

420

**ECNY**  
 EMERALD CITY NY

 Cannabinoid  
 Manufacturer

**Emerald City**

 46 Forster Rd  
 hopewell Jct NY 12533  
 GreenSpectrumsCBD@gmail.com  
 914-380-0449  
 License #: OCM-AUCP-22-000023

**Certificate of Analysis**

Final



Date Released: 6/4/2024 4:46:33PM

Report #: 17021

**Black Currant**

Sample #: 4900, Weight: 603.00g, Unit Count:

Order #: X240529-0003

Category/Type: Ingestible, Edibles

Date Collected: 5/29/2024 6:53:10PM

Date Received: 5/30/2024 10:11:18AM

Regulator Sample ID: RVBC102

Regulator Source Package ID: RVBC102

Regulator Batch ID: RVBC102

Size: 1196Units, Unit Count:


**Total Cannabinoids**  
 9.228 mg/svg  
 2.587 mg/g

**Total THC**  
 4.298 mg/svg  
 1.210 mg/g

**Total CBD**  
 2.385 mg/svg  
 0.6682 mg/g

**Total Terpenes**  
 0.0 %

**Heavy Metals**  
 PASS

**Microbials**  
 PASS

**Residual Solvents**  
 PASS

**Pesticides**  
 PASS

**Mycotoxins**  
 PASS

**Water Activity**  
 PASS

**Potency Analysis by HPLC**
Total Cannabinoids: **9.228 mg/svg - 2.587 mg/g**Total THC: **4.298 mg/svg - 1.210 mg/g**Total CBD: **2.385 mg/svg - 0.6682 mg/g**

Date Completed: 05/31/2024 2:10PM

| Compound   | CAS#       | LOQ<br>(mg/svg) | mg/svg  | mg/g    | Relative Concentration |
|------------|------------|-----------------|---------|---------|------------------------|
| d9-THC     | 1972-08-3  | 0.01000         | 4.298   | 1.210   |                        |
| CBD        | 13956-29-1 | 0.01000         | 2.374   | 0.6682  |                        |
| CBN        | 521-35-7   | 0.01000         | 2.151   | 0.6056  |                        |
| CBG        | 25654-31-3 | 0.01000         | 0.2888  | 0.08128 |                        |
| CBC        | 20675-51-8 | 0.01000         | 0.07665 | 0.02158 |                        |
| THCV       | 31262-37-0 | 0.01000         | 0.02610 | ND      |                        |
| CBDa       | 1244-58-2  | 0.01000         | 0.01305 | ND      |                        |
| THCa       | 23978-85-0 | 0.01000         | ND      | ND      |                        |
| d8-THC     | 5957-75-5  | 0.01000         | ND      | ND      |                        |
| d10/R9-THC | 95543-62-7 | 0.01000         | ND      | ND      |                        |
| d10/S9-THC | 95588-87-7 | 0.01000         | ND      | ND      |                        |
| CBDV       | 24274-48-4 | 0.01000         | ND      | ND      |                        |
| CBGa       | 25555-57-1 | 0.01000         | ND      | ND      |                        |

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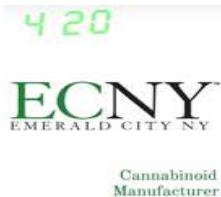
If sampled by **Keystone State Testing**, sampling followed **SOP-P-NY500** at the client facility listed above.


**Keystone State Testing of New York**  
 1809 Vestal Pkwy E

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**Sample #: 4900**

**Black Currant**

**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.

## Terpenes by HS-GC-MS

Date Completed: 05/30/2024 1:59PM

| Compound            | CAS#       | LOQ (%) | %  | Relative Concentration |
|---------------------|------------|---------|----|------------------------|
| Beta-myrcene        | 123-35-3   | 0.1000  | ND |                        |
| Beta-caryophyllene  | 87-44-5    | 0.1000  | ND |                        |
| Limonene            | 5989-27-5  | 0.1000  | ND |                        |
| Alpha-pinene        | 80-56-8    | 0.1000  | ND |                        |
| Alpha-humulene      | 6753-98-6  | 0.1000  | ND |                        |
| Linalool            | 78-70-6    | 0.1000  | ND |                        |
| Beta-pinene         | 127-91-3   | 0.1000  | ND |                        |
| Terpinolene         | 586-62-9   | 0.1000  | ND |                        |
| Borneol             | 464-45-9   | 0.1000  | ND |                        |
| Ocimene             | 13877-91-3 | 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 |                        |

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**Sample #: 4900**

**Black Currant**

| Compound           | CAS#       | LOQ (%) | %  | Relative Concentration |
|--------------------|------------|---------|----|------------------------|
| Alpha-phellandrene | 99-83-2    | 0.1000  | ND |                        |
| Farnesene          | 502-61-4   | 0.1000  | ND |                        |
| Camphor            | 464-49-3   | 0.1000  | ND |                        |
| 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.

