



CERTAINTY ANALYTICAL LABS

Order Information

Sample Name:

Sample Type:

Date Collected:

Report Type:

Company Info:

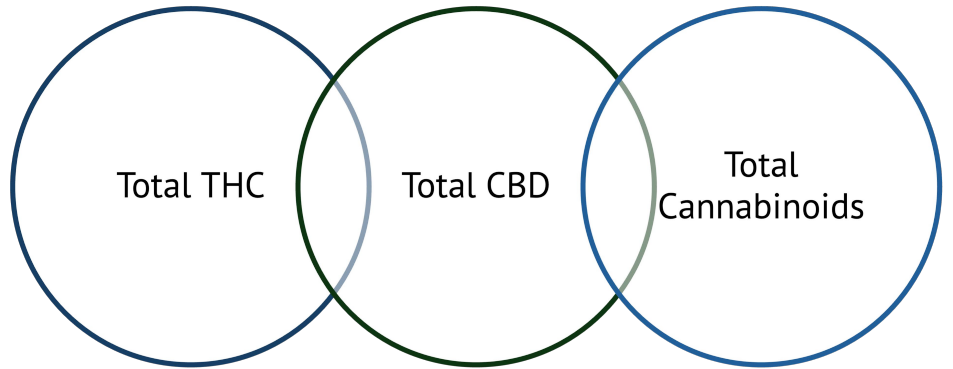
Batch Information

Batch ID:

Sample ID:

Lot No.:

Lot Size:



Heavy Metals

Pesticides

Microbes

Solvents

Mycotoxins

Water Activity

Filth

Moisture

Terpenes

OCM Permit No. - OCM-CPL-2022-00012

Brandy Young Jgamana

MANAGED BY: Brandy Young, PhD (Lab Director)

DATE

Testing results are based solely upon the sample submitted to the lab and in the condition it was received. Certainty Analytical Labs, Corp. warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices, as determined by the New York Office of Cannabis Management (Cannabis Laboratory Quality System Standard." New York State, Office of Cannabis Management, 2023). Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials.



CERTIFICATE OF ANALYSIS

Sample Name

Sample Type:	Sample ID:
Serving Size:	Submitted:
Lot No./Lot size:	Started:
Collection site:	Reported:
Collection date:	Collection time:

13 Panel Cannabinoid Profile

*Total cannabinoid results reflect the absolute sum of all cannabinoids detected.
 **Total THC & CBD is determined via the following:
 (1) Total THC = (THCA-A * (0.877)) + Δ9THC + Δ8THC + RS-Δ10THC + RR-Δ10THC
 (2) Total CBD = (CBDA * (0.877)) + CBD
 ND = None Detected
 <LOQ = Below the LOQ
 N/A = Not Applicable for this sample
 Instrument - Hippolyta
 Method - W_SOP_01
 Form F_QCD_14

COMPOUND	LOQ (PPM)	RESULT (mg/serving)	RESULT (%w/w)	RESULT (moisture corrected) (mg/serving)	RESULT (moisture corrected) (%w/w)
Δ9THC	1.0				
Δ8THC	1.0				
RS-Δ10THC	1.0				
RR-Δ10THC	1.0				
THCA-A	1.0				
THCV	1.0				
CBD	1.0				
CBDA	1.0				
CBDV	1.0				
CBN	1.0				
CBG	1.0				
CBGA	1.0				
CBC	1.0				
TOTAL CANNABINOIDS *		mg/serving	%w/w	mg/serving	%w/w
TOTAL THC **		mg/serving	%w/w	mg/serving	%w/w
TOTAL CBD **		mg/serving	%w/w	mg/serving	%w/w

Moisture Content

***Pass: sample %moisture is between 5.0% - 15.0%
 ***Fail: sample %moisture is <5.0% or >15.0%
 N/A = Not Applicable for this sample
 Instrument - UCLA
 Method - W_SOP_04

