

CERTIFICATE OF ANALYSIS

* FOR QUALITY ASSURANCE PURPOSES. NOT A MICHIGAN COMPLIANCE CERTIFICATE.

PRODUCED: MAR 28, 2022

SAMPLE: FULL SPECTRUM CBD OIL - OLIVE OIL BASED 8222 (TINCTURE) // CLIENT: NUVITA CBD // BATCH: PASS



MATRIX: TINCTURE
SAMPLE ID: CAM-220324-054
COLLECTED ON: MAR 23, 2022
RECEIVED ON: MAR 23, 2022
BATCH/SAMPLE SIZE: 100 UNITS / 1 UNITS
SAMPLED BY: HANNAH HARDY
SERVING/PACKAGE SIZE: .94 G / 28.2 G

CANNABINOID OVERVIEW

CBD: 54.43 mg/srv
CBC: 3.09 mg/srv
TOTAL CANNABINOIDS: 60.28 mg/srv

BATCH RESULT: PASS

POTENCY: PASS
METALS: PASS
MICROBIAL: PASS
PESTICIDES: PASS
TERPENES: TESTED

POT-01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD // MAR 28, 2022

| ANALYTE | LIMIT | AMT | AMT | LOD/LOQ (µg/g) | PASS/FAIL | ANALYTE | LIMIT | AMT | AMT | LOD/LOQ (µg/g) | PASS/FAIL |
|--------------------------------------|-------|-----------|------------|----------------|-----------|--|-------|---------|-----------|----------------|-----------|
| CBC | | 0.329 % | 3.29 mg/g | 0.0517/0.172 | PASS | THCV | | ND | ND | 0.0699/0.233 | |
| CBD | | 5.79 % | 57.9 mg/g | 0.109/0.363 | PASS | TOTAL THC ** | | 0.219 % | 2.19 mg/g | | |
| CBDA | | ND | ND | 0.142/0.474 | PASS | TOTAL CBD ** | | 5.79 % | 57.9 mg/g | | |
| CBDV | | 0.00370 % | 0.037 mg/g | 0.0673/0.224 | PASS | CBD/SRV | | 54.4 mg | | | |
| CBG | | 0.0710 % | 0.71 mg/g | 0.0576/0.192 | PASS | Δ ⁸ + Δ ⁹ -THC/SRV | | 2.06 mg | | | PASS |
| CBGA | | ND | ND | 0.0328/0.109 | PASS | Δ ⁸ -THC/SRV | | ND | | | PASS |
| CBN | | ND | ND | 0.0848/0.283 | PASS | Δ ⁹ -THC/SRV | | 2.06 mg | | | |
| Δ ⁸ + Δ ⁹ -THC | | 0.219 % | 2.19 mg/g | | | CBD/PKG | | 1630 mg | | | |
| Δ ⁸ -THC | 10 % | ND | ND | 0.0578/0.193 | PASS | Δ ⁸ + Δ ⁹ -THC/PKG | | 61.8 mg | | | PASS |
| Δ ⁹ -THC | | 0.219 % | 2.19 mg/g | 0.102/0.34 | PASS | Δ ⁸ -THC/PKG | | ND | | | PASS |
| THCA | | ND | ND | 0.0883/0.294 | PASS | Δ ⁹ -THC/PKG | | 61.8 mg | | | |

** TOTAL THC = DELTA-8-THC + DELTA-9-THC + (THCA X 0.877)

** TOTAL CBD = CBD + (CBDA X 0.877)

TRP-013: TERPENE ANALYSIS BY GC-MS // MAR 28, 2022

| ANALYTE | AMT (%) | LOD/LOQ (µg/g) | PASS/FAIL | ANALYTE | AMT (%) | LOD/LOQ (µg/g) | PASS/FAIL |
|-------------------------------|---------|----------------|-----------|------------------------|---------|----------------|-----------|
| TOTAL TERPENES * | 0.231 % | | PASS | TRANS-β-OCIMENE | ND | 0.5/1 | PASS |
| TRANS-CARYOPHYLLENE | 0.091 % | 0.5/1 | PASS | SABINENE HYDRATE | ND | 0.5/1 | PASS |
| α-BISABOLOL | 0.056 % | 0.5/1 | PASS | Δ ³ -CARENE | ND | 0.5/1 | PASS |
| α-HUMULENE | 0.036 % | 0.5/1 | PASS | γ-TERPINENE | ND | 0.5/1 | PASS |
| GUAJOL | 0.014 % | 0.5/1 | PASS | EUCALYPTOL | ND | 0.5/1 | PASS |
| β-MYRCENE | 0.014 % | 0.5/1 | PASS | CIS-NEROLIDOL | ND | 0.5/1 | PASS |
| TRANS-NEROLIDOL | 0.007 % | 0.5/1 | PASS | CIS-β-OCIMENE | ND | 0.5/1 | PASS |
| LIMONENE | 0.006 % | 0.5/1 | PASS | CEDROL | ND | 0.5/1 | PASS |
| {1R}-ENDO-(+)-FENCHYL ALCOHOL | 0.004 % | 0.5/1 | PASS | CARYOPHYLLENE OXIDE | ND | 0.5/1 | PASS |
| LINALOOL * | 0.003 % | 0.5/1 | PASS | CAMPHOR | ND | 0.5/1 | PASS |
| ISOBORNEOL | ND | 0.5/1 | PASS | CAMPHENE | ND | 0.5/1 | PASS |
| ISOPULEGOL | ND | 0.5/1 | PASS | β-PINENE | ND | 0.5/1 | PASS |
| {+}-FENCHONE | ND | 0.5/1 | PASS | α-TERPINENE | ND | 0.5/1 | PASS |
| PULEGONE | ND | 0.5/1 | PASS | α-PINENE | ND | 0.5/1 | PASS |
| SABINENE | ND | 0.5/1 | PASS | α-PHELLANDRENE | ND | 0.5/1 | PASS |
| GERANYL ACETATE | ND | 0.5/1 | PASS | α-CEDRENE | ND | 0.5/1 | PASS |
| TERPINOLENE | ND | 0.5/1 | PASS | VALENCENE | ND | 0.5/1 | PASS |

