



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

Certificate of Analysis

Compliance Test

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045

Batch # EF GRAPE 001
Batch Date: 2022-05-18
Extracted From: HEMP

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Order # TOP220518-050001
Order Date: 2022-05-18
Sample # AACV522

Sampling Date: 2022-05-25
Lab Batch Date: 2022-05-25
Completion Date: 2022-05-28

Initial Gross Weight: 196.700 g

Number of Units: 2
Net Weight per Unit: 500.000 mg



Product Image

| | | | | |
|------------------------|--------------------------------------|--------------------------|--------------------------|---------------------------------|
| Potency Tested | Heavy Metals Passed | Mycotoxins Passed | Pesticides Passed | Residual Solvents Passed |
| Moisture Tested | Listeria Monocytogenes Passed | Pathogenic Passed | | |

Delta 8/Delta 10 Potency 12

Specimen Weight: 202.980 mg

Tested
SOP13.043 (LCUV)

Pieces For Panel: 5

| Analyte | LOD (%) | LOQ (%) | Result (mg/g) | (%) |
|--------------|----------|---------|---------------|--------|
| Delta-8 THC | 0.000026 | 0.001 | 136.200 | 13.620 |
| CBDA | 0.00001 | 0.001 | 94.580 | 9.458 |
| CBD | 0.000054 | 0.001 | 10.000 | 1.000 |
| Delta-10 THC | 0.000003 | 0.001 | 8.230 | 0.823 |
| THCA | 0.000032 | 0.001 | 2.900 | 0.290 |
| CBGA | 0.00008 | 0.001 | 1.900 | 0.190 |
| CBC | 0.000018 | 0.001 | 1.710 | 0.171 |
| CBG | 0.000248 | 0.001 | 0.300 | 0.030 |
| CBN | 0.000014 | 0.001 | 0.160 | 0.016 |
| Delta-9 THC | 0.000013 | 0.1 | <LOQ | <LOQ |
| CBDV | 0.000065 | 0.001 | <LOQ | <LOQ |
| THCV | 0.000007 | 0.001 | <LOQ | <LOQ |

Potency Summary

| | | | |
|-------------------------------------|----------|--------------------------------------|-----------|
| Total Delta 8 13.620% | 68.100mg | Total Delta 10 0.823% | 4.120mg |
| Total THC 0.255% | 1.280mg | Total CBD 9.295% | 46.480mg |
| Total CBG 0.196% | 0.980mg | Total CBN 0.016% | 0.080mg |
| Other Cannabinoids 0.171% | 0.860mg | Total Cannabinoids 24.375% | 121.880mg |

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Aixia Sun
Aixia Sun Lab Director/Principal Scientist
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Definitions and Abbreviations used in this report: Total CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), Total THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (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 THCV + CBL + 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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Sampling Date: 2022-05-25
Lab Batch Date: 2022-05-25
Completion Date: 2022-05-28

Initial Gross Weight: 196.700 g

Number of Units: 2
Net Weight per Unit: 500.000 mg

Pesticides FL V4

Specimen Weight: 271.300 mg

Passed
SOP13.007
(LCMS/GCMS)

Dilution Factor: 5.529

| Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|------------------------|-----------|--------------------|--------------|--------------------------|-----------|--------------------|--------------|
| Abamectin | 28.23 | 300 | <LOQ | Fludioxonil | 48 | 3000 | <LOQ |
| Acephate | 30 | 3000 | <LOQ | Hexythiazox | 30 | 2000 | <LOQ |
| Acequinocyl | 48 | 2000 | <LOQ | Imazalil | 30 | 100 | <LOQ |
| Acetamiprid | 30 | 3000 | <LOQ | Imidacloprid | 30 | 3000 | <LOQ |
| Aldicarb | 30 | 100 | <LOQ | Kresoxim Methyl | 30 | 1000 | <LOQ |
| Azoxystrobin | 10 | 3000 | <LOQ | Malathion | 30 | 2000 | <LOQ |
| Bifenazate | 30 | 3000 | <LOQ | Metaxyl | 10 | 3000 | <LOQ |
| Bifenthrin | 30 | 500 | <LOQ | Methiocarb | 30 | 100 | <LOQ |
| Boscalid | 10 | 3000 | <LOQ | Methomyl | 30 | 100 | <LOQ |
| Captan | 30 | 3000 | <LOQ | methyl-Parathion | 10 | 100 | <LOQ |
| Carbaryl | 10 | 500 | <LOQ | Mevinphos | 10 | 100 | <LOQ |
| Carbofuran | 10 | 100 | <LOQ | Myclobutanil | 30 | 3000 | <LOQ |
| Chlorantraniliprole | 10 | 3000 | <LOQ | Naled | 30 | 500 | <LOQ |
| Chlordane | 10 | 100 | <LOQ | Oxamyl | 30 | 500 | <LOQ |
| Chlorfenapyr | 30 | 100 | <LOQ | Pacllobutrazol | 30 | 100 | <LOQ |
| Chloromequat Chlo ride | 10 | 3000 | <LOQ | Pentachloronitro benzene | 10 | 200 | <LOQ |
| Chlorpyrifos | 30 | 100 | <LOQ | Permethrin | 30 | 1000 | <LOQ |
| Clofentezine | 30 | 500 | <LOQ | Phosmet | 30 | 200 | <LOQ |
| Coumaphos | 48 | 100 | <LOQ | Piperonylbutoxid e | 30 | 3000 | <LOQ |
| Cyfluthrin | 30 | 1000 | <LOQ | Prallethrin | 30 | 400 | <LOQ |
| Cypermethrin | 30 | 1000 | <LOQ | Propiconazole | 30 | 1000 | <LOQ |
| Daminozide | 30 | 100 | <LOQ | Propoxur | 30 | 100 | <LOQ |
| Diazinon | 30 | 200 | <LOQ | Pyrethrins | 30 | 1000 | <LOQ |
| Dichlorvos | 30 | 100 | <LOQ | Pyridaben | 30 | 3000 | <LOQ |
| Dimethoate | 30 | 100 | <LOQ | Spinetoram | 10 | 3000 | <LOQ |
| Dimethomorph | 48 | 3000 | <LOQ | Spinosad | 30 | 3000 | <LOQ |
| Ethoprophos | 30 | 100 | <LOQ | Spiromesifen | 30 | 3000 | <LOQ |
| Etofenprox | 30 | 100 | <LOQ | Spirotetramat | 30 | 3000 | <LOQ |
| Etoxazole | 30 | 1500 | <LOQ | Spiroxamine | 30 | 100 | <LOQ |
| Fenhexamid | 10 | 3000 | <LOQ | Tebuconazole | 30 | 1000 | <LOQ |
| Fenoxycarb | 30 | 100 | <LOQ | Thiacloprid | 30 | 100 | <LOQ |
| Fenpyroximate | 30 | 2000 | <LOQ | Thiamethoxam | 30 | 1000 | <LOQ |
| Fipronil | 30 | 100 | <LOQ | Trifloxystrobin | 30 | 3000 | <LOQ |
| Fonicamid | 30 | 2000 | <LOQ | | | | |

