CANNA	BINOIDS		48.761 mg/mL	5.1279%

Unit Mass: 30 milliliters per Unit / Serving Size: 1 milliliters per Serving

1120 per-package limit	47.490 mg/unit	PASS	
	1.583 mg/serving		
	47.490 mg/unit		
	1.583 mg/serving		
	1349.970 mg/unit		
	44.999 mg/serving		
	1349.970 mg/unit		
	44.999 mg/serving		
	1462.830 mg/unit		
	48.761 mg/serving		
	1462.830 mg/unit		
	48.761 mg/serving		
	1120 per-package limit	1.583 mg/serving 47.490 mg/unit 1.583 mg/serving 1349.970 mg/unit 44.999 mg/serving 1349.970 mg/unit 44.999 mg/serving 1462.830 mg/unit 48.761 mg/serving 1462.830 mg/unit	

MOISTURE TEST RESULT

DENSITY TEST RESULT

VISCOSITY TEST RESULT

Not Tested

0.9509 g/mL

Not Tested

Tested 02/28/2021

Method: QSP 7870 - Sample Preparation





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Terpenoid Analysis

Terpene analysis utilizing gas chromatographyflame ionization detection (GC-FID). Terpenes are the aromatic compounds that endow cannabis with their unique scent and effect. Following are the primary terpenes detected.

Method: QSP 1192 - Analysis of Terpenoids by GC-FID



β Caryophyllene

A sesquiterpene with a fragrance that can be described as spicy, woody, dry, dusty and mildly sweet. It was one of the first organic compounds to fully synthesized in a laboratory and plays a role in the endocannabinoid system as it is a functional CB₂ receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.



α Bisabolol

A sesquiterpene alcohol with a fragrance that can be described as floral, peppery, sweet and clean. Found in chamomile, figwort, yarrow, skullcaps, lavender, ironwort, germander...etc.



α Humulene

Also known as α -caryophyllene, it is an isomer of the sesquiterpene β -Caryophyllene which frequently occurs in nature with many aromatic plants across the globe. It has a fragrance that can be described as earthy or musky with spicy undertones. Found in hops, forskohlii, skullcaps, basil, nutmeg, cloves, sage, cotton, tamarind, black pepper, guava, Scotch pine...etc.

TERPENOID TEST RESULTS - 02/28/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)	
β Caryophyllene	0.004/0.012	±0.0158	0.445	0.0445	
α Bisabolol	0.008 / 0.026	±0.0103	0.193	0.0193	
α Humulene	0.009 / 0.029	±0.0055	0.171	0.0171	
Guaiol	0.009 / 0.030	±0.0043	0.091	0.0091	
Caryophyllene Oxide	0.010 / 0.033	±0.0019	0.041	0.0041	
Linalool	0.009 / 0.032	±0.0015	0.039	0.0039	
Terpinolene	0.008 / 0.026	±0.0008	0.037	0.0037	
Nerolidol	0.009 / 0.028	±0.0023	0.037	0.0037	
Myrcene	0.008 / 0.025	N/A	<loq< td=""><td><l0q< td=""></l0q<></td></loq<>	<l0q< td=""></l0q<>	
Fenchol	0.010 / 0.034	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>	
Terpineol	0.016 / 0.055	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>	
trans-β-Farnesene	0.008 / 0.025	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>	
Valencene	0.009/0.030	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>	
α Pinene	0.005/0.017	N/A	ND	ND	
Camphene	0.005 / 0.015	N/A	ND	ND	
Sabinene	0.004/0.014	N/A	ND	ND	
βPinene	0.004/0.014	N/A	ND	ND	
α Phellandrene	0.006 / 0.020	N/A	ND	ND	
3 Carene	0.005 / 0.018	N/A	ND	ND	
α Terpinene	0.005 / 0.017	N/A	ND	ND	
p-Cymene	0.005/0.016	N/A	ND	ND	
Limonene	0.005 / 0.016	N/A	ND	ND	
Eucalyptol	0.006/0.018	N/A	ND	ND	
Ocimene	0.011/0.038	N/A	ND	ND	
γTerpinene	0.006/0.018	N/A	ND	ND	
Sabinene Hydrate	0.006 / 0.022	N/A	ND	ND	
Fenchone	0.009/0.028	N/A	ND	ND	
(-)-Isopulegol	0.005 / 0.016	N/A	ND	ND	
Camphor	0.006 / 0.019	N/A	ND	ND	
Isoborneol	0.004/0.012	N/A	ND ·	ND	
Borneol	0.005/0.016	N/A	ND	ND	
Menthol	0.008 / 0.025	N/A	ND	ND	
Nerol	0.003 / 0.011	N/A	ND	ND	
Citronellol	0.003 / 0.010	N/A	ND	ND	
R-(+)-Pulegone	0.003/0.011	N/A	ND	ND	
Geraniol	0.002/0.007	N/A	ND	ND	
Geranyl Acetate	0.004/0.014	N/A	ND	ND	
α Cedrene	0.005 / 0.016	N/A	ND	ND	
Cedrol	0.008 / 0.027	N/A	ND	ND	
TOTAL TERPENOIDS			1.054 mg/g	0.1054%	