%MOISTURE & MOISTURE CORRECTED VALUES	Pass <input type="checkbox"/>	Fail <input type="checkbox"/>	N/A <input type="checkbox"/>
SAMPLE % MOISTURE CONTENT***			

NOTES:
 <INCLUDE ANY NOTES HERE>

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	MANAGED BY: Brandy Young, PhD (Lab Director)	DATE

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Date Released: 9/27/2024 2:24:28PM

Report #: 24497

20240918.1.005

Sample #: 6038, Weight: 15.00g, Unit Count:
Order #: X240920-0003

Category/Type: Plant, Flower - Cured
Date Collected: 9/19/2024 4:43:00PM
Date Received: 9/20/2024 10:06:16AM
Date Sampled: 9/19/2024 11:20:00AM

Regulator Sample ID: 20240918.1.005
Regulator Source Package ID: 20240918.1.005
Regulator Batch ID: 20240918.1.005

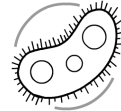
Size: Not Provided, Unit Count:



Total Terpenes
1.032 %



Heavy Metals
PASS



Microbials
PASS



Pesticides
PASS



Mycotoxins
PASS



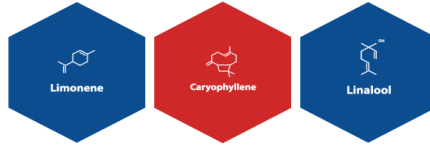
Foreign Matter
PASS



Water Activity
PASS

Terpenes by HS-GC-MS

Date Completed: 09/20/2024 5:19PM



Compound	CAS#	LOQ (%)	%	Relative Concentration
Limonene	5989-27-5	0.1000	0.3246	<div style="width: 32.46%;"></div>
Beta-caryophyllene	87-44-5	0.1000	0.2593	<div style="width: 25.93%;"></div>
Linalool	78-70-6	0.1000	0.1638	<div style="width: 16.38%;"></div>
Beta-myrcene	123-35-3	0.1000	0.1577	<div style="width: 15.77%;"></div>
Terpinolene	586-62-9	0.1000	0.1261	<div style="width: 12.61%;"></div>
Alpha-pinene	80-56-8	0.1000	ND	
Alpha-humulene	6753-98-6	0.1000	ND	
Beta-pinene	127-91-3	0.1000	ND	
Ocimene	13877-91-3	0.1000	ND	
Alpha-bisabolol	515-69-5	0.1000	ND	

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Results based on simple acceptance, not taking into consideration measurement uncertainty.

If sampled by Keystone State Testing, sampling followed SOP-P-NY500 at the client facility listed above.



Keystone State Testing of New York
1809 Vestal Pkwy E

Vestal, NY 13850
(607)301-0884
InfoNY@KeystoneStateTesting.com
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Permit #: OCM-CPL-00007

Kelly Greenland

Dr. Kelly Greenland, Lab Director





Sample #: 6038

20240918.1.005

Compound	CAS#	LOQ (%)	%	Relative Concentration
Caryophyllene-oxide	1139-30-6	0.1000	ND	
Geraniol	106-24-1	0.1000	ND	
Camphene	79-92-5	0.1000	ND	
Guaiol	489-86-1	0.1000	ND	
Alpha-terpinene	99-86-5	0.1000	ND	
Terpineol	8006-39-1	0.1000	ND	
Fenchol	14575-74-7	0.1000	ND	
Valencene	4630-07-3	0.1000	ND	
Alpha-phellandrene	99-83-2	0.1000	ND	
Farnesene	502-61-4	0.1000	ND	

Test Comment: Terpenes tested by GCMS using P-NY210. Unless otherwise stated, all QC passed.

Foreign Matter by Microscopy

Pass

Analysis Date: 09/20/2024 3:54 pm

Compound	LOQ (%)	Limits (%)	Result (%)	Status
% Foreign Matter	0.00100	2.0	ND	Pass
Mammalian Excreta	0.00100	0.03	ND	Pass
Stems	0.00100	5.0	ND	Pass

Comment: Physical chemistry was tested using moisture analyzer, water activity meter using P-NY 160. Unless otherwise stated, all QC passed.

