

Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 08/23/2023

SAMPLE NAME: A00000198

Infused, Hemp

CULTIVATOR / MANUFACTURER

Business Name: License Number:

Address:

SAMPLE DETAIL

Batch Number:

Sample ID: 230818M063

DISTRIBUTOR / TESTED FOR

Business Name: New York Hemp Oil

License Number:

Address:

Date Collected: 08/18/2023 Date Received: 08/20/2023

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: 19.050 mg/unit

Total CBD: 647.190 mg/unit

Total Cannabinoids: 699.690 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^9 -THC + (THCa (0.877))

Total CBD = CBD + (CBDa (0.877))

Sum of Cannabinoids = Δ^9 -THC + THCa + CBD + CBDa + CBG + CBGa + Sum of Cannabinoids: 699.690 mg/unit THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ^8 -THC + CBL + CBN Total Cannabinoids = $(\Delta^9$ -THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) +

(CBDV+0.877*CBDVa) + Δ^8 -THC + CBL + CBN

Density: 0.9482 g/mL

SAFETY ANALYSIS - SUMMARY

Pesticides: ND

Heavy Metals: ND

Mycotoxins: ND

Microbiology (PCR): ND

Residual Solvents: ND

Microbiology (Plating): ND

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

Sample Certification: California Code of Regulations Title 4 Division 19. Department of Cannabis Control 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), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

: Randi Vuong Laboratory Technician Date: 08/23/2023

Approved by: Josh Wurzer Title: Chief Compliance Officer Date: 08/23/2023



A00000198 | DATE ISSUED 08/23/2023





Cannabinoid Analysis

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

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

TOTAL THC: 19.050 mg/unit

Total THC (Δ⁹-THC+0.877*THCa)

TOTAL CBD: 647.190 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 699.690 mg/unit

$$\label{eq:total_constraint} \begin{split} & Total \ Cannabinoids \ (Total \ THC) + (Total \ CBD) + (Total \ CBC) + (Total \ CBC) + (Total \ CBDV) + \Delta^8 - THC + CBL + CBN \end{split}$$

TOTAL CBG: 13.110 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 15.600 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 3.000 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 08/22/2023

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	0.004 / 0.011	±0.8047	21.573	2.2752
Δ ⁹ -THC	0.002 / 0.014	±0.0349	0.635	0.0670
СВС	0.003 / 0.010	±0.0167	0.520	0.0548
CBG	0.002 / 0.006	±0.0212	0.437	0.0461
CBDV	0.002 / 0.012	±0.0041	0.100	0.0105
CBN	0.001 / 0.007	±0.0009	0.033	0.0035
CBL	0.003 / 0.010	±0.0009	0.025	0.0026
Δ^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
CBCa	0.001/0.015	N/A	ND	ND
SUM OF CAN	SUM OF CANNABINOIDS			2.4597%

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

Δ^9 -THC per Unit	19.050 mg/unit	
Δ ⁹ -THC per Serving	0.635 mg/serving	
Total THC per Unit	19.050 mg/unit	
Total THC per Serving	0.635 mg/serving	
CBD per Unit	647.190 mg/unit	
CBD per Serving	21.573 mg/serving	
Total CBD per Unit	647.190 mg/unit	
Total CBD per Serving	21.573 mg/serving	
Sum of Cannabinoids per Unit	699.690 mg/unit	
Sum of Cannabinoids per Serving	23.323 mg/serving	
Total Cannabinoids per Unit	699.690 mg/unit	
Total Cannabinoids per Serving	23.323 mg/serving	

DENSITY TEST RESULT

0.9482 g/mL

Tested 08/22/2023

Method: QSP 7870 - Sample Preparation



A00000198 | DATE ISSUED 08/23/2023





Pesticide Analysis

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

PESTICIDE TEST RESULTS - 08/22/2023 ND

Acephate 0.02/0.07 N/A Acequinocyl 0.02/0.07 N/A Acetamiprid 0.02/0.05 N/A Aldicarb 0.03/0.08 N/A Azoxystrobin 0.02/0.07 N/A	ND
Acequinocyl 0.02 / 0.07 N/A Acetamiprid 0.02 / 0.05 N/A Aldicarb 0.03 / 0.08 N/A Azoxystrobin 0.02 / 0.07 N/A	ND ND ND ND ND ND ND
Acetamiprid 0.02 / 0.05 N/A Aldicarb 0.03 / 0.08 N/A Azoxystrobin 0.02 / 0.07 N/A	ND ND ND ND ND
Aldicarb 0.03 / 0.08 N/A Azoxystrobin 0.02 / 0.07 N/A	ND ND ND
Azoxystrobin 0.02 / 0.07	ND ND ND
	ND ND
Rifenazato 0.01 / 0.04 N/A	ND
0.017 0.04 IVA	
Bifenthrin 0.02 / 0.05 N/A	ND
Boscalid 0.03 / 0.09 N/A	
Captan 0.19 / 0.57 <i>N/A</i>	ND
Carbaryl 0.02 / 0.06 N/A	ND
Carbofuran 0.02 / 0.05 N/A	ND
Chlorantraniliprole 0.04 / 0.12 N/A	ND
Chlordane* 0.03 / 0.08	ND
Chlorfenapyr* 0.03 / 0.10 N/A	ND
Chlorpyrifos 0.02 / 0.06 <i>N/A</i>	ND
Clofentezine 0.03 / 0.09	ND
Coumaphos 0.02 / 0.07 <i>N/A</i>	ND
Cyfluthrin 0.12 / 0.38 <i>N/A</i>	ND
Cypermethrin 0.11 / 0.32 N/A	ND
Daminozide 0.02 / 0.07 N/A	ND
Diazinon 0.02 / 0.05	ND
Dichlorvos (DDVP) 0.03 / 0.09	ND
Dimethoate 0.03 / 0.08	ND
Dimethomorph 0.03 / 0.09 <i>N/A</i>	ND
Ethoprophos 0.03 / 0.10	ND
Etofenprox 0.02 / 0.06	ND
Etoxazole 0.02 / 0.06	ND
Fenhexamid 0.03 / 0.09 <i>N/A</i>	ND
Fenoxycarb 0.03 / 0.08 <i>N/A</i>	ND
Fenpyroximate 0.02 / 0.06 N/A	ND
Fipronil 0.03 / 0.08 <i>N/A</i>	ND
Flonicamid 0.03 / 0.10	ND
Fludioxonil 0.03 / 0.10	ND
Hexythiazox 0.02 / 0.07 N/A	ND
Imazalil 0.02 / 0.06 N/A	ND
Imidacloprid 0.04 / 0.11 N/A	ND
Kresoxim-methyl 0.02 / 0.07 N/A	ND
Malathion 0.03 / 0.09 <i>N/A</i>	ND
Metalaxyl 0.02 / 0.07 N/A	ND
Methiocarb 0.02 / 0.07 N/A	ND

