

# 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 #: 2106

## Blueberry Cupcake Pre-roll

Sample #: 1659, Weight: 15.00g, Unit Count:

Order #: X230628-0001

Category/Type: Plant, Preroll

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

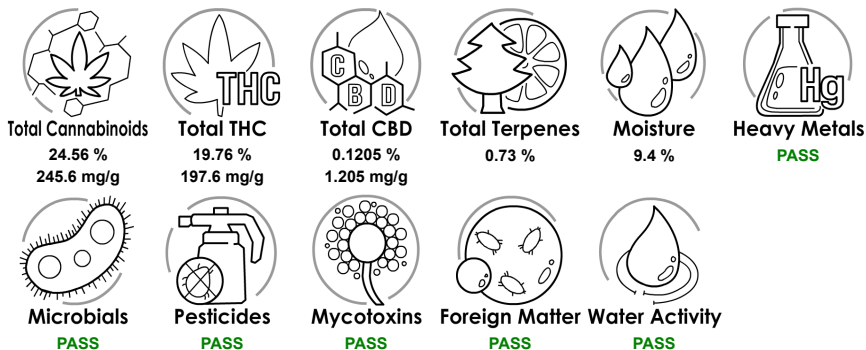
Date Received: 6/28/2023 1:36:46PM

Regulator Sample ID: BBCCPR22-00032

Regulator Source Package ID: BBCCPR22-00032

Regulator Batch ID: BBCCPR22-00032

Size: 10000Units, Unit Count:



### Potency Analysis by HPLC

Total Cannabinoids: **24.56 % - 245.6 mg/g**

Total THC: **19.76 % - 197.6 mg/g**

Total CBD: **0.1205 % - 1.205 mg/g**

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

| Compound | CAS#       | LOQ (%)  | %       | mg/g   | Relative Concentration |
|----------|------------|----------|---------|--------|------------------------|
| THCa     | 23978-85-0 | 0.001000 | 20.92   | 209.2  |                        |
| CBGa     | 25555-57-1 | 0.001000 | 1.821   | 18.21  |                        |
| d9-THC   | 1972-08-3  | 0.001000 | 1.415   | 14.15  |                        |
| CBDa     | 1244-58-2  | 0.001000 | 0.1374  | 1.374  |                        |
| CBG      | 25654-31-3 | 0.001000 | 0.1019  | 1.019  |                        |
| d8-THC   | 5957-75-5  | 0.001000 | 0.07831 | 0.7831 |                        |
| CBC      | 20675-51-8 | 0.001000 | 0.03424 | 0.3424 |                        |
| CBDV     | 24274-48-4 | 0.001000 | 0.03338 | 0.3338 |                        |
| THCV     | 31262-37-0 | 0.001000 | 0.01926 | 0.1926 |                        |
| d10-THC  | 95543-62-7 | 0.001000 | ND      | ND     |                        |
| CBD      | 13956-29-1 | 0.001000 | ND      | ND     |                        |
| CBN      | 521-35-7   | 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*

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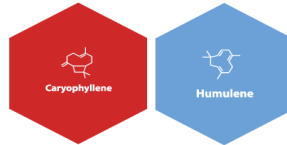
Final





Sample #: 1659

Blueberry Cupcake Pre-roll

## Terpenes by HS-GC-MS

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



| Compound                | CAS#       | LOQ (%) | %      | Relative Concentration   |
|-------------------------|------------|---------|--------|--|
| trans-Caryophyllene     | 87-44-5    | 0.1000  | 0.3042 |  |
| alpha-Farnesene         | 502-61-4   | 0.1000  | 0.1645 |  |
| beta-Farnesene          | 18794-84-8 | 0.1000  | 0.1339 |  |
| alpha-Humulene          | 6753-98-6  | 0.1000  | 0.1309 |  |
| (-)-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-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     |  |
| Endo-Fenchyl Alcohol    | 14575-74-7 | 0.1000  | ND     |  |

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| Compound           | CAS#       | LOQ (%) | %  | Relative Concentration |
|--------------------|------------|---------|----|------------------------|
| 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: 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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## 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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Final

**Sample #: 1659****Blueberry Cupcake 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 |
|----------------------|------------|---------------|---------------|--------|
| 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   |
| 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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# Certificate of Analysis

Final

Sample #: 1659

Blueberry Cupcake 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 |
|-------------------------|------------|---------------|---------------|--------|
| 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 #: 1659****Blueberry Cupcake 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             | 0.0168        | Pass   |
| Arsenic  | 0.00100    | 0.2           | 0.0215        | Pass   |
| Cadmium  | 0.00150    | 0.3           | 0.0962        | Pass   |
| Chromium | 0.280      | 110           | 2.54          | Pass   |
| Copper   | 0.0750     | 30            | 10.1          | Pass   |
| Lead     | 0.00250    | 0.5           | 0.0390        | Pass   |
| Mercury  | 0.000500   | 0.1           | 0.00470       | Pass   |
| Nickel   | 0.0100     | 2             | 0.794         | Pass   |

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

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Final

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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          |                | 8000           | Pass   |
| Total Yeast & Mold                        | 10          |                | 5000           | 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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