



DEA No. RA0571996
FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

GROVE, INC.
1710 WHITNEY MESA DRIVE
HENDERSON, NV 89014

Batch # 221028SG
Batch Date: 2022-10-28
Extracted From: Hemp

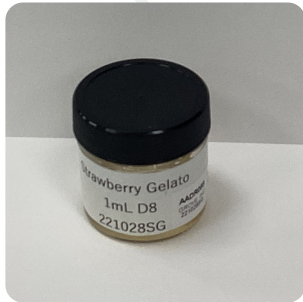
Sampling Method: MSP 7.3.1
Test Reg State: Florida

Order # GRO221102-020001
Order Date: 2022-11-02
Sample # AADR088

Sampling Date: 2022-11-03
Lab Batch Date: 2022-11-03
Completion Date: 2022-11-08

Initial Gross Weight: 64.968 g
Net Weight: 11.568 g

Number of Units: 1
Net Weight per Unit: 1000.000 mg



Product Image

| | | | | |
|-------------------|--------------------------|--------------------------------|-------------------------------|-------------------|
| Potency Tested | Terpenes Tested | Heavy Metals Passed | 2,3-Butanedione Passed | Mycotoxins Passed |
| Pesticides Passed | Residual Solvents Passed | Pathogenic Microbiology Passed | Listeria Monocytogenes Passed | Vitamin E Passed |

Delta 8/Delta 10 Potency 13 - (LCUV)

Tested SOP13.052 (LCUV)

Specimen Weight: 57.460 mg

| Analyte | LOD (%) | LOQ (%) | Result (mg/g) | (%) |
|----------------|---------|---------|---------------|---------|
| Delta-8 THC | 2.60E-5 | 0.0015 | 792.480 | 79.248% |
| CBC | 1.80E-5 | 0.0015 | <LOQ | <LOQ |
| CBD | 5.40E-5 | 0.0015 | <LOQ | <LOQ |
| CBDA | 1.00E-5 | 0.0015 | <LOQ | <LOQ |
| CBDV | 6.50E-5 | 0.0015 | <LOQ | <LOQ |
| CBG | 2.48E-4 | 0.0015 | <LOQ | <LOQ |
| CBGA | 8.00E-5 | 0.0015 | <LOQ | <LOQ |
| CBN | 1.40E-5 | 0.0015 | <LOQ | <LOQ |
| Delta-10 THC | 3.00E-6 | 0.0015 | <LOQ | <LOQ |
| Delta-9 THC | 1.30E-5 | 0.1 | <LOQ | <LOQ |
| Delta6a10a-THC | 8.47E-5 | 0.0015 | <LOQ | <LOQ |
| THCA-A | 3.20E-5 | 0.0015 | <LOQ | <LOQ |
| THCV | 7.00E-6 | 0.0015 | <LOQ | <LOQ |

Potency Summary

| | |
|--|---|
| Total Delta 8 79.248% 792.480mg | Total Delta 10 None Detected |
| Total Active THC None Detected | Total Active CBD None Detected |
| Total CBG None Detected | Total CBN None Detected |
| Other Cannabinoids None Detected | Total Cannabinoids 79.248% 792.480mg |

Terpenes Summary

| Analyte | Result (mg/g) | (%) |
|---------------------|---------------|--------|
| beta-Myrcene | 10.465 | 1.047% |
| trans-Caryophyllene | 9.692 | 0.969% |
| (R)-(+)-Limonene | 8.112 | 0.811% |
| Terpinolene | 6.719 | 0.672% |
| alpha-Pinene | 4.089 | 0.409% |
| alpha-Humulene | 2.948 | 0.295% |
| Linalool | 2.561 | 0.256% |
| alpha-Phellandrene | 2.129 | 0.213% |

Total Terpenes: 4.672%

Detailed Terpenes Analysis is on the following page

Xueli Gao
Lab Toxicologist
Ph.D., DABT

Aixia Sun
Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THC = THC + (THCVA * 0.87), CBG Total = (CBGA * 0.877) + CBG, CBN Total = (CBNA * 0.877) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta6a10a-THC + Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate, Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, , LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, *Measurement of Uncertainty = +/- 10%

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Initial Gross Weight: 64.968 g
Net Weight: 11.568 g

Number of Units: 1
Net Weight per Unit: 1000.000 mg

Pesticides FL V4
Specimen Weight: 264.800 mg

Passed
SOP13.007
(LCMS/GCMS)

**Pathogenic Microbiology
SAE (MicroArray)**

Passed
SOP13.019
(Micro Array)