Water Activity

Pass

Analysis Date: 09/20/2024 3:54 pm

Compound	LOQ (Aw)	Limits (Aw)	Result (Aw)	Status
Water Activity	0.05	0.65	0.65	Pass

Comment: Physical chemistry was tested using moisture analyzer, water activity meter using P-NY 160. Unless otherwise stated, all QC passed.

Pesticides by LCMSMS

Pass

Analysis Date: 09/27/2024 11:36 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
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Sample #: 6038

20240918.1.005

Pesticides by LCMSMS

Pass

Analysis Date: 09/27/2024 11:36 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Abamectin	0.0100	0.500	ND	Pass
Acephate	0.0100	0.400	ND	Pass
Acequinocyl	0.0100	2.00	ND	Pass
Acetamiprid	0.0100	0.200	ND	Pass
Aldicarb	0.0100	0.400	ND	Pass
Azadirachtin	0.0100	1.00	ND	Pass
Azoxystrobin	0.0100	0.200	ND	Pass
Bifenazate	0.0100	0.200	ND	Pass
Bifenthrin	0.0100	0.200	ND	Pass
Boscalid	0.0100	0.400	ND	Pass
Captan	0.0100	1.00	ND	Pass
Carbaryl	0.0100	0.200	ND	Pass
Carbofuran	0.0100	0.200	ND	Pass
Chlorantraniliprole	0.0100	0.200	ND	Pass
Chlordane-alpha	0.0100	1.00	ND	Pass
Chlorfenapyr	0.0100	1.00	ND	Pass
Chloromequat Chloride	0.0100	1.00	ND	Pass
Chlorpyrifos	0.0100	0.200	ND	Pass
Clofentezine	0.0100	0.200	ND	Pass
Coumaphos	0.0100	1.00	ND	Pass
Cyfluthrin	0.0100	1.00	ND	Pass
Cypermethrin	0.0100	1.00	ND	Pass
Daminozide	0.0100	1.00	ND	Pass
Diazinon	0.0100	0.200	ND	Pass
Dichlorvos	0.0100	1.00	ND	Pass
Dimethoate	0.0100	0.200	ND	Pass

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Sample #: 6038

20240918.1.005

Pesticides by LCMSMS

Pass

Analysis Date: 09/27/2024 11:36 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Dimethomorph	0.0100	1.00	ND	Pass
Ethoprophos	0.0100	0.200	ND	Pass
Etofenprox	0.0100	0.400	ND	Pass
Etoxazole	0.0100	0.200	ND	Pass
Fenhexamid	0.0100	1.00	ND	Pass
Fenoxycarb	0.0100	0.200	ND	Pass
Fenpyroximate	0.0100	0.400	ND	Pass
Fipronil	0.0100	0.400	ND	Pass
Fonicamid	0.0100	1.00	ND	Pass
Fludioxonil	0.0100	0.400	ND	Pass
Hexythiazox	0.0100	1.00	ND	Pass
Imazalil	0.0100	0.200	ND	Pass
Imidacloprid	0.0100	0.400	ND	Pass
Indolebutyric Acid	0.0100	1.00	ND	Pass
Kresoxim-methyl	0.0100	0.400	ND	Pass
Malathion	0.0100	0.200	ND	Pass
Metalaxyl	0.0100	0.200	ND	Pass
Methiocarb	0.0100	0.200	ND	Pass
Methomyl	0.0100	0.400	ND	Pass
Methyl Parathion	0.0100	0.200	ND	Pass
Mevinphos	0.0100	1.00	ND	Pass
MGK-264	0.0100	0.200	ND	Pass
Myclobutanil	0.0100	0.200	ND	Pass
Naled	0.0100	0.500	ND	Pass
Oxamyl	0.0100	1.00	ND	Pass
Paclobutrazol	0.0100	0.400	ND	Pass