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A00000198 | DATE ISSUED 08/23/2023





Pesticide Analysis Continued

PESTICIDE TEST RESULTS - 08/22/2023 continued ND

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Methomyl	0.03 / 0.10	N/A	ND
Mevinphos	0.03 / 0.09	N/A	ND
Myclobutanil	0.03 / 0.09	N/A	ND
Naled	0.02 / 0.07	N/A	ND
Oxamyl	0.04 / 0.11	N/A	ND
Paclobutrazol	0.02 / 0.05	N/A	ND
Parathion-methyl	0.03 / 0.10	N/A	ND
Pentachloronitrobenzene*	0.03 / 0.09	N/A	ND
Permethrin	0.04 / 0.12	N/A	ND
Phosmet	0.03 / 0.10	N/A	ND
Piperonyl Butoxide	0.02 / 0.07	N/A	ND
Prallethrin	0.03 / 0.08	N/A	ND
Propiconazole	0.02 / 0.07	N/A	ND
Propoxur	0.03 / 0.09	N/A	ND
Pyrethrins	0.04 / 0.12	N/A	ND
Pyridaben	0.02 / 0.07	N/A	ND
Spinetoram	0.02 / 0.07	N/A	ND
Spinosad	0.02 / 0.07	N/A	ND
Spiromesifen	0.02 / 0.05	N/A	ND
Spirotetramat	0.02 / 0.06	N/A	ND
Spiroxamine	0.03 / 0.08	N/A	ND
Tebuconazole	0.02 / 0.07	N/A	ND
Thiacloprid	0.03 / 0.10	N/A	ND
Thiamethoxam	0.03 / 0.10	N/A	ND
Trifloxystrobin	0.03 / 0.08	N/A	ND



Mycotoxin Analysis

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by

MYCOTOXIN TEST RESULTS - 08/22/2023 ND

COMPOUND	LOD/LOQ (µg/kg)	MEASUREMENT UNCERTAINTY (μg/kg)	RESULT (μg/kg)
Aflatoxin B1	2.0 / 6.0	N/A	ND
Aflatoxin B2	1.8 / 5.6	N/A	ND
Aflatoxin G1	1.0 / 3.1	N/A	ND
Aflatoxin G2	1.2 / 3.5	N/A	ND
Total Aflatoxin			ND
Ochratoxin A	6.3 / 19.2	N/A	ND



A00000198 | DATE ISSUED 08/23/2023





Residual Solvents Analysis

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

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

RESIDUAL SOLVENTS TEST RESULTS - 08/21/2023 ND

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Propane	10/20	N/A	ND
n-Butane	10/50	N/A	ND
n-Pentane	20/50	N/A	ND
n-Hexane	2/5	N/A	ND
n-Heptane	20/60	N/A	ND
Benzene	0.03 / 0.09	N/A	ND
Toluene	7/21	N/A	ND
Total Xylenes	50 / 160	N/A	ND
Methanol	50 / 200	N/A	ND
Ethanol	20/50	N/A	ND
2-Propanol (Isopropyl Alcohol)	10/40	N/A	ND
Acetone	20/50	N/A	ND
Ethyl Ether	20/50	N/A	ND
Ethylene Oxide	0.3 / 0.8	N/A	ND
Ethyl Acetate	20/60	N/A	ND
Chloroform	0.1/0.2	N/A	ND
Dichloromethane (Methylene Chloride)	0.3 / 0.9	N/A	ND
Trichloroethylene	0.1/0.3	N/A	ND
1,2-Dichloroethane	0.05 / 0.1	N/A	ND
Acetonitrile	2/7	N/A	ND



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 - 08/21/2023 ND

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



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

MICROBIOLOGY TEST RESULTS (PCR) - 08/23/2023 ND

COMPOUND		RESULT
Shiga toxin-producing Esch	erichia coli	ND
Salmonella spp.		ND







A00000198 | DATE ISSUED 08/23/2023



Microbiology Analysis Continued MICROBIOLOGY TEST RESULTS (PLATING) - 08/23/2023 ND

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

Method: QSP 6794 - Plating with $3M^{TM}$ Petrifilm TM

COMPOUND	RESULT (cfu/g)
Total Aerobic Bacteria	ND
Total Yeast and Mold	ND
Coliforms	ND