Dilution Factor: 5.660

| Analyte | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|---------------------|-----------|-----------|--------------------|--------------|-------------------------|-----------|-----------|--------------------|--------------|
| Abamectin | 2.8800E-1 | 28.23 | 300 | <LOQ | Fludioxonil | 1.7400E+0 | 48 | 3000 | <LOQ |
| Acephate | 2.3000E-2 | 30 | 3000 | <LOQ | Hexythiazox | 4.9000E-2 | 30 | 2000 | <LOQ |
| Acequinocyl | 9.5640E+0 | 48 | 2000 | <LOQ | Imazalil | 2.4800E-1 | 30 | 100 | <LOQ |
| Acetamiprid | 5.2000E-2 | 30 | 3000 | <LOQ | Imidacloprid | 9.4000E-2 | 30 | 3000 | <LOQ |
| Aldicarb | 2.6000E-2 | 30 | 100 | <LOQ | Kesoxim Methyl | 4.2000E-2 | 30 | 1000 | <LOQ |
| Azoxystrobin | 8.1000E-2 | 10 | 3000 | <LOQ | Malathion | 8.2000E-2 | 30 | 2000 | <LOQ |
| Bifenazate | 1.4150E+0 | 30 | 3000 | <LOQ | Metalaxyl | 8.1000E-2 | 10 | 3000 | <LOQ |
| Bifenthrin | 4.3000E-2 | 30 | 500 | <LOQ | Methiocarb | 3.2000E-2 | 30 | 100 | <LOQ |
| Boscalid | 5.5000E-2 | 10 | 3000 | <LOQ | Methomyl | 2.2000E-2 | 30 | 100 | <LOQ |
| Captan | 6.1200E+0 | 30 | 3000 | <LOQ | methyl-Parathion | 1.7100E+0 | 10 | 100 | <LOQ |
| Carbaryl | 2.2000E-2 | 10 | 500 | <LOQ | Mevinphos | 2.1500E+0 | 10 | 100 | <LOQ |
| Carbofuran | 3.4000E-2 | 10 | 100 | <LOQ | Myclobutanil | 1.0290E+0 | 30 | 3000 | <LOQ |
| Chlorantraniliprole | 3.3000E-2 | 10 | 3000 | <LOQ | Naled | 9.5000E-2 | 30 | 500 | <LOQ |
| Chlordane | 1.0000E+1 | 10 | 100 | <LOQ | Oxamyl | 2.5000E-2 | 30 | 500 | <LOQ |
| Chlorfenapyr | 3.4000E-2 | 30 | 100 | <LOQ | Paclobutrazol | 6.5000E-2 | 30 | 100 | <LOQ |
| Chlomequat Chloride | 1.0800E-1 | 10 | 3000 | <LOQ | Pentachloronitrobenzene | 1.3200E+0 | 10 | 200 | <LOQ |
| Chlorpyrifos | 3.5000E-2 | 30 | 100 | <LOQ | Permethrin | 3.4300E-1 | 30 | 1000 | <LOQ |
| Clofentezine | 1.1900E-1 | 30 | 500 | <LOQ | Phosmet | 8.2000E-2 | 30 | 200 | <LOQ |
| Coumaphos | 3.7700E+0 | 48 | 100 | <LOQ | Piperonylbutoxide | 2.9000E-2 | 30 | 3000 | <LOQ |
| Cyfluthrin | 3.1100E+0 | 30 | 1000 | <LOQ | Prallethrin | 7.9800E-1 | 30 | 400 | <LOQ |
| Cypermethrin | 1.4490E+0 | 30 | 1000 | <LOQ | Propiconazole | 7.0000E-2 | 30 | 1000 | <LOQ |
| Daminozide | 8.8500E-1 | 30 | 100 | <LOQ | Propoxur | 4.6000E-2 | 30 | 100 | <LOQ |
| Diazinon | 4.4000E-2 | 30 | 200 | <LOQ | Pyrethrins | 2.3593E+1 | 30 | 1000 | <LOQ |
| Dichlorvos | 2.1820E+0 | 30 | 100 | <LOQ | Pyridaben | 3.2000E-2 | 30 | 3000 | <LOQ |
| Dimethoate | 2.1000E-2 | 30 | 100 | <LOQ | Spinetoram | 8.0000E-2 | 10 | 3000 | <LOQ |
| Dimethomorph | 5.8300E+0 | 48 | 3000 | <LOQ | Spinosad | 8.8000E-2 | 30 | 3000 | <LOQ |
| Ethoprophos | 3.6000E-1 | 30 | 100 | <LOQ | Spiromesifen | 2.6100E-1 | 30 | 3000 | <LOQ |
| Etofenprox | 1.1600E-1 | 30 | 100 | <LOQ | Spirotetramat | 8.9000E-2 | 30 | 3000 | <LOQ |
| Etoxazole | 9.5000E-2 | 30 | 1500 | <LOQ | Spiroxamine | 1.3100E-1 | 30 | 100 | <LOQ |
| Fenhexamid | 5.1000E-1 | 10 | 3000 | <LOQ | Tebuconazole | 6.7000E-2 | 30 | 1000 | <LOQ |
| Fenoxycarb | 1.0700E-1 | 30 | 100 | <LOQ | Thiacloprid | 6.4000E-2 | 30 | 100 | <LOQ |
| Fenpyroximate | 1.3800E-1 | 30 | 2000 | <LOQ | Thiamethoxam | 5.0000E-2 | 30 | 1000 | <LOQ |
| Fipronil | 1.0700E-1 | 30 | 100 | <LOQ | Trifloxystrobin | 3.7000E-2 | 30 | 3000 | <LOQ |
| Fonicamid | 5.1700E-1 | 30 | 2000 | <LOQ | | | | | |

