

Torrwood Farm

198 Haring Rd, Barryville, NY, 12719
 Lucas.kerr@torrwoodfarm.com
 949-945-8484
 License #: OCM-AUCC-22-000060

Certificate of Analysis

Final



Date Released: 3/29/2024 12:04:39PM

Report #: 13697

MAC x Cruffin 2.5g

Sample #: 4121, Weight: 50.00g, Unit Count:

Order #: X240322-0001

Category/Type: Plant, Preroll

Date Collected: 3/22/2024 12:23:02PM

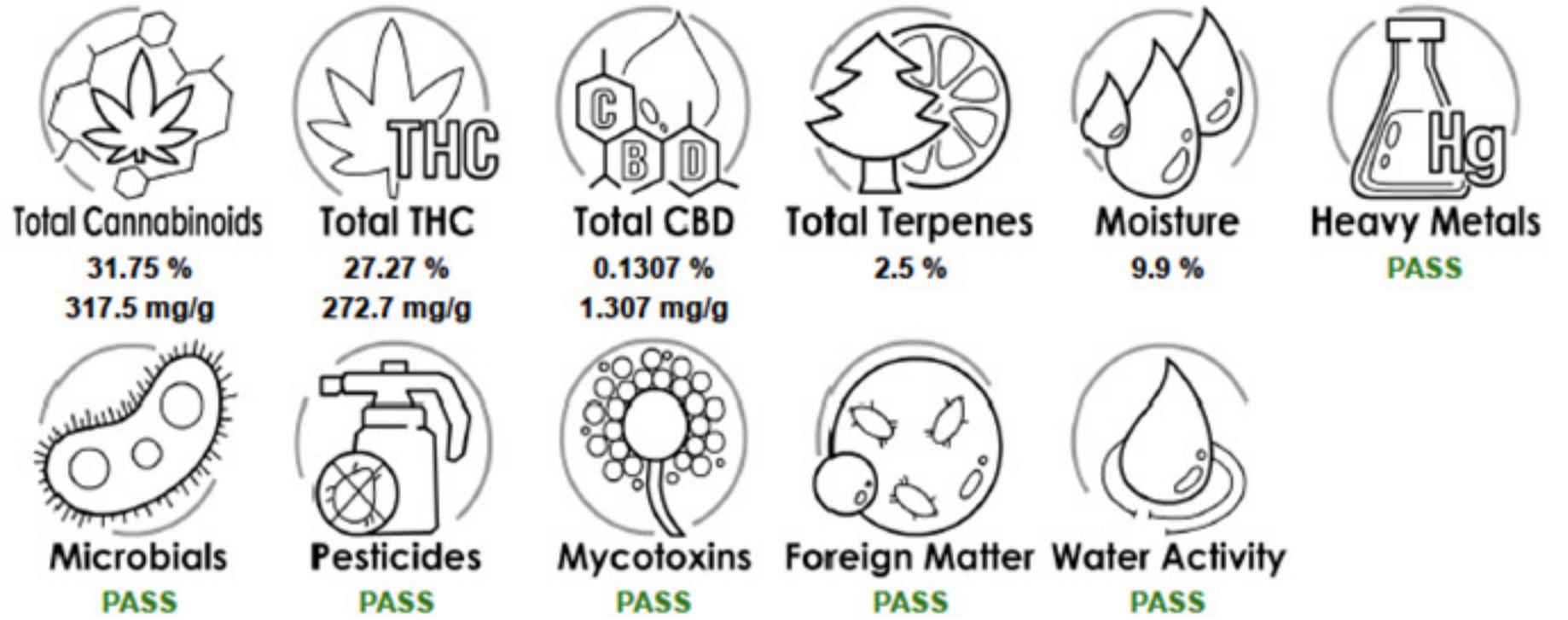
Date Received: 3/22/2024 12:37:01PM

Regulator Sample ID: STA-MACxCRUFFIN

Regulator Source Package ID: STA-MACxCRUFFIN

Regulator Batch ID: STA-MACxCRUFFIN

Size: 47488Units, Unit Count:



Potency Analysis by HPLC Date Completed: 03/26/2024 10:35AM

Total Cannabinoids: **31.75 % - 317.5 mg/g**
 Total THC: **27.27 % - 272.7 mg/g**
 Total CBD: **0.1307 % - 1.307 mg/g**

| Compound | CAS# | LOQ (%) | % | mg/g | Relative Concentration |
|----------|------------|----------|---------|--------|------------------------|
| THCa | 23978-85-0 | 0.001000 | 23.04 | 230.4 | [Bar] |
| d9-THC | 1972-08-3 | 0.001000 | 7.059 | 70.59 | [Bar] |
| CBGa | 25555-57-1 | 0.001000 | 0.9853 | 9.853 | [Bar] |
| CBG | 25654-31-3 | 0.001000 | 0.1704 | 1.704 | [Bar] |
| THCV | 31262-37-0 | 0.001000 | 0.1214 | 1.214 | [Bar] |
| CBDa | 1244-58-2 | 0.001000 | 0.1158 | 1.158 | [Bar] |
| CBC | 20675-51-8 | 0.001000 | 0.1093 | 1.093 | [Bar] |
| CBN | 521-35-7 | 0.001000 | 0.1036 | 1.036 | [Bar] |
| CBD | 13956-29-1 | 0.001000 | 0.02915 | 0.2915 | [Bar] |
| CBDV | 24274-48-4 | 0.001000 | 0.01214 | 0.1214 | [Bar] |
| d8-THC | 5957-75-5 | 0.001000 | ND | ND | [Bar] |
| d10-THC | 95543-62-7 | 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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Dr. Kelly Greenland, Lab Director