Residual Solvents - FL (CBD)

Specimen Weight: 11.400 mg

Passed
SOP13.039 (GCMS)

Dilution Factor: 1.000

| Analyte | LOQ (ppm) | Action Level (ppm) | Result (ppm) | Analyte | LOQ (ppm) | Action Level (ppm) | Result (ppm) |
|--------------------|-----------|--------------------|--------------|--------------------|-----------|--------------------|--------------|
| 1,1-Dichloroethane | 0.16 | 8 | <LOQ | Heptane | 1.39 | 5000 | <LOQ |
| 1,2-Dichloroethane | 0.04 | 5 | <LOQ | Hexane | 1.17 | 290 | <LOQ |
| Acetone | 2.08 | 5000 | <LOQ | Isopropyl alcohol | 1.39 | 500 | <LOQ |
| Acetonitrile | 1.17 | 410 | <LOQ | Methanol | 0.69 | 3000 | <LOQ |
| Benzene | 0.02 | 2 | <LOQ | Methylene chloride | 2.43 | 600 | <LOQ |
| Butanes | 2.5 | 2000 | <LOQ | Pentane | 2.08 | 5000 | <LOQ |
| Chloroform | 0.04 | 60 | <LOQ | Propane | 5.83 | 2100 | <LOQ |
| Ethanol | 2.78 | 5000 | <LOQ | Toluene | 2.92 | 890 | <LOQ |
| Ethyl Acetate | 1.11 | 5000 | <LOQ | Total Xylenes | 2.92 | 2170 | <LOQ |
| Ethyl Ether | 1.39 | 5000 | <LOQ | Trichloroethylene | 0.49 | 80 | <LOQ |
| Ethylene Oxide | 0.1 | 5 | <LOQ | | | | |

Mycotoxins

Specimen Weight: 271.300 mg

Passed
SOP13.007 (LCMS)

Dilution Factor: 5.529

| Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|--------------------|--------------|--------------|-----------|--------------------|--------------|
| Aflatoxin B1 | 6 | 20 | <LOQ | Aflatoxin G2 | 6 | 20 | <LOQ |
| Aflatoxin B2 | 6 | 20 | <LOQ | Ochratoxin A | 12 | 20 | <LOQ |
| Aflatoxin G1 | 6 | 20 | <LOQ | | | | |

Heavy Metals

Specimen Weight: 250.100 mg

Passed
SOP13.048 (ICP-MS)

Dilution Factor: 199

| Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|--------------------|--------------|--------------|-----------|--------------------|--------------|
| Arsenic (As) | 100 | 1500 | <LOQ | Lead (Pb) | 100 | 500 | 122.733 |
| Cadmium (Cd) | 100 | 500 | <LOQ | Mercury (Hg) | 100 | 3000 | <LOQ |

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Initial Gross Weight: 196.700 g

Number of Units: 2
Net Weight per Unit: 500.000 mg

Pathogenic SAE (qPCR) **Passed**
SOP13.010 (qPCR)

Specimen Weight: 277.940 mg

Dilution Factor: 1.000

| Analyte | Action Level (cfu/g) | Result (cfu/g) | Analyte | Action Level (cfu/g) | Result (cfu/g) |
|--|----------------------|----------------|------------|----------------------|----------------|
| Aspergillus (Fla vus, Fumigatus, Niger, Terreus) | 1 | Absence in 1g | Salmonella | 1 | Absence in 1g |
| E.Coli | 1 | Absence in 1g | | | |

Listeria Monocytogenes **Passed**
SOP13.010 (qPCR)

Specimen Weight: 997.900 mg

Dilution Factor: 1.000

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

Moisture **Tested**
SOP13.015 (Moisture Meter)

Specimen Weight: N/A Dilution Factor: 1.000

| Analyte | Action Level (%) | Result (%) |
|----------|------------------|------------|
| Moisture | 15 | 7.390 |

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