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20240918.1.005

Pesticides by LCMSMS

Pass

Analysis Date: 09/27/2024 11:36 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Pentachloronitrobenzene	0.0100	1.00	ND	Pass
Permethrins, Total	0.0100	0.200	ND	Pass
Phosmet	0.0100	0.200	ND	Pass
Piperonyl Butoxide	0.0100	2.00	ND	Pass
Prallethrin	0.0100	0.200	ND	Pass
Propiconazole	0.0100	0.400	ND	Pass
Propoxur	0.0100	0.200	ND	Pass
Pyrethrins Total	0.0100	1.00	ND	Pass
Pyridaben	0.0100	0.200	ND	Pass
Spinetoram Total	0.0100	1.00	ND	Pass
Spinosad Total	0.0100	0.200	ND	Pass
Spiromesifen	0.0100	0.200	ND	Pass
Spirotetramat	0.0100	0.200	ND	Pass
Spiroxamine	0.0100	0.200	ND	Pass
Tebuconazole	0.0100	0.400	ND	Pass
Thiacloprid	0.0100	0.200	ND	Pass
Thiamethoxam	0.0100	0.200	ND	Pass
Trifloxystrobin	0.0100	0.200	ND	Pass

Comment: Pesticides tested by LCMSMS by using P-NY150. Unless otherwise stated, all QC passed.

Mycotoxins by LCMSMS

Pass

Analysis Date: 09/27/2024 11:36 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Aflatoxin B1	0.0050	0.020	ND	Pass
Aflatoxin B2	0.0050	0.020	ND	Pass
Aflatoxin G1	0.0050	0.020	ND	Pass
Aflatoxin G2	0.0050	0.020	ND	Pass

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Sample #: 6038

20240918.1.005

Mycotoxins by LCMSMS

Pass

Analysis Date: 09/27/2024 11:36 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Ochratoxin A	0.0050	0.020	ND	Pass
Total Aflatoxin	0.0050	0.020	ND	Pass

Comment: Mycotoxin contamination tested by LCMSMS using P-NY125. Unless otherwise stated, all QC passed.

Heavy Metals by ICPMS

Pass

Analysis Date: 09/25/2024 9:07 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Antimony	0.0100	2.00	ND	Pass
Arsenic	0.00100	0.200	ND	Pass
Cadmium	0.00150	0.200	0.00410	Pass
Chromium	0.280	110	ND	Pass
Copper	0.0750	30.0	4.42	Pass
Lead	0.00250	0.500	0.0450	Pass
Mercury	0.000500	0.100	0.00172	Pass
Nickel	0.0100	5.00	0.104	Pass

Comment: Heavy Metal contamination tested by ICPMS using P-NY140. Unless otherwise stated, all QC passed.

Micro by Petri & qPCR

Pass

Analysis Date: 09/24/2024 10:41 am

Compound	LOQ (CFU/g)	Limits (CFU/g)	Result (CFU/g)	Status
Aspergillus flavus Qualitative	1	0	Not Detected	Pass
Aspergillus fumigatus Qualitative	1	0	Not Detected	Pass
Aspergillus niger Qualitative	1	0	Not Detected	Pass
Aspergillus terreus Qualitative	1	0	Not Detected	Pass
Salmonella Qualitative	1	0	Not Detected	Pass
Shiga Toxin-Producing E. coli Qualitative	1	0	Not Detected	Pass
Total Aerobic Bacteria	10		94000	Pass
Total Yeast & Mold	10		<LOQ	Pass

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Sample #: 6038

20240918.1.005

Comment: Microbial contamination tested by Petrifilm plates and qPCR using P-NY120. Unless otherwise stated, all QC passed.
Due to COA validation limitations: "Not Detected" = "Absent" and "Detected" = "Presumptive Presence". Acceptance Limits: "0" = "Absence" and "1" = "Presence". "Passed" for an adult-use product implies the results contain less than 1,000,000 cfu/g.

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