

Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

DATE ISSUED 10/10/2022

SAMPLE NAME: A00000160

Infused, Hemp Infused

CULTIVATOR / MANUFACTURER

Business Name: License Number: Address:

SAMPLE DETAIL

Batch Number: Sample ID: 221005M003

DISTRIBUTOR / TESTED FOR

Business Name: New York Hemp Oil License Number: Address:

Date Collected: 10/05/2022 Date Received: 10/05/2022 Batch Size: Sample Size: 1.0 units Unit Mass: 30 milliliters per Unit Serving Size:



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 9.540 mg/unit Total CBD: 293.580 mg/unit Sum of Cannabinoids: 608.190 mg/uni Total Cannabinoids: 608.190 mg/unit	Total THC/CBD is calculated using the followin account the loss of a carboxyl group during the Total THC = Δ^9 -THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877)) Sum of Cannabinoids = Δ^9 -THC + THCa + CBD THCV + THCVa + CBC + CBCa + CBDV + CBD Total Cannabinoids = (Δ^9 -THC+0.877*THCa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBDV+0.877*CBDVa) + Δ^8 -THC + CBL + CBN	Densities the decarboxylation step: D + CBDa + CBG + CBGa + Va + Δ^{0} -THC + CBL + CBN (CBD+0.877*CBDa) + • (CBC+0.877*CBCa) +	ty: 0.9475 g/mL
TERPENOID ANALYSIS - SUMMARY			39 TESTED, TOP 3 HIGHLIGHTED
Total Terpenoids: 0.0291%	β-Caryophyllene 0.118 mg/g	α-Bisabolol 0.080 mg/g	α-Humule ne 0.050 mg/g
SAFETY ANALYSIS - SUMMARY			
Pesticides: PASS Microbiology (PCR): PASS	Residual Solvents: OPAS Microbiology (Plating): O	-	etals: @PASS

For quality assurance purposes. Not a Regulatory 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: Action Limits used in this report are a compilation of guidance from state regulatory agencies in all states except Alaska. Action limits for required tests are the lower of any conflicting state regulations.

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), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

-10/10/2022

Approv ed by: Josh Wurzer, President 10/10/2022

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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: 9.540 mg/unit

Total THC (Δ^9 -THC+0.877*THCa)

TOTAL CBD: 293.580 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 608.190 mg/unit

 $\begin{array}{l} \mbox{Total Cannabinoids} (\mbox{Total THC}) + (\mbox{Total CBD}) + \\ (\mbox{Total CBG}) + (\mbox{Total THCV}) + (\mbox{Total CBC}) + \\ (\mbox{Total CBDV}) + \Delta^8 \mbox{-THC} + \mbox{CBL} + \mbox{CBN} \end{array}$

TOTAL CBG: 5.250 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 7.320 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 1.620 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 10/07/2022

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	0.004/0.011	±0.3650	9.786	1.0328
CBN	0.001/0.007	±0.2783	9.696	1.0233
∆ ⁹ -THC	0.002/0.014	±0.0175	0.318	0.0336
CBC	0.003/0.010	±0.0079	0.244	0.0258
CBG	0.002/0.006	±0.0085	0.175	0.0185
CBDV	0.002/0.012	±0.0022	0.054	0.0057
∆ ⁸ -THC	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
CBL	0.003/0.010	N/A	ND	ND
CBCa	0.001/0.015	N/A	ND	ND
SUM OF CANNA	BINOIDS		20.273 mg/mL	2.1396%

Unit Mass: 30 milliliters per Unit

Δ^{9} -THC per Unit	9.540 mg/unit
Total THC per Unit	9.540 mg/unit
CBD per Unit	293.580 mg/unit
Total CBD per Unit	293.580 mg/unit
Sum of Cannabinoids per Unit	608.190 mg/unit
Total Cannabinoids per Unit	608.190 mg/unit

DENSITY TEST RESULT

0.9475 g/mL

Tested 10/07/2022

Method: QSP 7870 - Sample Preparation



Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

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🔊 Terpenoid Analysis

Terpene analysis utilizing gas chromatographyflame ionization detection (GC-FID).

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.

3 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 - 10/07/2022

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
β -Caryophyllene	0.004/0.012	±0.0033	0.118	0.0118
α -Bisabolol	0.008/0.026	±0.0033	0.080	0.0080
α-Humulene	0.009/0.029	±0.0012	0.050	0.0050
Guaiol	0.009/0.030	±0.0016	0.043	0.0043
Linalool	0.009/0.032	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
$trans-\beta$ -Farnesene	0.008 / 0.025	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Caryophyllene Oxide	0.010/0.033	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
β-Pinene	0.004/0.014	N/A	ND	ND
Myrcene	0.008 / 0.025	N/A	ND	ND
α -Phellandrene	0.006 / 0.020	N/A	ND	ND
Δ^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
β-Ocimene	0.006 / 0.020	N/A	ND	ND
γ-Terpinene	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
Terpinolene	0.008/0.026	N/A	ND	ND
Fenchol	0.010/0.034	N/A	ND	ND
lsopulegol	0.005/0.016	N/A	ND	ND
Camphor	0.00 <mark>6/0.019</mark>	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
Terpineol	0.009/0.031	N/A	ND	ND
Nerol	0.003/0.011	N/A	ND	ND
Citronellol	0.003/0.010	N/A	ND	ND
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
Valencene	0.009/0.030	N/A	ND	ND
Nerolidol	0.006/0.019	N/A	ND	ND
Cedrol	0.008/0.027	N/A	ND	ND
TOTAL TERPENOIDS			0.291 mg/g	0.0291%