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Pesticide Analysis

CATEGORY 1 AND 2 PESTICIDES

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS). *GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

CATEGORY 1 PESTICIDE TEST RESULTS - 02/27/2021 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Aldicarb	0.03 / 0.08	≥LOD	N/A	ND	PASS
Carbofuran	0.02/0.05	≥ LOD	N/A	ND	PASS
Chlordane*	0.03/0.08	≥LOD	N/A	ND	PASS
Chlorfenapyr*	0.03/0.10	≥LOD	N/A	ND	PASS
Chlorpyrifos	0.02 / 0.06	≥LOD	N/A	ND	PASS
Coumaphos	0.02 / 0.07	≥LOD	N/A	ND	PASS
Daminozide	0.02/0.07	≥LOD	N/A	ND	PASS
DDVP (Dichlorvos)	0.03 / 0.09	≥LOD	N/A	ND	PASS
Dimethoate	0.03 / 0.08	≥LOD	N/A	ND	PASS
Ethoprop(hos)	0.03 / 0.10	≥LOD	N/A	ND	PASS
Etofenprox	0.02/0.06	≥LOD	N/A	ND	PASS
Fenoxycarb	0.03 / 0.08	≥LOD	N/A	ND	PASS
Fipronil	0.03 / 0.08	≥ LOD	N/A	ND	PASS
lmazalil	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Methiocarb	0.02 / 0.07	≥LOD	N/A	ND	PASS
Methyl parathion	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Mevinphos	0.03/0.09	≥LOD	N/A	ND	PASS
Paclobutrazol	0.02 / 0.05	≥LOD	N/A	ND	PASS
Propoxur	0.03 / 0.09	≥LOD	N/A	ND	PASS
Spiroxamine	0.03 / 0.08	≥LOD	N/A	ND	PASS
Thiacloprid	0.03 / 0.10	≥ LOD	N/A	ND	PASS
ATEGORY 2 PESTICID	E TEST RESULT:	5 - 02/27/2021	⊘ PASS		
Abamectin	0.03 / 0.10	0.3	N/A	ND	PASS

Abamectin	0.03 / 0.10	0.3	N/A	ND	PASS	
Acephate	0.02 / 0.07	5	N/A	ND	PASS	
Acequinocyl	0.02/0.07	4	N/A	ND	PASS	
Acetamiprid	0.02 / 0.05	5	N/A	ND	PASS	•
Azoxystrobin	0.02 / 0.07	40	N/A	ND	PASS	
Bifenazate	0.01/0.04	5	N/A	ND	PASS	
Bifenthrin	0.02 / 0.05	0.5	N/A	ND	PASS	
Boscalid	0.03/0.09	10	N/A	ND	PASS	•
Captan	0.19/0.57	5	N/A	ND	PASS	
Carbaryl	0.02/0.06	0.5	N/A	ND	PASS	
Chlorantraniliprole	0.04/0.12	40	N/A	ND	PASS	
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Microbial Impurities Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbial impurities.

Method: QSP 1221 - Analysis of Microbial Impurities

Analysis conducted by 3M[™] Petrifilm[™] and plate counts of microbial impurities.

Method: QSP 6794 - Plating with 3M™ Petrifilm™

MICROBIAL IMPURITIES TEST RESULTS (PCR) - 02/27/2021 PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing Escherichia coli	Detect	ND	PASS
Salmonella spp.	Detect	ND	PASS
Aspergillus fumigatus	Detect	ND	PASS
Aspergillus flavus	Detect	ND	PASS
Aspergillus niger	Detect	ND	PASS
Aspergillus terreus	Detect	ND	PASS

MICROBIAL IMPURITIES TEST RESULTS (PLATING)

COMPOUND	RESULT (cfu/g)
Aerobic Plate Count	MT
Total Yeast and Mold	Nf





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Residual Solvents Analysis

CATEGORY 1 AND 2 RESIDUAL SOLVENTS Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

CATEGORY 1 RESIDUAL SOLVENTS TEST RESULTS - 02/27/2021 @ PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
1,2-Dichloroethane	0.05 / 0.1	1	N/A	ND	PASS
Benzene	0.03/0.09	1	N/A	ND	PASS
Chloroform	0.1/0.2	1	N/A	ND	PASS
Ethylene Oxide	0.3 / 0.8	1	N/A	ND	PASS
Methylene chloride	0.3 / 0.9	1	N/A	ND	PASS
Trichloroethylene	0.1/0.3	1	N/A	ND	PASS