## Water Activity

**Pass**

Analysis Date: 05/30/2024 11:36 am

| Compound       | LOQ (Aw) | Limits (Aw) | Result (Aw) | Status |
|----------------|----------|-------------|-------------|--------|
| Water Activity | 0.05     | 0.85        | 0.61        | 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: 06/03/2024 11:03 am

| Compound  | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|-----------|------------|---------------|---------------|--------|
| Abamectin | 0.0100     | 0.500         | ND            | Pass   |

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**Black Currant**
**Pesticides by LCMSMS**
**Pass**
**Analysis Date: 06/03/2024 11:03 am**

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

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Final


**Sample #: 4900**
**Black Currant**
**Pesticides by LCMSMS**
**Pass**

Analysis Date: 06/03/2024 11:03 am

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

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Final


**Sample #: 4900**
**Black Currant**
**Pesticides by LCMSMS**
**Pass**
**Analysis Date: 06/03/2024 11:03 am**

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

**Residual Solvents by HS-GC-MS**
**Pass**
**Analysis Date: 05/30/2024 11:09 am**

| Compound           | LOQ (ppm) | Limits (ppm) | Result (ppm) | Status |
|--------------------|-----------|--------------|--------------|--------|
| 1,2-Dichloroethane | 0.0500    | 5.00         | ND           | Pass   |
| Acetone            | 50.00     | 5000         | ND           | Pass   |
| Acetonitrile       | 50.00     | 410          | ND           | Pass   |
| Benzene            | 0.5000    | 2.00         | ND           | Pass   |
| Butanes Total      | 25.00     | 5000         | ND           | Pass   |

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Final


**Sample #: 4900**
**Black Currant**
**Residual Solvents by HS-GC-MS**
**Pass**

Analysis Date: 05/30/2024 11:09 am

| Compound                  | LOQ (ppm) | Limits (ppm) | Result (ppm) | Status |
|---------------------------|-----------|--------------|--------------|--------|
| Chloroform                | 0.5000    | 60.0         | ND           | Pass   |
| Dimethyl Sulfoxide (DMSO) | 50.00     | 5000         | ND           | Pass   |
| Ethanol                   | 50.00     | 5000         | ND           | Pass   |
| Ethyl acetate             | 50.00     | 5000         | ND           | Pass   |
| Ethyl ether               | 50.00     | 5000         | ND           | Pass   |
| Heptane                   | 50.00     | 5000         | ND           | Pass   |
| Hexanes Total             | 10.00     | 290          | ND           | Pass   |
| Isopropanol               | 50.00     | 5000         | ND           | Pass   |
| Methanol                  | 50.00     | 3000         | ND           | Pass   |
| Methylene chloride        | 50.00     | 600          | ND           | Pass   |
| Pentanes Total            | 16.70     | 5000         | ND           | Pass   |
| Propane                   | 50.00     | 5000         | ND           | Pass   |
| Toluene                   | 50.00     | 890          | ND           | Pass   |
| Total xylenes             | 25.00     | 2170         | ND           | Pass   |
| Trichloroethane (1,1,1,-) | 50.00     | 1500         | ND           | Pass   |

Comment: Residual Solvents tested by GCMS using P-NY170. Unless otherwise stated, all QC passed. "TIC" stands for Tentatively Identified Compound but not quantitated.

**Mycotoxins by LCMSMS**
**Pass**

Analysis Date: 06/03/2024 11:03 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.

