



# Flowerhouse Walden LLC

2736 NY-208  
Walden, NY 12586  
katie@flowerhouseny.com  
917-374-7735

License #: OCM-AUCC-22-000111

# Certificate of Analysis

Final



Date Released: 9/21/2023 2:15:39PM

Report #: 3142

## FH0431

Sample #: 2536, Weight: 32.00g, Unit Count:

Order #: X230919-0004

Category/Type: Plant, Flower - Cured

Date Collected: 9/19/2023 3:37:13PM

Date Received: 9/19/2023 4:06:40PM

Regulator Sample ID: FH0431

Regulator Source Package ID: FH0431

Regulator Batch ID: FH0431

Size: 12400Units, Unit Count:



Total Cannabinoids  
25.80 %  
258.0 mg/g



Total THC  
22.22 %  
222.2 mg/g



Total CBD  
0.1189 %  
1.189 mg/g



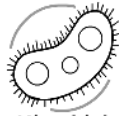
Total Terpenes  
0.59 %



Moisture  
10.7 %



Heavy Metals  
PASS



Microbials  
PASS



Pesticides  
PASS



Mycotoxins  
PASS



Foreign Matter  
PASS



Water Activity  
PASS

## Potency Analysis by HPLC

Total Cannabinoids: **25.80 % - 258.0 mg/g**

Total THC: **22.22 % - 222.2 mg/g**

Total CBD: **0.1189 % - 1.189 mg/g**

Date Completed: 09/20/2023 12:24PM

Compound	CAS#	LOQ (%)	%	mg/g	Relative Concentration
THCa	23978-85-0	0.001000	22.51	225.1	
d9-THC	1972-08-3	0.001000	2.476	24.76	
CBGa	25555-57-1	0.001000	0.5394	5.394	
CBDa	1244-58-2	0.001000	0.1356	1.356	
CBG	25654-31-3	0.001000	0.09637	0.9637	
CBN	521-35-7	0.001000	0.04461	0.4461	
d8-THC	5957-75-5	0.001000	ND	ND	
d10-THC	95543-62-7	0.001000	ND	ND	
THCV	31262-37-0	0.001000	ND	ND	
CBD	13956-29-1	0.001000	ND	ND	
CBDV	24274-48-4	0.001000	ND	ND	
CBC	20675-51-8	0.001000	ND	ND	

Test Comment: Cannabinoids analyzed by HPLC using P-NY100. The reported result is based on a sample weight using moisture content for flower samples unless moisture is listed as zero or ND. Unless otherwise stated all QC passed.

d8-THC is an abbreviation for delta-8 tetrahydrocannabinol. d9-THC is an abbreviation for delta-9 tetrahydrocannabinol.

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*Kelly Greenland*

Dr. Kelly Greenland, Lab Director





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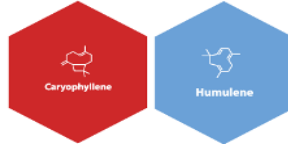


Sample #: 2536

FH0431

## Terpenes by HS-GC-MS

Date Completed: 09/20/2023 11:25AM



Compound	CAS#	LOQ (%)	%	Relative Concentration
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trans-Caryophyllene	87-44-5	0.1000	0.3241	
alpha-Humulene	6753-98-6	0.1000	0.1424	
beta-Farnesene	18794-84-8	0.1000	0.1259	

Results based on dry weight

(-)-Borneol	464-45-9	0.1000	ND
(-)-Caryophyllene Oxide	1139-30-6	0.1000	ND
(-)-Isopulegol	89-79-2	0.1000	ND
(+)-Borneol	464-43-7	0.1000	ND
(+)-Cedrol	77-53-2	0.1000	ND
(1R)-(+)-Camphor	464-49-3	0.1000	ND
3-Carene	13466-78-9	0.1000	ND
alpha-Bisabolol	515-69-5	0.1000	ND
alpha-Cedrene	469-61-4	0.1000	ND
alpha-Farnesene	502-61-4	0.1000	ND
alpha-Pinene	80-56-8	0.1000	ND
alpha-Terpinene	99-86-5	0.1000	ND
alpha-Terpineol	98-55-5	0.1000	ND
beta-Myrcene	123-35-3	0.1000	ND
beta-Pinene	127-91-3	0.1000	ND
Camphene	79-92-5	0.1000	ND
cis-Nerolidol	142-50-7	0.1000	ND
cis-Ocimene	3338-55-4	0.1000	ND

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Compound	CAS#	LOQ (%)	%	Relative Concentration
Endo-Fenchyl Alcohol	14575-74-7	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	
gamma-Terpineol	586-81-2	0.1000	ND	
Geraniol	106-24-1	0.1000	ND	
Geranyl Acetate	105-87-3	0.1000	ND	
Guaiol	489-86-1	0.1000	ND	
Hexahydro Thymol	15356-70-4	0.1000	ND	
Linalool	78-70-6	0.1000	ND	
Nerol	106-25-2	0.1000	ND	
p-Mentha-1,5-diene	99-83-2	0.1000	ND	
Pulegone	89-82-7	0.1000	ND	
R(+)-Limonene	5989-27-5	0.1000	ND	
Sabinene	3387-41-5	0.1000	ND	
Sabinene Hydrate	546-79-2	0.1000	ND	
Terpinolene	586-62-9	0.1000	ND	
trans-Nerolidol	40716-66-3	0.1000	ND	
trans-Ocimene	3779-61-1	0.1000	ND	
Valencene	4630-07-3	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: 09/20/2023 11:48 am

