



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

Certificate of Analysis

Compliance Test

HAPPY FRUIT
6500 S. QUEBEC ST.
CENTENNIAL, CO 80111

Batch # N01633
Batch Date: 2022-03-01
Extracted From: Hemp

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Order # HAP220414-090001
Order Date: 2022-04-14
Sample # AAC5163

Sampling Date: 2022-04-18
Lab Batch Date: 2022-04-18
Completion Date: 2022-04-24

Initial Gross Weight: 100.500 g
Net Weight: 85.200 g

Number of Units: 3
Net Weight per Unit: 28400.000 mg



Product Image

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

Delta 8/Delta 10 Potency 12

Specimen Weight: 1537.300 mg

| Analyte | LOD (%) | LOQ (%) | Result (mg/g) | (%) |
|--------------|----------|---------|---------------|-------|
| Delta-8 THC | 0.000026 | 0.001 | 12.420 | 1.242 |
| CBN | 0.000014 | 0.001 | 0.030 | 0.003 |
| Delta-10 THC | 0.000003 | 0.001 | 0.020 | 0.002 |
| CBD | 0.000054 | 0.001 | 0.010 | 0.001 |
| CBC | 0.000018 | 0.001 | <LOQ | <LOQ |
| THCA | 0.000032 | 0.001 | <LOQ | <LOQ |
| Delta-9 THC | 0.000013 | 0.001 | <LOQ | <LOQ |
| CBGA | 0.00008 | 0.001 | <LOQ | <LOQ |
| CBG | 0.000248 | 0.001 | <LOQ | <LOQ |
| CBDV | 0.000065 | 0.001 | <LOQ | <LOQ |
| CBDA | 0.000011 | 0.001 | <LOQ | <LOQ |
| THCV | 0.000007 | 0.001 | <LOQ | <LOQ |

Tested (LCUV)

Potency Summary

| | |
|--|---|
| Total Delta 8 1.242% 352.730mg | Total Delta 10 0.002% 0.570mg |
| Total THC None Detected | Total CBD 0.001% 0.280mg |
| Total CBG None Detected | Total CBN 0.003% 0.850mg |
| Other Cannabinoids None Detected | Total Cannabinoids 1.249% 354.720mg |

Terpenes Summary

| Analyte | Result (mg/g) | (%) |
|-----------------|---------------|--------|
| Hexahydrothymol | 0.143 | 0.014% |

Total Terpenes: 0.014%

Detailed Terpenes Analysis is on the following page

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)



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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Completion Date: 2022-04-24

Initial Gross Weight: 100.500 g
Net Weight: 85.200 g

Number of Units: 3
Net Weight per Unit: 28400.000 mg

Terpenes

Specimen Weight: 1914.800 mg

Tested
(GC/GCMS)

