

Lead Farmer

1886 CR-39 Bainbridge, NY, 13733
TheLeadFarmer312@gmail.com
8455320270
License #: OCM-MICR-24-000011

Certificate of Analysis

Final



Date Released: 8/29/2025 5:11:22PM

Report #: 78666

Mac 1 8th

Sample #: 18245, Weight: 45.50g, Unit Count:
Order #: X250825-0034

Category/Type: Plant, Flower - Cured
Date Collected: 8/22/2025 4:05:00PM
Date Received: 8/25/2025 10:07:32AM
Date Sampled: 8/22/2025 10:14:00AM

Regulator Sample ID: LF-005-0521-Mac1-8th
Regulator Source Package ID: LF-005-0521-Mac1-8th
Regulator Batch ID: LF-005-0521-Mac1-8th

Size: 1500Units, Unit Count:



Total Cannabinoids
26.15 %
261.5 mg/g



Total THC
21.65 %
216.5 mg/g



Total CBD
0.09906 %
0.9906 mg/g



Total Terpenes
1.537 %



Moisture
11.3 %



Heavy Metals
PASS



Microbials
PASS



Pesticides
PASS



Mycotoxins
PASS



Foreign Matter
PASS



Water Activity
PASS

Cannabinoids Avg

Total Cannabinoids: **26.15 % - 261.5 mg/g**
Total THC: **21.65 % - 216.5 mg/g**
Total CBD: **0.09906 % - 0.9906 mg/g**

Date Completed: 08/27/2025 5:54PM

| Compound | CAS# | LOQ (%) | % | mg/g | Relative Concentration |
|----------|------------|----------|----------|---------|----------------------------------|
| THCa | 23978-85-0 | 0.001000 | 24.35 | 243.5 | <div style="width: 95%;"></div> |
| CBGa | 25555-57-1 | 0.001000 | 1.227 | 12.27 | <div style="width: 5%;"></div> |
| d9-THC | 1972-08-3 | 0.001000 | 0.2979 | 2.979 | <div style="width: 1%;"></div> |
| CBG | 25654-31-3 | 0.001000 | 0.1611 | 1.611 | <div style="width: 1%;"></div> |
| CBDa | 1244-58-2 | 0.001000 | 0.1129 | 1.129 | <div style="width: 1%;"></div> |
| CBDV | 24274-48-4 | 0.001000 | 0.004510 | 0.04510 | <div style="width: 0.5%;"></div> |
| THCV | 31262-37-0 | 0.001000 | ND | ND | |

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| Compound | CAS# | LOQ (%) | % | mg/g | Relative Concentration |
|------------|------------|----------|----|------|------------------------|
| CBD | 13956-29-1 | 0.001000 | ND | ND | |
| CBN | 521-35-7 | 0.001000 | ND | ND | |
| d8-THC | 5957-75-5 | 0.001000 | ND | ND | |
| d10/R9-THC | 95543-62-7 | 0.001000 | ND | ND | |
| d10/S9-THC | 95588-87-7 | 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.

Terpenes by HS-GC-MS

Date Completed: 08/28/2025 4:18PM



| Compound | CAS# | LOQ (%) | % | Relative Concentration |
|-----------------------------|------------|---------|--------|------------------------|
| Beta-caryophyllene | 87-44-5 | 0.1000 | 0.4431 | |
| Limonene | 5989-27-5 | 0.1000 | 0.4112 | |
| Alpha-pinene | 80-56-8 | 0.1000 | 0.1940 | |
| Linalool | 78-70-6 | 0.1000 | 0.1530 | |
| Beta-pinene | 127-91-3 | 0.1000 | 0.1244 | |
| Alpha-humulene | 6753-98-6 | 0.1000 | 0.1075 | |
| Ocimene | 13877-91-3 | 0.1000 | 0.1042 | |
| Results based on dry weight | | | | |
| Beta-myrcene | 123-35-3 | 0.1000 | ND | |

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| Compound | CAS# | LOQ (%) | % | Relative Concentration |
|---------------------|------------|---------|----|------------------------|
| Terpinolene | 586-62-9 | 0.1000 | ND | |
| 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 | |
| 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: 08/28/2025 8:34 am

| Compound | LOQ (%) | Limits (%) | Result (%) | Status |
|---------------------|---------|------------|------------|--------|
| % Filth | 0.00100 | 2.0 | ND | Pass |
| % Mammalian Excreta | 0.00100 | 5.0 | ND | Pass |
| % Stems | 0.00100 | 0.03 | ND | Pass |

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: 08/28/2025 8:34 am

| Compound | LOQ (%) | Limits (%) | Result (%) | Status |
|----------|---------|------------|------------|--------|
| Moisture | 1.2 | 0 - 15 | 11.3 | 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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Water Activity by Meter

Pass

Analysis Date: 08/28/2025 8:34 am

| Compound | LOQ (Aw) | Limits (Aw) | Result (Aw) | Status |
|----------------|----------|-------------|-------------|--------|
| Water Activity | 0.05 | 0.65 | 0.53 | 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: 08/27/2025 12:26 pm

| 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 |

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**Sample #: 18245****Mac 1 8th****Pesticides by LCMSMS****Pass**

Analysis Date: 08/27/2025 12:26 pm

| Compound | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|--------------------|------------|---------------|---------------|--------|
| 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 |
| Etozazole | 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 |

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Pesticides by LCMSMS

Pass

Analysis Date: 08/27/2025 12:26 pm

| Compound | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|-------------------------|------------|---------------|---------------|--------|
| 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 |
| 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.

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Mycotoxins by LCMSMS

Pass

Analysis Date: 08/27/2025 12:24 pm

| 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: 08/27/2025 9:11 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 | 0.00340 | Pass |
| Chromium | 0.280 | 110 | ND | Pass |
| Copper | 0.0750 | 30.0 | 3.53 | Pass |
| Lead | 0.00250 | 0.500 | 0.0264 | Pass |
| Mercury | 0.000500 | 0.100 | ND | Pass |
| Nickel | 0.0100 | 5.00 | ND | Pass |

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

Micro by Petri & qPCR

Pass

Analysis Date: 08/27/2025 11:33 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 |

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Micro by Petri & qPCR

Pass

Analysis Date: 08/27/2025 11:33 am

| Compound | LOQ (CFU/g) | Limits (CFU/g) | Result (CFU/g) | Status |
|---|-------------|----------------|----------------|--------|
| Salmonella Qualitative | 1 | 0 | Not Detected | Pass |
| Shiga Toxin-Producing E. coli Qualitative | 1 | 0 | Not Detected | Pass |
| Total Aerobic Bacteria | 10 | | <LOQ | Pass |
| Total Yeast & Mold | 10 | | <LOQ | 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". "Passed" for an adult-use product implies the results contain less than 1,000,000 cfu/g.

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