



Certificate of Analysis

R&D

Client Information:

Hectare's

819 E. Market St., Ste 101
Louisville, KY 40206

Batch # HE002
Batch Date: 2024-05-30
Extracted From: Hemp

Test Reg State: Florida

Order # HEC240530-020001
Order Date: 2024-05-30
Sample # AAFQ240

Sampling Date: 2024-06-04
Lab Batch Date: 2024-06-04
Orig. Completion Date: 2024-06-12

Volume: 355 ml

Statement of Amendment: Updated to RnD



Terpenes Tested
Heavy Metals Passed
Mycotoxins Passed
Pesticides Passed
Pathogenic Microbiology Passed

Listeria Monocytogenes Passed
Microbiology (qPCR) Passed

Product Image

Terpenes
Specimen Weight: 451.000 mg

Tested
SOP13.045 (GC/GCMS)

Dilution Factor: 3.000

| Analyte | LOQ (%) | Result (mg/g) | (%) | Analyte | LOQ (%) | Result (mg/g) | (%) |
|---------------------|---------|---------------|-------|---------------------|---------|---------------|------|
| Nerol | 0.002 | 0.100 | 0.010 | Fenchone | 0.002 | <LOQ | <LOQ |
| (+)-Cedrol | 0.002 | <LOQ | <LOQ | Fenchyl Alcohol | 0.002 | <LOQ | <LOQ |
| (R)-(+)-Limonene | 0.002 | <LOQ | <LOQ | Gamma-Terpinene | 0.002 | <LOQ | <LOQ |
| 3-Carene | 0.002 | <LOQ | <LOQ | Geraniol | 0.002 | <LOQ | <LOQ |
| alpha-Bisabolol | 0.002 | <LOQ | <LOQ | Geranyl acetate | 0.002 | <LOQ | <LOQ |
| alpha-Cedrene | 0.002 | <LOQ | <LOQ | Guaiol | 0.002 | <LOQ | <LOQ |
| alpha-Humulene | 0.002 | <LOQ | <LOQ | Hexahydrothymol | 0.002 | <LOQ | <LOQ |
| alpha-Phellandrene | 0.002 | <LOQ | <LOQ | Isoborneol | 0.002 | <LOQ | <LOQ |
| alpha-Pinene | 0.002 | <LOQ | <LOQ | Isopulegol | 0.002 | <LOQ | <LOQ |
| alpha-Terpinene | 0.002 | <LOQ | <LOQ | Linalool | 0.002 | <LOQ | <LOQ |
| beta-Myrcene | 0.002 | <LOQ | <LOQ | Ocimene | 0.00033 | <LOQ | <LOQ |
| beta-Pinene | 0.002 | <LOQ | <LOQ | Pulegone | 0.002 | <LOQ | <LOQ |
| Borneol | 0.004 | <LOQ | <LOQ | Sabinene | 0.002 | <LOQ | <LOQ |
| Camphene | 0.002 | <LOQ | <LOQ | Sabinene Hydrate | 0.002 | <LOQ | <LOQ |
| Camphors | 0.006 | <LOQ | <LOQ | Terpinolene | 0.002 | <LOQ | <LOQ |
| Caryophyllene oxide | 0.002 | <LOQ | <LOQ | Total Terpeneol | 0.00126 | <LOQ | <LOQ |
| cis-Nerolidol | 0.002 | <LOQ | <LOQ | trans-Caryophyllene | 0.002 | <LOQ | <LOQ |
| Eucalyptol | 0.002 | <LOQ | <LOQ | trans-Nerolidol | 0.002 | <LOQ | <LOQ |
| Farnesene | 0.002 | <LOQ | <LOQ | Valencene | 0.002 | <LOQ | <LOQ |

Listeria Monocytogenes
Specimen Weight: 1000.500 mg

Passed
SOP13.032 (qPCR)

Total Yeast and Mold
Specimen Weight: 520.800 mg

Passed
SOP13.017 (qPCR)

Dilution Factor: 1.000

| Analyte | Result |
|------------------------|---------------|
| Listeria Monocytogenes | Absence in 1g |

Dilution Factor: 1.000

| Analyte | Action Level (cfu/g) | Result (cfu/g) | Remark |
|------------------|----------------------|----------------|--------|
| Total Yeast/Mold | 100000 | <LOQ | Passed |

Total Terpenes: 0.010%

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 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 = 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, Total THCP = Delta8-THCP + Delta9-THCP, Total Cannabinoids = Total percentage of cannabinoids within the sample. (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, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram. ACS uses simple acceptance criteria. Passed - Analyte/microbe is not detected or is at the level below the action limit per FL rule 64ER20-39, 5K-4.036, 5K-4.034. Failed - Analyte/microbe is at the level that equal or above the action limit per FL rule 64ER20-39, 5K-4.036, 5K-4.034 Sample not received via laboratory sampling. Potency tested per FL rule 64ER20-39, 5K-4.036, 5K-4.034 and passed. Revised report- see statement of amendment above.

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Volume: 355 ml



Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1037.800 mg

Passed
SOP13.019 (Micro Array)

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 |

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Definitions are found on page 1

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Heavy Metals

Specimen Weight: 246.900 mg

Passed
SOP13.048 (ICP-MS)

Dilution Factor: 202

| 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 |



Mycotoxins

Specimen Weight: 613.400 mg

Passed
SOP13.007 (LCMS)

Dilution Factor: 2.450

| 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 | 3.8 | 20 | <LOQ |
| Aflatoxin G1 | 3.0400E-1 | 6 | 20 | <LOQ | | | | | |

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Volume: 355 ml

Pesticides

Specimen Weight: 613.400 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.450

| 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 | Kresoxim 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 | Pacllobutrazol | 6.5000E-2 | 30 | 100 | <LOQ |
| Chlormequat 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 |
| Flonicamid | 5.1700E-1 | 30 | 2000 | <LOQ | | | | | |

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