Dilution Factor: 20.000

| Analyte | LOQ (%) | Result (mg/g) | (%) | Analyte | LOQ (%) | Result (mg/g) | (%) |
|---------------------|---------|---------------|-------|---------------------|---------|---------------|------|
| Hexahydrothymol | 0.002 | 0.143 | 0.014 | (R)-(+)-Limonene | 0.002 | <LOQ | <LOQ |
| (+)-Cedrol | 0.002 | <LOQ | <LOQ | beta-Myrcene | 0.002 | <LOQ | <LOQ |
| Nerol | 0.002 | <LOQ | <LOQ | 3-Carene | 0.002 | <LOQ | <LOQ |
| Geranyl acetate | 0.002 | <LOQ | <LOQ | alpha-Bisabolol | 0.002 | <LOQ | <LOQ |
| Guaiol | 0.002 | <LOQ | <LOQ | alpha-Cedrene | 0.002 | <LOQ | <LOQ |
| Isoborneol | 0.002 | <LOQ | <LOQ | alpha-Humulene | 0.002 | <LOQ | <LOQ |
| Isopulegol | 0.002 | <LOQ | <LOQ | alpha-Phellandrene | 0.002 | <LOQ | <LOQ |
| Linalool | 0.002 | <LOQ | <LOQ | alpha-Pinene | 0.002 | <LOQ | <LOQ |
| Ocimene | 0.000 | <LOQ | <LOQ | alpha-Terpinene | 0.002 | <LOQ | <LOQ |
| Gamma-Terpinene | 0.002 | <LOQ | <LOQ | beta-Pinene | 0.002 | <LOQ | <LOQ |
| Pulegone | 0.002 | <LOQ | <LOQ | Fenchone | 0.002 | <LOQ | <LOQ |
| Sabinene | 0.002 | <LOQ | <LOQ | Borneol | 0.004 | <LOQ | <LOQ |
| Sabinene Hydrate | 0.002 | <LOQ | <LOQ | Camphene | 0.002 | <LOQ | <LOQ |
| Terpinolene | 0.002 | <LOQ | <LOQ | Camphors | 0.006 | <LOQ | <LOQ |
| Total Terpeneol | 0.001 | <LOQ | <LOQ | Caryophyllene oxide | 0.002 | <LOQ | <LOQ |
| trans-Caryophyllene | 0.002 | <LOQ | <LOQ | cis-Nerolidol | 0.002 | <LOQ | <LOQ |
| trans-Nerolidol | 0.002 | <LOQ | <LOQ | Eucalyptol | 0.002 | <LOQ | <LOQ |
| Geraniol | 0.002 | <LOQ | <LOQ | Farnesene | 0.002 | <LOQ | <LOQ |
| Fenchyl Alcohol | 0.002 | <LOQ | <LOQ | Valencene | 0.002 | <LOQ | <LOQ |

Total Terpenes: 0.014%

Mycotoxins

Specimen Weight: 251.500 mg

Passed Heavy Metals

Specimen Weight: 251.200 mg

Passed

(ICP-MS)

Dilution Factor: 5.964

| 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 | | | | |

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 | <LOQ |
| Cadmium (Cd) | 100 | 500 | <LOQ | Mercury (Hg) | 100 | 3000 | <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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Number of Units: 3
Net Weight per Unit: 28400.000 mg

Pesticides FL V4

Specimen Weight: 251.500 mg

Dilution Factor: 5.964

| 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 |
| Acetaminiprid | 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 | Metaxalyl | 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 |
| Chlorantranilprole | 10 | 3000 | <LOQ | Naled | 30 | 500 | <LOQ |
| Chlordane | 10 | 100 | <LOQ | Oxamyl | 30 | 500 | <LOQ |
| Chlorfenapyr | 30 | 100 | <LOQ | Pacllobutrazol | 30 | 100 | <LOQ |
| Chloromequat Chloride | 10 | 3000 | <LOQ | Pentachloronitrobenzene | 10 | 200 | <LOQ |
| Chlorpyrifos | 30 | 100 | <LOQ | Permethrin | 30 | 1000 | <LOQ |
| Clofentezine | 30 | 500 | <LOQ | Phosmet | 30 | 200 | <LOQ |
| Coumaphos | 48 | 100 | <LOQ | Piperonylbutoxide | 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 | | | | |

Passed
(LCMS/GCMS)

Residual Solvents - FL (CBD)

Specimen Weight: 171.100 mg

Dilution Factor: 1.000

| Analyte | LOQ (ppm) | Action Level (ppm) | Result (ppm) | Analyte | LOQ (ppm) | Action Level (ppm) | Result (ppm) |
|--------------------|-----------|--------------------|--------------|--------------------|-----------|--------------------|--------------|
| 1,1-Dichloroethene | 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 | Passed | 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 | | | | |

Passed
(GCMS)

Pathogenic SAE (qPCR)

Specimen Weight: 265.800 mg

Dilution Factor: 1.000

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

Passed
(qPCR)

Listeria Monocytogenes

Specimen Weight: 994.500 mg

Dilution Factor: 1.000

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

Passed
(qPCR)

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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