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

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

## Moisture by Analyzer

Pass

Analysis Date: 09/20/2023 11:09 am

Compound	LOQ (%)	Limits (%)	Result (%)	Status
Moisture	1.2	5 - 15	10.7	Pass

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

## Water Activity by Meter

Pass

Analysis Date: 09/20/2023 12:33 pm

Compound	LOQ (Aw)	Limits (Aw)	Result (Aw)	Status
Water Activity	0.05	0.65	0.54	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: 09/20/2023 11:12 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Abamectin	0.0100	0.5	ND	Pass
Acephate	0.0100	0.4	ND	Pass
Acequinocyl	0.0100	2	ND	Pass
Acetamiprid	0.0100	0.2	ND	Pass
Aldicarb	0.0100	0.4	ND	Pass
Azadirachtin	0.0100	1	ND	Pass
Azoxystrobin	0.0100	0.2	ND	Pass
Bifenazate	0.0100	0.2	ND	Pass
Bifenthrin	0.0100	0.2	ND	Pass
Boscalid	0.0100	0.4	ND	Pass
Captan	0.0100	1	ND	Pass
Carbaryl	0.0100	0.2	ND	Pass
Carbofuran	0.0100	0.2	ND	Pass
Chlorantraniliprole	0.0100	0.2	ND	Pass
Chlordane-alpha	0.0100	1	ND	Pass

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## Pesticides by LCMSMS

Pass

Analysis Date: 09/20/2023 11:12 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Chlorfenapyr	0.0100	1	ND	Pass
Chlormequat Chloride	0.0100	1	ND	Pass
Chlorpyrifos	0.0100	0.2	ND	Pass
Clofentezine	0.0100	0.2	ND	Pass
Coumaphos	0.0100	1	ND	Pass
Cyfluthrin	0.0100	1	ND	Pass
Cypermethrin	0.0100	1	ND	Pass
Daminozide	0.0100	1	ND	Pass
Diazinon	0.0100	0.2	ND	Pass
Dichlorvos	0.0100	1	ND	Pass
Dimethoate	0.0100	0.2	ND	Pass
Dimethomorph	0.0100	1	ND	Pass
Ethoprophos	0.0100	0.2	ND	Pass
Etofenprox	0.0100	0.4	ND	Pass
Etoxazole	0.0100	0.2	ND	Pass
Fenhexamid	0.0100	1	ND	Pass
Fenoxycarb	0.0100	0.2	ND	Pass
Fenpyroximate	0.0100	0.4	ND	Pass
Fipronil	0.0100	0.4	ND	Pass
Fonicamid	0.0100	1	ND	Pass
Fludioxonil	0.0100	0.4	ND	Pass
Hexythiazox	0.0100	1	ND	Pass
Imazalil	0.0100	0.2	ND	Pass
Imidacloprid	0.0100	0.4	ND	Pass
Indolebutyric Acid	0.0100	1	ND	Pass
Kresoxim-methyl	0.0100	0.4	ND	Pass

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## Pesticides by LCMSMS

Pass

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Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Malathion	0.0100	0.2	ND	Pass
Metalaxyl	0.0100	0.2	ND	Pass
Methiocarb	0.0100	0.2	ND	Pass
Methomyl	0.0100	0.4	ND	Pass
Methyl Parathion	0.0100	0.2	ND	Pass
Mevinphos	0.0100	1	ND	Pass
MGK-264	0.0100	0.2	ND	Pass
Myclobutanil	0.0100	0.2	ND	Pass
Naled	0.0100	0.5	ND	Pass
Oxamyl	0.0100	1	ND	Pass
Paclobutrazol	0.0100	0.4	ND	Pass
Pentachloronitrobenzene	0.0100	1	ND	Pass
Permethrins, Total	0.0100	0.2	ND	Pass
Phosmet	0.0100	0.2	ND	Pass
Piperonyl Butoxide	0.0100	2	0.490	Pass
Prallethrin	0.0100	0.2	ND	Pass
Propiconazole	0.0100	0.4	ND	Pass
Propoxur	0.0100	0.2	ND	Pass
Pyrethrins Total	0.0100	1	ND	Pass
Pyridaben	0.0100	0.2	ND	Pass
Spinetoram Total	0.0100	1	ND	Pass
Spinosad Total	0.0100	0.2	ND	Pass
Spiromesifen	0.0100	0.2	ND	Pass
Spirotetramat	0.0100	0.2	ND	Pass
Spiroxamine	0.0100	0.2	ND	Pass
Tebuconazole	0.0100	0.4	ND	Pass

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## Pesticides by LCMSMS

Pass

Analysis Date: 09/20/2023 11:12 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Thiacloprid	0.0100	0.2	ND	Pass
Thiamethoxam	0.0100	0.2	ND	Pass
Trifloxystrobin	0.0100	0.2	ND	Pass

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

## Mycotoxins by LCMSMS

Pass

Analysis Date: 09/20/2023 11:12 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: 09/20/2023 11:42 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Antimony	0.0100	2	ND	Pass
Arsenic	0.00100	0.2	0.114	Pass
Cadmium	0.00150	0.3	ND	Pass
Chromium	0.280	110	1.02	Pass
Copper	0.0750	30	2.93	Pass
Lead	0.00250	0.5	0.00828	Pass
Mercury	0.000500	0.1	ND	Pass
Nickel	0.0100	2	ND	Pass

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

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## Micro by Petri & qPCR

Pass

Analysis Date: 09/20/2023 11:08 am

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		ND	Pass
Total Yeast & Mold	10		ND	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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