



CERTAINTY ANALYTICAL LABS

**Order Information**

Sample Name:

Sample Type:

Date Collected:

Report Type:

Company Info:

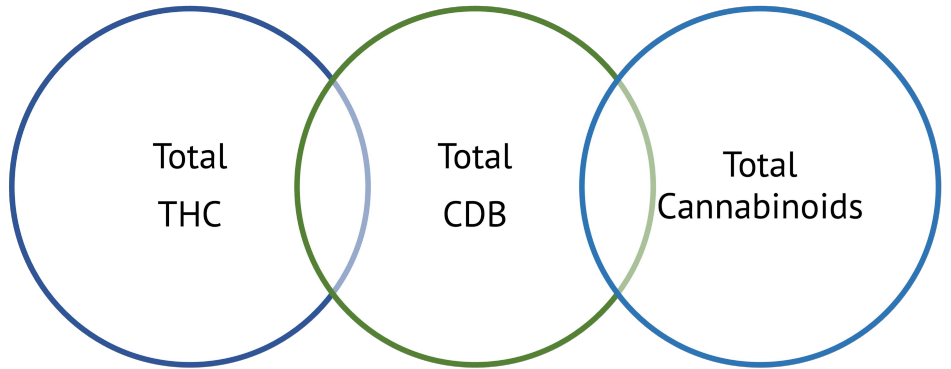
**Batch Information**

Batch ID:

Sample ID:

Lot No.:

Lot Size:



Heavy Metals

Pesticides

Microbes

Solvents

Mycotoxins

Water Activity

Filth

Moisture

Homogeneity

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				
<b>TOTAL CANNABINOIDS *</b>		mg/serving	%w/w	mg/serving	%w/w
<b>TOTAL THC **</b>		mg/serving	%w/w	mg/serving	%w/w
<b>TOTAL CBD **</b>		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

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

NOTES:  
 <INCLUDE ANY NOTES HERE>

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

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Date Released: 12/18/2023 2:16:34PM

Report #: 6834

20231206.1.004

Sample #: 3249, Weight: 49.00g, Unit Count:

Order #: X231206-0002

Category/Type: Plant, Flower - Cured

Date Collected: 12/6/2023 5:15:15PM

Date Received: 12/6/2023 7:34:35PM

Regulator Sample ID: PBID-GC231205TRW

Regulator Source Package ID: PBID-GC231205TRW

Regulator Batch ID: PBID-GC231205TRW

Size: Not Provided, Unit Count:



Total Terpenes  
2.0 %



Heavy Metals  
PASS



Microbials  
PASS



Pesticides  
PASS



Mycotoxins  
PASS



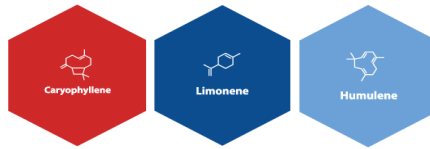
Foreign Matter  
PASS



Water Activity  
PASS

Terpenes by HS-GC-MS

Date Completed: 12/11/2023 10:28AM



Compound	CAS#	LOQ (%)	%	Relative Concentration
Beta-caryophyllene	87-44-5	0.1000	0.8277	
Farnesene	502-61-4	0.1000	0.4185	
Limonene	5989-27-5	0.1000	0.2543	
Alpha-humulene	6753-98-6	0.1000	0.2502	
Terpinolene	586-62-9	0.1000	0.2490	
Beta-myrcene	123-35-3	0.1000	ND	
Alpha-pinene	80-56-8	0.1000	ND	
Linalool	78-70-6	0.1000	ND	
Beta-pinene	127-91-3	0.1000	ND	
Borneol	464-43-7	0.1000	ND	
Ocimene	13877-91-3	0.1000	ND	

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



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Permit #: OCM-CPL-2022-00007

*Kelly Greenland*

Dr. Kelly Greenland, Lab Director





**Sample #: 3249**

**20231206.1.004**

Compound	CAS#	LOQ (%)	%	Relative Concentration
Alpha-bisabolol	515-69-5	0.1000	ND	
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	
Camphor	464-49-3	0.1000	ND	
3-Carene	13466-78-9	0.1000	ND	
Alpha-cedrene	469-61-4	0.1000	ND	
Cedrol	77-53-2	0.1000	ND	
Eucalyptol	470-82-6	0.1000	ND	
Fenchone	1195-79-5	0.1000	ND	
Gamma-terpinene	99-85-4	0.1000	ND	
Geranyl Acetate	105-87-3	0.1000	ND	
Isopulegol	89-79-2	0.1000	ND	
Menthol	15356-70-4	0.1000	ND	
Nerol	106-25-2	0.1000	ND	
Nerolidol			0.000	
Pulegone	89-82-7	0.1000	ND	
Sabinene	3387-41-5	0.1000	ND	
Sabinene Hydrate	546-79-2	0.1000	ND	

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

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**Sample #: 3249**

**20231206.1.004**

**Foreign Matter by Microscopy**

**Pass**

**Analysis Date: 12/13/2023 12:03 pm**

Compound	LOQ (%)	Limits (%)	Result (%)	Status
% Foreign Matter	0.00100	2.0	ND	Pass
Mammalian Exreta	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: 12/13/2023 12:03 pm**

Compound	LOQ (Aw)	Limits (Aw)	Result (Aw)	Status
Water Activity	0.05	0.65	0.32	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: 12/13/2023 10:20 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

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*Kelly N Greenland*

Dr. Kelly Greenland, Lab Director





**Sample #: 3249**

**20231206.1.004**

**Pesticides by LCMSMS**

**Pass**

**Analysis Date: 12/13/2023 10:20 am**

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
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
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

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**Sample #: 3249**

**20231206.1.004**

**Pesticides by LCMSMS**

**Pass**

**Analysis Date: 12/13/2023 10:20 am**

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
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
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

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**Sample #: 3249**

**20231206.1.004**

**Pesticides by LCMSMS**

**Pass**

**Analysis Date: 12/13/2023 10:20 am**

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
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: 12/13/2023 10:20 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
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: 12/11/2023 10:35 am**

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Antimony	0.0100	2.00	0.0263	Pass
Arsenic	0.00100	0.200	ND	Pass
Cadmium	0.00150	0.300	0.0433	Pass
Chromium	0.280	110	ND	Pass
Copper	0.0750	30.0	21.1	Pass
Lead	0.00250	0.500	0.0939	Pass
Mercury	0.000500	0.100	0.00521	Pass
Nickel	0.0100	5.00	0.605	Pass

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**Sample #: 3249**

**20231206.1.004**

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

**Micro by Petri & qPCR**

**Pass**

Analysis Date: 12/12/2023 4:51 pm

Compound	LOQ (CFU/g)	Limits (CFU/g)	Result (CFU/g)	Status
Aspergillus flavus Qualitative	0	0	Not Detected	Pass
Aspergillus fumigatus Qualitative	0	0	Not Detected	Pass
Aspergillus niger Qualitative	0	0	Not Detected	Pass
Aspergillus terreus Qualitative	0	0	Not Detected	Pass
Salmonella Qualitative	0	0	Not Detected	Pass
Shiga Toxin-Producing E. coli Qualitative	0	0	Not Detected	Pass
Total Aerobic Bacteria	10		53000	Pass
Total Yeast & Mold	10		52000	Pass

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".

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