CATEGORY 2 RESIDUAL SOLVENTS TEST RESULTS - 02/27/2021 PASS

20/50	5000	N/A	ND	PASS
2/7	410	N/A	ND	PASS
10/50	5000	N/A	ND	PASS
20/50	5000	N/A	ND	PASS
20/60	5000	N/A	ND	PASS
20/50	5000	N/A	ND	PASS
20/60	5000	N/A	ND	PASS
2/5	290	N/A	ND	PASS
10/40	5000	N/A	<loq< td=""><td>PASS</td></loq<>	PASS
50/200	3000	N/A	ND	PASS
20/50	5000	N/A	ND	PASS
10/20	5000	N/A	ND	PASS
7/21	890	N/A	ND	PASS
50/160	2170	N/A	ND	PASS
	2/7 10/50 20/50 20/60 20/50 20/60 2/5 10/40 50/200 20/50 10/20 7/21	2/7 410 10/50 5000 20/50 5000 20/60 5000 20/60 5000 20/60 5000 2/5 290 10/40 5000 50/200 3000 20/50 5000 10/20 5000 7/21 890	2/7 410 N/A 10/50 5000 N/A 20/50 5000 N/A 20/60 5000 N/A 20/50 5000 N/A 20/60 5000 N/A 2/5 290 N/A 10/40 5000 N/A 50/200 3000 N/A 20/50 5000 N/A 10/20 5000 N/A 7/21 890 N/A	2/7 410 N/A ND 10/50 5000 N/A ND 20/50 5000 N/A ND 20/60 5000 N/A ND 20/50 5000 N/A ND 20/60 5000 N/A ND 2/5 290 N/A ND 10/40 5000 N/A <loq< td=""> 50/200 3000 N/A ND 20/50 5000 N/A ND 10/20 5000 N/A ND 7/21 890 N/A ND</loq<>



Heavy Metals Analysis

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP 1160 · Analysis of Heavy Metals by ICP-MS

HEAVY METALS TEST RESULTS - 02/26/2021 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Cadmium	0.02 / 0.05	0.5	N/A	ND	PASS
Lead	0.04 / 0.1	0.5	N/A	ND	PASS
Arsenic	0.02 / 0.1	1.5	N/A	ND	PASS
Mercury	0.002 / 0.01	3	N/A	ND	PASS







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Pesticide Analysis Continued

CATEGORY 1 AND 2 PESTICIDES

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS). *GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

CATEGORY 2 PESTICIDE TEST RESULTS - 02/27/2021 continued @ PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Clofentezine	0.03/0.09	0.5	N/A	ND	PASS
Cyfluthrin	0.12/0.38	1	N/A	ND	PASS
Cypermethrin	0.11/0.32	1	N/A	ND	PASS
Diazinon	0.02/0.05	0.2	N/A	ND	PASS
Dimethomorph	0.03/0.09	20	N/A	ND	PASS
Etoxazole	0.02 / 0.06	1.5	N/A	ND	PASS
Fenhexamid	0.03/0.09	10	N/A	ND	PASS
Fenpyroximate	0.02/0.06	2	N/A	ND	PASS
Flonicamid	0.03/0.10	2	N/A	ND	PASS
Fludioxonil	0.03/0.10	30	N/A	ND	PASS
Hexythiazox	0.02/0.07	2	N/A	ND	PASS
Imidacloprid	0.04/0.11	3	N/A	ND	PASS
Kresoxim-methyl	0.02/0.07	1	N/A	ND	PASS
Malathion	0.03/0.09	5	N/A	ND	PASS
Metalaxyl	0.02/0.07	15	N/A	ND	PASS
Methomyl	0.03/0.10	0.1	N/A	ND	PASS
Myclobutanil	0.03/0.09	9	N/A	ND	PASS
Naled	0.02/0.07	0.5	N/A	ND	PASS
Oxamyl	0.04/0.11	0.2	N/A	ND	PASS
Pentachloronitrobenzene*	0.03/0.09	0.2	N/A	ND	PASS
Permethrin	0.04/0.12	20	N/A	ND	PASS
Phosmet	0.03/0.10	0.2	N/A	ND	PASS
Piperonylbutoxide	0.02/0.07	8	N/A	ND	PASS
Prallethrin	0.03/0.08	0.4	N/A	ND	PASS
Propiconazole	0.02/0.07	20	N/A	ND	PASS
Pyrethrins	0.04/0.12	1	N/A	ND	PASS
Pyridaben	0.02/0.07	3	N/A	ND	PASS
Spinetoram	0.02/0.07	3	N/A	ND	PASS
Spinosad	0.02/0.07	3	N/A	ND	PASS
Spiromesifen	0.02/0.05	12	N/A	ND	PASS
Spirotetramat	0.02/0.06	13	N/A	ND	PASS
Tebuconazole	0.02/0.07	2	N/A	ND	PASS
Thiamethoxam	0.03/0.10	4.5	N/A	ND	PASS
Trifloxystrobin	0.03/0.08	30	N/A	ND	PASS

