



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

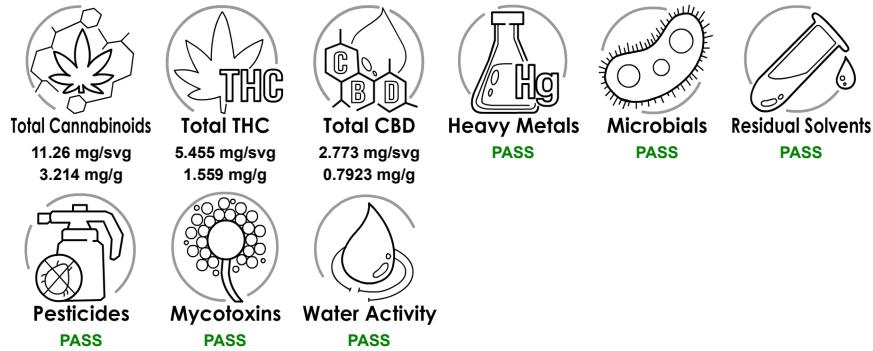
Date Received: 8/21/2023 9:44:44AM

Regulator Sample ID: RVBC101

Regulator Source Package ID: RVBC101

Regulator Batch ID: RVBC101

Size: 2000units, Unit Count:



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 (mg/svg) | mg/svg | mg/g | Relative Concentration |
|----------|------------|---------------------|---------|---------|------------------------|
| d9-THC | 1972-08-3 | 0.01000 | 5.455 | 1.559 | |
| CBD | 13956-29-1 | 0.01000 | 2.773 | 0.7923 | |
| CBN | 521-35-7 | 0.01000 | 2.547 | 0.7277 | |
| CBG | 25654-31-3 | 0.01000 | 0.2562 | 0.07320 | |
| CBC | 20675-51-8 | 0.01000 | 0.1669 | 0.04768 | |
| THCV | 31262-37-0 | 0.01000 | 0.04931 | 0.01409 | |
| CBDV | 24274-48-4 | 0.01000 | 0.01654 | ND | |
| THCa | 23978-85-0 | 0.01000 | ND | ND | |
| d8-THC | 5957-75-5 | 0.01000 | ND | ND | |
| d10-THC | 95543-62-7 | 0.01000 | ND | ND | |
| CBDa | 1244-58-2 | 0.01000 | ND | ND | |
| CBGa | 25555-57-1 | 0.01000 | 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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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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Permit #: OCM-CPL-2022-00007

Dr. Kelly Greenland, Lab Director



**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 |
| Chlufenapyr | | 0.0100 | 1 | ND | Pass |
| 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 |

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**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 |
| Fenoxy carb | | 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 |
| Metalaxyll | | 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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**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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**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 (μ g/g) | Limits (μ g/g) | Result (μ g/g) | Status |
| Aflatoxin B1 | | 0.0050 | 0.020 | ND | Pass |
| Aflatoxin B2 | | 0.0050 | 0.020 | ND | Pass |

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**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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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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