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Sample #: 4121

MAC x Cruffin 1g

Terpenes by HS-GC-MS

Date Completed: 03/26/2024 10:15AM



| Compound | CAS# | LOQ (%) | % | Relative Concentration |
|---------------------|------------|---------|--------|------------------------|
| Farnesene | 502-61-4 | 0.1000 | 0.8722 | 100% |
| Beta-caryophyllene | 87-44-5 | 0.1000 | 0.7254 | 83% |
| Limonene | 5989-27-5 | 0.1000 | 0.2779 | 32% |
| Alpha-humulene | 6753-98-6 | 0.1000 | 0.2494 | 29% |
| Alpha-bisabolol | 515-69-5 | 0.1000 | 0.2128 | 24% |
| Valencene | 4630-07-3 | 0.1000 | 0.1626 | 19% |
| Beta-myrcene | 123-35-3 | 0.1000 | ND | 0% |
| Alpha-pinene | 80-56-8 | 0.1000 | ND | 0% |
| Linalool | 78-70-6 | 0.1000 | ND | 0% |
| Beta-pinene | 127-91-3 | 0.1000 | ND | 0% |
| Terpinolene | 586-62-9 | 0.1000 | ND | 0% |
| Borneol | 464-45-9 | 0.1000 | ND | 0% |
| Ocimene | 13877-91-3 | 0.1000 | ND | 0% |
| Caryophyllene-oxide | 1139-30-6 | 0.1000 | ND | 0% |
| Geraniol | 106-24-1 | 0.1000 | ND | 0% |
| Camphene | 79-92-5 | 0.1000 | ND | 0% |
| Guaiol | 489-86-1 | 0.1000 | ND | 0% |
| Alpha-terpinene | 99-86-5 | 0.1000 | ND | 0% |
| Terpineol | 8006-39-1 | 0.1000 | ND | 0% |
| Fenchol | 14575-74-7 | 0.1000 | ND | 0% |
| Alpha-phellandrene | 99-83-2 | 0.1000 | ND | 0% |
| Camphor | 464-49-3 | 0.1000 | ND | 0% |

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| Compound | CAS# | LOQ (%) | % | Relative Concentration |
|------------------|------------|---------|----|------------------------|
| 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 | | 0.1000 | ND | |
| 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.

Foreign Matter by Microscopy**Pass**

Analysis Date: 03/25/2024 3:46 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.

Moisture LWG**Pass**

Analysis Date: 03/25/2024 3:46 pm

| Compound | LOQ (%) | Limits (%) | Result (%) | Status |
|----------|---------|------------|------------|--------|
| Moisture | 1.2 | 5 - 15 | 9.9 | 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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**Sample #: 4121****MAC x Cruffin 1g****Water Activity****Pass**

Analysis Date: 03/25/2024 3:46 pm

| Compound | LOQ (Aw) | Limits (Aw) | Result (Aw) | Status |
|----------------|----------|-------------|-------------|--------|
| Water Activity | 0.05 | 0.65 | 0.41 | 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: 03/29/2024 10:56 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 |
| 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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MAC x Cruffin 1g

Pesticides by LCMSMS

Pass

Analysis Date: 03/29/2024 10:56 am

| 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 |
| 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 |
| Flonicamid | 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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**Sample #: 4121****MAC x Cruffin 1g****Pesticides by LCMSMS****Pass**

Analysis Date: 03/29/2024 10:56 am

| 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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**Sample #: 4121****MAC x Cruffin 1g****Mycotoxins by LCMSMS****Pass**

Analysis Date: 03/29/2024 10:56 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: 03/26/2024 9:15 am

| Compound | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|----------|------------|---------------|---------------|--------|
| Antimony | 0.0100 | 2.00 | ND | Pass |
| Arsenic | 0.00100 | 0.200 | 0.0521 | Pass |
| Cadmium | 0.00150 | 0.300 | 0.0593 | Pass |
| Chromium | 0.280 | 110 | ND | Pass |
| Copper | 0.0750 | 30.0 | 9.38 | Pass |
| Lead | 0.00250 | 0.500 | 0.245 | Pass |
| Mercury | 0.000500 | 0.100 | ND | Pass |
| Nickel | 0.0100 | 5.00 | 0.742 | Pass |

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

Micro by Petri & qPCR**Pass**

Analysis Date: 03/27/2024 8:38 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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MAC x Cruffin 1g

Micro by Petri & qPCR

Pass

Analysis Date: 03/27/2024 8:38 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 | | 36000 | Pass |
| Total Yeast & Mold | 10 | | 3400 | 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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