Specimen Weight: 1036.940 mg

Dilution Factor: 1.000

| Analyte | Result (cfu/g) | Analyte | Result (cfu/g) |
|-----------------------|----------------|---------------------|----------------|
| Aspergillus flavus | Absence in 1g | Aspergillus terreus | Absence in 1g |
| Aspergillus fumigatus | Absence in 1g | Salmonella | Absence in 1g |
| Aspergillus niger | Absence in 1g | STEC E. Coli | Absence in 1g |



2,3-butanedione(Diacetyl)
Specimen Weight: 305.200 mg

Passed
SOP13.039
(GCMS)

Dilution Factor: 500.000

| Analyte | LOD (ppm) | LOQ (ppm) | Result (ppm) |
|-----------------|-----------|-----------|--------------|
| 2,3-Butanedione | .024 | 0.024 | <LOQ |



Listeria Monocytogenes
Specimen Weight: 990.620 mg

Passed
SOP13.032
(qPCR)

Dilution Factor: 1.000

| Analyte | Action Level (cfu/g) | Result |
|------------------------|----------------------|---------------|
| Listeria Monocytogenes | 1 | Absence in 1g |



Vitamin E (Tocopheryl Acetate)
Specimen Weight: 264.800 mg

Passed
SOP13.007 (LC-MS)

Dilution Factor: 5.660

| Analyte | LOD (ppb) | Result (ppb) |
|---------------------------------------|-----------|--------------|
| Tocophery acetate (vitamin E acetate) | .705 | <LOQ |

Xueli Gao Lab Toxicologist
Ph.D., DABT

Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



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Initial Gross Weight: 64.968 g
Net Weight: 11.568 g

Number of Units: 1
Net Weight per Unit: 1000.000 mg



Terpenes

Specimen Weight: 57.460 mg

Tested
SOP13.045 (GC/GCMS)

Dilution Factor: 20.000

| Analyte | LOQ (%) | Result (mg/g) | (%) | Analyte | LOQ (%) | Result (mg/g) | (%) |
|---------------------|---------|---------------|-------|------------------|---------|---------------|-----|
| beta-Myrcene | 0.002 | 10.465 | 1.047 | Eucalyptol | 0.002 | <LOQ | |
| trans-Caryophyllene | 0.002 | 9.692 | 0.969 | Farnesene | 0.002 | <LOQ | |
| (R)-(+)-Limonene | 0.002 | 8.112 | 0.811 | Fenchone | 0.002 | <LOQ | |
| Terpinolene | 0.002 | 6.719 | 0.672 | Fenchyl Alcohol | 0.002 | <LOQ | |
| alpha-Pinene | 0.002 | 4.089 | 0.409 | Gamma-Terpinene | 0.002 | <LOQ | |
| alpha-Humulene | 0.002 | 2.948 | 0.295 | Geraniol | 0.002 | <LOQ | |
| Linalool | 0.002 | 2.561 | 0.256 | Geranyl acetate | 0.002 | <LOQ | |
| alpha-Phellandrene | 0.002 | 2.129 | 0.213 | Guaiol | 0.002 | <LOQ | |
| (+)-Cedrol | 0.002 | <LOQ | | Hexahydrothymol | 0.002 | <LOQ | |
| 3-Carene | 0.002 | <LOQ | | Isobomeol | 0.002 | <LOQ | |
| alpha-Bisabolol | 0.002 | <LOQ | | Isopulegol | 0.002 | <LOQ | |
| alpha-Cedrene | 0.002 | <LOQ | | Nerol | 0.002 | <LOQ | |
| alpha-Terpinene | 0.002 | <LOQ | | Ocimene | 0.00033 | <LOQ | |
| beta-Pinene | 0.002 | <LOQ | | Pulegone | 0.002 | <LOQ | |
| Bomeol | 0.004 | <LOQ | | Sabinene | 0.002 | <LOQ | |
| Camphene | 0.002 | <LOQ | | Sabinene Hydrate | 0.002 | <LOQ | |
| Camphors | 0.006 | <LOQ | | Total Terpeneol | 0.00126 | <LOQ | |
| Caryophyllene oxide | 0.002 | <LOQ | | trans-Nerolidol | 0.002 | <LOQ | |
| cis-Nerolidol | 0.002 | <LOQ | | Valencene | 0.002 | <LOQ | |