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# Certificate of Analysis

Final



**Sample #: 4900**

**Black Currant**

## Heavy Metals by ICPMS

**Pass**

Analysis Date: 06/02/2024 11:20 am

| Compound | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|----------|------------|---------------|---------------|--------|
| Antimony | 0.0100     | 120           | ND            | Pass   |
| Arsenic  | 0.00100    | 1.50          | ND            | Pass   |
| Cadmium  | 0.00150    | 0.500         | 0.00189       | Pass   |
| Chromium | 0.280      | 1100          | ND            | Pass   |
| Copper   | 0.0750     | 300           | ND            | Pass   |
| Lead     | 0.00250    | 0.500         | 0.0181        | Pass   |
| Mercury  | 0.000500   | 3.00          | ND            | Pass   |
| Nickel   | 0.0100     | 20.0          | 0.0779        | Pass   |

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

## Micro by Petri & qPCR

**Pass**

Analysis Date: 06/01/2024 12:32 pm

| 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   |
| Salmonella Qualitative                    | 1           | 0              | Not Detected   | Pass   |
| Shiga Toxin-Producing E. coli Qualitative | 1           | 0              | Not Detected   | Pass   |
| Total Aerobic Bacteria                    | 10          | 10000          | <LOQ           | Pass   |
| Total Yeast & Mold                        | 10          | 1000           | <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".

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 GreenSpectrumsCBD@gmail.com  
 914-380-0449  
 License #: OCM-AUCP-22-000023

**Certificate of Analysis**

Final



Date Released: 8/25/2023 9:02:22AM

Report #: 2756

**Serenity Chews**

Sample #: 2220, Weight: 910.00g, Unit Count:

Order #: X230821-0001

Category/Type: Ingestible, Gummy

Date Collected: 8/21/2023 9:39:11AM

Date Received: 8/21/2023 9:44:44AM

Regulator Sample ID: RVBC101

Regulator Source Package ID: RVBC101

Regulator Batch ID: RVBC101

Size: 2000units, Unit Count:


**Total Cannabinoids**  
 11.26 mg/svg  
 3.214 mg/g

**Total THC**  
 5.455 mg/svg  
 1.559 mg/g

**Total CBD**  
 2.773 mg/svg  
 0.7923 mg/g

**Heavy Metals**  
 PASS

**Microbials**  
 PASS

**Residual Solvents**  
 PASS

**Pesticides**  
 PASS

**Mycotoxins**  
 PASS

**Water Activity**  
 PASS

**Potency Analysis by HPLC**
Total Cannabinoids: **11.26 mg/svg - 3.214 mg/g**Total THC: **5.455 mg/svg - 1.559 mg/g**Total CBD: **2.773 mg/svg - 0.7923 mg/g**

Date Completed: 08/22/2023 9:48AM

| Compound | CAS#       | LOQ<br>(mg/svg) | mg/svg  | mg/g    | Relative Concentration           |
|----------|------------|-----------------|---------|---------|----------------------------------|
| d9-THC   | 1972-08-3  | 0.01000         | 5.455   | 1.559   | <div style="width: 100%;"></div> |
| CBD      | 13956-29-1 | 0.01000         | 2.773   | 0.7923  | <div style="width: 70%;"></div>  |
| CBN      | 521-35-7   | 0.01000         | 2.547   | 0.7277  | <div style="width: 65%;"></div>  |
| CBG      | 25654-31-3 | 0.01000         | 0.2562  | 0.07320 | <div style="width: 5%;"></div>   |
| CBC      | 20675-51-8 | 0.01000         | 0.1669  | 0.04768 | <div style="width: 2%;"></div>   |
| THCV     | 31262-37-0 | 0.01000         | 0.04931 | 0.01409 | <div style="width: 1%;"></div>   |
| CBDV     | 24274-48-4 | 0.01000         | 0.01654 | ND      | <div style="width: 0%;"></div>   |
| THCa     | 23978-85-0 | 0.01000         | ND      | ND      | <div style="width: 0%;"></div>   |
| d8-THC   | 5957-75-5  | 0.01000         | ND      | ND      | <div style="width: 0%;"></div>   |
| d10-THC  | 95543-62-7 | 0.01000         | ND      | ND      | <div style="width: 0%;"></div>   |
| CBDa     | 1244-58-2  | 0.01000         | ND      | ND      | <div style="width: 0%;"></div>   |
| CBGa     | 25555-57-1 | 0.01000         | ND      | ND      | <div style="width: 0%;"></div>   |

**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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Final



**Sample #: 2220**

**Serenity Chews**

**Water Activity by Meter**

**Pass**

Analysis Date: 08/21/2023 1:05 pm

| Compound       | LOQ (Aw) | Limits (Aw) | Result (Aw) | Status |
|----------------|----------|-------------|-------------|--------|
| Water Activity | 0.05     | 0.85        | 0.63        | 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: 08/22/2023 9:42 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   |
| 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   |