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

Pesticide Analysis

*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

Exclusions¹ see last page

Residual Solvents Analysis

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

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

Exclusions² see last page

PESTICIDE TEST RESULTS - 10/07/2022 OPASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Abamectin	0.03/0.10	0.3	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
Chlorpyrifos	0.02/0.06	≥LOD	N/A	ND	PASS
Cypermethrin	0.11/0.32	1	N/A	ND	PASS
Etoxazole	0.02/0.06	1.5	N/A	ND	PASS
Hexythiazox	0.02/0.07	2	N/A	ND	PASS
Imidacloprid	0.04/0.11	3	N/A	ND	PASS
Malathion	0.03/0.09	5	N/A	ND	PASS
Myclobutanil	0.03/0.09	9	N/A	ND	PASS
Permethrin	0.04/0.12	20	N/A	ND	PASS
Piperonyl Butoxide	0.02/0.07	8	N/A	ND	PASS
Propiconazole	0.02/0.07	20	N/A	ND	PASS
Spiromesifen	0.02/0.05	12	N/A	ND	PASS
Tebuconazole	0.02/0.07	2	N/A	ND	PASS
Trifloxystrobin	0.03/0.08	30	N/A	ND	PASS

RESIDUAL SOLVENTS TEST RESULTS - 10/07/2022 O PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Propane	10/2 <mark>0</mark>	5000	N/A	ND	PASS
n-Butane	10 <mark>/50</mark>	5000	N/A	ND	PASS
n-Pentane	20/50	5000	N/A	ND	PASS
n-Hexane	2/5	290	N/A	ND	PASS
n-Heptane	20/60	5000	N/A	ND	PASS
Benzene	0.03/0.09	1	N/A	ND	PASS
Toluene	7/21	890	N/A	ND	PASS
Total Xylenes	50/160	2170	N/A	ND	PASS
Methanol	50/200	3000	N/A	ND	PASS
Ethanol	20/50	5000	N/A	ND	PASS
2-Propanol (Isopropyl Alcohol)	10/40	5000	N/A	ND	PASS
Acetone	20/50	5000	N/A	ND	PASS
Ethyl Ether	20/50	5000	N/A	ND	PASS
Ethylene Oxide	0.3/0.8	1	N/A	ND	PASS
Ethyl Acetate	20/60	5000	N/A	ND	PASS
Chloroform	0.1/0.2	1	N/A	ND	PASS
Dichloromethane (Methylene Chloride)	0.3/0.9	1	N/A	ND	PASS

Continued on next page

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Residual Solvents Analysis

RESIDUAL SOLVENTS TEST RESULTS - 10/07/2022 continued OPASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Trichloroethylene	0.1/0.3	1	N/A	ND	PASS
1,2-Dichloroethane	0.05/0.1	1	N/A	ND	PASS
Acetonitrile	2/7	410	N/A	ND	PASS

Heavy Metals Analysis

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

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

Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: QSP 1221 - Analysis of Microbiological Contaminants

Analysis conducted by $3M^{\text{TM}}$ PetrifilmTM and plate counts of microbiological contaminants.

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

HEAVY METALS TEST RESULTS - 10/07/2022 O PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Arsenic	0.02/0.1	0.42	N/A	ND	PASS
Cadmium	0.02/0.05	0.27	N/A	ND	PASS
Lead	0.04/0.1	0.5	N/A	ND	PASS
Mercury	0.002/0.01	0.4	N/A	ND	PASS

MICROBIOLOGY TEST RESULTS (PCR) - 10/10/2022 O PASS

COMPOUND	ACTION LIMIT (cfu/g)	RESULT (cfu/g)	RESULT
Shiga toxin-producing Escherichia coli	Not Detected in 1g	ND	PASS
Salmonella spp.	Not Detected in 1g	ND	PASS
Bile-Tolerant Gram-Negative Bacteria	100	ND	PASS
Staphylococcus aureus	Not Detected in 1g	ND	PASS

MICROBIOLOGY TEST RESULTS (PLATING) - 10/10/2022 O PASS

COMPOUND	ACTION LIMIT (cfu/g)	RESULT (cfu/g)	RESULT
Total Aerobic Bacteria	100	ND	PASS
Total Yeast and Mold	10	ND	PASS

NOTES

 Exclusions: Sample Certification: California Code of Regulation Title 4 Division 19
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