

# Gage Farms

3121 State Route 54A  
Bluff Point, NY 14478  
Kueka Park NY 14478  
elh25@cornell.edu  
607-351-1358  
License #: OCM-AUCC-22-000131

# Certificate of Analysis

Final

Date Released: 7/5/2023 12:29:41PM

Report #: 2105

## GG4 Pre-roll

Sample #: 1658, Weight: 24.00g, Unit Count:

Order #: X230628-0001

Category/Type: Plant, Preroll

Date Collected: 6/28/2023 1:29:16PM

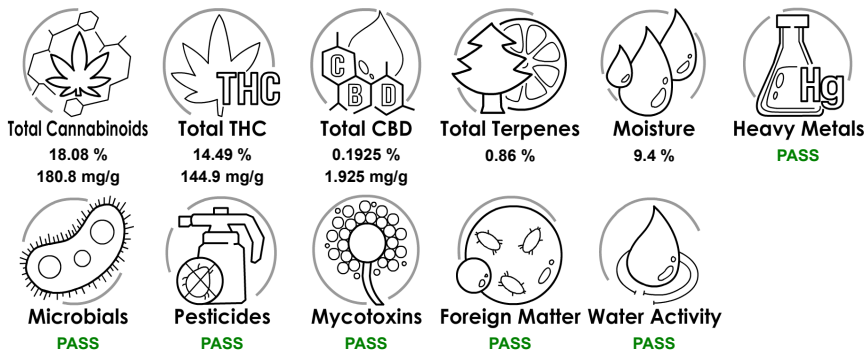
Date Received: 6/28/2023 1:36:45PM

Regulator Sample ID: GG4PR22-00016

Regulator Source Package ID: GG4PR22-00016

Regulator Batch ID: GG4PR22-00016

Size: 28000Units, Unit Count:



## Potency Analysis by HPLC

Total Cannabinoids: **18.08 % - 180.8 mg/g**

Total THC: **14.49 % - 144.9 mg/g**

Total CBD: **0.1925 % - 1.925 mg/g**

Date Completed: 06/29/2023 10:42AM

Compound	CAS#	LOQ (%)	%	mg/g	Relative Concentration
THCa	23978-85-0	0.001000	14.47	144.7	[Bar]
d9-THC	1972-08-3	0.001000	1.799	17.99	[Bar]
CBGa	25555-57-1	0.001000	1.391	13.91	[Bar]
CBDa	1244-58-2	0.001000	0.2195	2.195	[Bar]
CBG	25654-31-3	0.001000	0.08685	0.8685	[Bar]
d8-THC	5957-75-5	0.001000	0.07187	0.7187	[Bar]
CBC	20675-51-8	0.001000	0.03337	0.3337	[Bar]
CBN	521-35-7	0.001000	0.01155	0.1155	[Bar]
d10-THC	95543-62-7	0.001000	ND	ND	[Bar]
THCV	31262-37-0	0.001000	ND	ND	[Bar]
CBD	13956-29-1	0.001000	ND	ND	[Bar]
CBDV	24274-48-4	0.001000	ND	ND	[Bar]

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



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*Kelly N. Greenland*

Dr. Kelly Greenland, Lab Director



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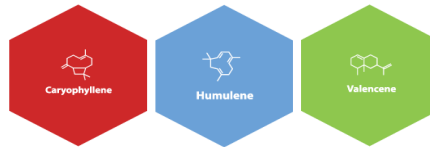
Final

Sample #: 1658

GG4 Pre-roll

## Terpenes by HS-GC-MS

Date Completed: 06/30/2023 9:40AM



Compound	CAS#	LOQ (%)	%	Relative Concentration
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trans-Caryophyllene	87-44-5	0.1000	0.4055	
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alpha-Humulene	6753-98-6	0.1000	0.1920	
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alpha-Farnesene	502-61-4	0.1000	0.1418	
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Valencene	4630-07-3	0.1000	0.1210	
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(-)-Borneol	464-45-9	0.1000	ND	
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(-)-Caryophyllene Oxide	1139-30-6	0.1000	ND	
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(-)-Isopulegol	89-79-2	0.1000	ND	
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(+)-Borneol	464-43-7	0.1000	ND	
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(+)-Cedrol	77-53-2	0.1000	ND	
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(1R)-(+)-Camphor	464-49-3	0.1000	ND	
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3-Carene	13466-78-9	0.1000	ND	
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alpha-Bisabolol	515-69-5	0.1000	ND	
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alpha-Cedrene	469-61-4	0.1000	ND	
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alpha-Pinene	80-56-8	0.1000	ND	
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alpha-Terpinene	99-86-5	0.1000	ND	
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alpha-Terpineol	98-55-5	0.1000	ND	
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beta-Farnesene	18794-84-8	0.1000	ND	
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beta-Myrcene	123-35-3	0.1000	ND	
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beta-Pinene	127-91-3	0.1000	ND	
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Camphene	79-92-5	0.1000	ND	
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cis-Nerolidol	142-50-7	0.1000	ND	
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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	

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

## Foreign Matter by Microscopy

Pass

Analysis Date: 06/28/2023 4:48 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.

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Final

**Sample #: 1658****GG4 Pre-roll****Moisture by Analyzer****Pass**

Analysis Date: 06/28/2023 4:48 pm

Compound	LOQ (%)	Limits (%)	Result (%)	Status
Moisture	1.2	5 - 15	9.4	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: 06/28/2023 4:48 pm

Compound	LOQ (Aw)	Limits (Aw)	Result (Aw)	Status
Water Activity	0.05	0.65	0.51	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: 07/03/2023 9:52 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
Chlorfenapyr	0.0100	1	ND	Pass

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## Pesticides by LCMSMS

Pass

Analysis Date: 07/03/2023 9:52 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Chloromequat 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
Flonicamid	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
Malathion	0.0100	0.2	ND	Pass

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## Pesticides by LCMSMS

Pass

Analysis Date: 07/03/2023 9:52 am

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

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Final

**Sample #: 1658****GG4 Pre-roll****Pesticides by LCMSMS****Pass**

Analysis Date: 07/03/2023 9:52 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
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: 07/03/2023 9:52 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: 06/29/2023 11:02 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Antimony	0.0100	2	0.0218	Pass
Arsenic	0.00100	0.2	0.0317	Pass
Cadmium	0.00150	0.3	0.0933	Pass
Chromium	0.280	110	2.52	Pass
Copper	0.0750	30	14.8	Pass
Lead	0.00250	0.5	0.0458	Pass
Mercury	0.000500	0.1	0.00556	Pass
Nickel	0.0100	2	0.647	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: 06/30/2023 9:31 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		1000	Pass
Total Yeast & Mold	10		3000	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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