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*Kelly Greenland*

Dr. Kelly Greenland, Lab Director



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**Certificate of Analysis**

Final


**Sample #: 2220**
**Serenity Chews**
**Pesticides by LCMSMS**
**Pass**

Analysis Date: 08/22/2023 9:42 am

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

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# Certificate of Analysis

Final


**Sample #: 2220**
**Serenity Chews**
**Pesticides by LCMSMS**
**Pass**

Analysis Date: 08/22/2023 9:42 am

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

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**Certificate of Analysis**

Final


**Sample #: 2220**
**Serenity Chews**
**Residual Solvents by HS-GC-MS**
**Pass**

Analysis Date: 08/24/2023 1:11 pm

| Compound                  | LOQ (ppm) | Limits (ppm) | Result (ppm) | Status |
|---------------------------|-----------|--------------|--------------|--------|
| 1,2-Dichloroethane        | 10.00     | 5            | ND           | Pass   |
| Acetone                   | 50.00     | 5000         | ND           | Pass   |
| Acetonitrile              | 50.00     | 410          | ND           | Pass   |
| Benzene                   | 0.5000    | 2            | ND           | Pass   |
| Butanes Total             | 25.00     | 5000         | ND           | Pass   |
| Chloroform                | 0.5000    | 60           | ND           | Pass   |
| Dimethyl Sulfoxide (DMSO) | 50.00     | 5000         | ND           | Pass   |
| Ethanol                   | 50.00     | 5000         | ND           | Pass   |
| Ethyl acetate             | 50.00     | 5000         | ND           | Pass   |
| Ethyl ether               | 50.00     | 5000         | ND           | Pass   |
| Heptane                   | 50.00     | 5000         | ND           | Pass   |
| Hexanes Total             | 10.00     | 290          | ND           | Pass   |
| Isopropanol               | 50.00     | 5000         | ND           | Pass   |
| Methanol                  | 50.00     | 3000         | 79.33        | Pass   |
| Methylene chloride        | 50.00     | 600          | ND           | Pass   |
| Pentanes Total            | 16.70     | 5000         | ND           | Pass   |
| Propane                   | 50.00     | 5000         | ND           | Pass   |
| Toluene                   | 50.00     | 890          | ND           | Pass   |
| Total xylenes             | 25.00     | 2170         | ND           | Pass   |
| Trichloroethane (1,1,1-)  | 50.00     | 1500         | ND           | Pass   |

Comment: Residual Solvents tested by GCMS using P-NY170. Unless otherwise stated, all QC passed.

**Mycotoxins by LCMSMS**
**Pass**

Analysis Date: 08/22/2023 9:42 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   |

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Final


**Sample #: 2220**
**Serenity Chews**
**Mycotoxins by LCMSMS**
**Pass**

Analysis Date: 08/22/2023 9:42 am

| Compound        | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|-----------------|------------|---------------|---------------|--------|
| 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: 08/22/2023 10:42 am

| Compound | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|----------|------------|---------------|---------------|--------|
| Antimony | 0.0100     | 120           | ND            | Pass   |
| Arsenic  | 0.00100    | 1.5           | 0.0143        | Pass   |
| Cadmium  | 0.00150    | 0.5           | 0.00231       | Pass   |
| Chromium | 0.280      | 1100          | ND            | Pass   |
| Copper   | 0.0750     | 300           | ND            | Pass   |
| Lead     | 0.00250    | 0.5           | 0.00285       | Pass   |
| Mercury  | 0.000500   | 3             | ND            | Pass   |
| Nickel   | 0.0100     | 20            | 0.0423        | Pass   |

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

**Micro by Petri & qPCR**
**Pass**

Analysis Date: 08/23/2023 10:54 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   |

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# Certificate of Analysis

Final



Sample #: 2220

Serenity Chews

## Micro by Petri & qPCR

**Pass**

Analysis Date: 08/23/2023 10:54 am

| Compound               | LOQ (CFU/g) | Limits (CFU/g) | Result (CFU/g) | Status |
|------------------------|-------------|----------------|----------------|--------|
| Total Aerobic Bacteria | 10          | 10000          | 13             | Pass   |
| Total Yeast & Mold     | 10          | 1000           | 57             | 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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