Total Terpenes: 4.672%



Residual Solvents - FL (CBD)

Specimen Weight: 305.200 mg

Passed
SOP13.039 (GCMS)

Dilution Factor: 500.000

| Analyte | LOD (ppm) | LOQ (ppm) | Action Level (ppm) | Result (ppm) | Analyte | LOD (ppm) | LOQ (ppm) | Action Level (ppm) | Result (ppm) |
|--------------------|-----------|-----------|--------------------|--------------|--------------------|-----------|-----------|--------------------|--------------|
| 1,1-Dichloroethene | 0.0094 | 0.16 | 8 | <LOQ | Heptane | 0.0013 | 1.39 | 5000 | <LOQ |
| 1,2-Dichloroethane | 0.0003 | 0.04 | 5 | <LOQ | Hexane | 0.068 | 1.17 | 290 | <LOQ |
| Acetone | 0.015 | 2.08 | 5000 | <LOQ | Isopropyl alcohol | 0.0048 | 1.39 | 500 | <LOQ |
| Acetonitrile | 0.06 | 1.17 | 410 | <LOQ | Methanol | 0.0005 | 0.69 | 3000 | <LOQ |
| Benzene | 0.0002 | 0.02 | 2 | <LOQ | Methylene chloride | 0.0029 | 2.43 | 600 | <LOQ |
| Butanes | 0.4167 | 2.5 | 2000 | <LOQ | Pentane | 0.037 | 2.08 | 5000 | <LOQ |
| Chloroform | 0.0001 | 0.04 | 60 | <LOQ | Propane | 0.031 | 5.83 | 2100 | <LOQ |
| Ethanol | 0.0021 | 2.78 | 5000 | <LOQ | Toluene | 0.0009 | 2.92 | 890 | <LOQ |
| Ethyl Acetate | 0.0012 | 1.11 | 5000 | 177.735 | Total Xylenes | 0.0001 | 2.92 | 2170 | <LOQ |
| Ethyl Ether | 0.0049 | 1.39 | 5000 | <LOQ | Trichloroethylene | 0.0014 | 0.49 | 80 | <LOQ |
| Ethylene Oxide | 0.0038 | 0.1 | 5 | <LOQ | | | | | |

Xueli Gao
Ph.D., DABT
Lab Toxicologist

Aixia Sun
D.H.Sc., M.Sc., B.Sc., MT (AAB)
Lab Director/Principal Scientist



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Net Weight per Unit: 1000.000 mg



Mycotoxins

Specimen Weight: 264.800 mg

Passed
SOP13.007 (LCMS)

Dilution Factor: 5.660

| Analyte | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|-----------|--------------------|--------------|--------------|-----------|-----------|--------------------|--------------|
| Aflatoxin B1 | 3.0400E-1 | 6 | 20 | <LOQ | Aflatoxin G2 | 2.7100E-1 | 6 | 20 | <LOQ |
| Aflatoxin B2 | 7.7000E-2 | 6 | 20 | <LOQ | Ochratoxin A | 7.5400E-1 | 12 | 20 | <LOQ |
| Aflatoxin G1 | 3.0400E-1 | 6 | 20 | <LOQ | | | | | |



Heavy Metals

Specimen Weight: 245.190 mg

Passed
SOP13.048 (ICP-MS)

Dilution Factor: 203

| Analyte | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|-----------|--------------------|--------------|--------------|-----------|-----------|--------------------|--------------|
| Arsenic (As) | 4.83 | 100 | 1500 | <LOQ | Lead (Pb) | 11.76 | 100 | 500 | <LOQ |
| Cadmium (Cd) | .64 | 100 | 500 | <LOQ | Mercury (Hg) | .58 | 100 | 3000 | <LOQ |

Xueli Gao
Xueli Gao Lab Toxicologist
Ph.D., DABT

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



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