* BEYOND SCOPE OF ACCREDITATION



RESULTS CERTIFIED BY: XIN YAN
LABORATORY DIRECTOR, CAMBIUM ANALYTICA
MAR 28, 2022

Xin Yan

RESULTS CERTIFIED BY: DOUGLAS SMITH
CHIEF SCIENTIST, CAMBIUM ANALYTICA
MAR 28, 2022

Douglas Smith



PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS // MAR 28, 2022

| ANALYTE | LIMIT | AMT (µg/g) | LOD/LOQ (µg/kg) | PASS/FAIL | ANALYTE | LIMIT | AMT (µg/g) | LOD/LOQ (µg/kg) | PASS/FAIL |
|--------------|--------|------------|-----------------|-----------|------------------|----------|------------|-----------------|-----------|
| CHLORFENAPYR | 1 µg/g | ND | 6.36/21.3 | PASS | METHYL PARATHION | 0.2 µg/g | ND | 3.25/10.9 | PASS |

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS // MAR 28, 2022

| ANALYTE | LIMIT | AMT (µg/g) | LOD/LOQ (µg/kg) | PASS/FAIL | ANALYTE | LIMIT | AMT (µg/g) | LOD/LOQ (µg/kg) | PASS/FAIL |
|----------------------|----------|------------|-----------------|-----------|------------------|----------|------------|-----------------|-----------|
| ABAMECTIN | 0.5 µg/g | ND | 73/243 | PASS | IMAZALIL | 0.2 µg/g | ND | 16.4/54.6 | PASS |
| ACEPHATE | 0.4 µg/g | ND | 17.2/57.3 | PASS | IMIDACLOPRID | 0.4 µg/g | ND | 35.9/120 | PASS |
| ACEQUINOXYL | 2 µg/g | ND | 29.8/99.2 | PASS | KRESOXIM-METHYL | 0.4 µg/g | ND | 12.5/41.8 | PASS |
| ACETAMIPRID | 0.2 µg/g | ND | 15.3/51 | PASS | MALATHION | 0.2 µg/g | ND | 16.5/55.1 | PASS |
| ALDICARB | 0.4 µg/g | ND | 44.8/149 | PASS | METALAXYL | 0.2 µg/g | ND | 18.6/61.9 | PASS |
| AZOXYSTROBIN | 0.2 µg/g | ND | 11.1/36.9 | PASS | METHIOCARB | 0.2 µg/g | ND | 14.6/48.8 | PASS |
| BIFENAZATE | 0.2 µg/g | ND | 26.5/88.3 | PASS | METHOMYL | 0.4 µg/g | ND | 9.97/33.3 | PASS |
| BIFENTHRIN | 0.2 µg/g | ND | 15.4/51.3 | PASS | MGK-264 | 0.2 µg/g | ND | 20.3/67.7 | PASS |
| BOSCALID | 0.4 µg/g | ND | 13.5/44.1 | PASS | MYCLOBUTANIL | 0.2 µg/g | ND | 20.8/69.5 | PASS |
| CARBARYL | 0.2 µg/g | ND | 12.7/42.5 | PASS | NALED | 0.5 µg/g | ND | 24.3/81 | PASS |
| CARBOFURAN | 0.2 µg/g | ND | 11.3/37.6 | PASS | OXAMYL | 1 µg/g | ND | 37.3/124 | PASS |
| CHLORANTRANIL-IPROLE | 0.2 µg/g | ND | 26/86.6 | PASS | PACLOBUTRAZOL | 0.4 µg/g | ND | 38.3/128 | PASS |
| CHLORPYRIFOS | 0.2 µg/g | ND | 26.1/87 | PASS | PERMETHRIN | 0.2 µg/g | ND | 40/133 | PASS |
| CLOFENTEZINE | 0.2 µg/g | ND | 21.3/71 | PASS | PHOSMET | 0.2 µg/g | ND | 25.3/84.3 | PASS |
| CYFLUTHRIN | 1 µg/g | ND | 40.9/136 | PASS | PRALLETHRIN | 0.2 µg/g | ND | 39.3/131 | PASS |
| CYPERMETHRIN | 1 µg/g | ND | 29.3/97.6 | PASS | PROPICONAZOLE | 0.4 µg/g | ND | 42.8/143 | PASS |
| DAMINOZIDE | 1 µg/g | ND | 25.3/84.2 | PASS | PROPOXUR | 0.2 µg/g | ND | 12.3/41 | PASS |
| DIAZINON | 0.2 µg/g | ND | 19.7/65.6 | PASS | PYRETHRINS | 1 µg/g | ND | 21.2/70.6 | PASS |
| DICHLORVOS | 1 µg/g | ND | 13.3/44.3 | PASS | PYRIDABEN | 0.2 µg/g | ND | 27.6/92.1 | PASS |
| DIMETHOATE | 0.2 µg/g | ND | 13/43.2 | PASS | SPINOSAD | 0.2 µg/g | ND | 6.23/20.8 | PASS |
| ETHOPROPHOS | 0.2 µg/g | ND | 20.2/67.3 | PASS | SPINOSAD A | | ND | 6.75/22.5 | |
| ETOFENPROX | 0.4 µg/g | ND | 15.2/50.6 | PASS | SPINOSAD D | | ND | 2.54/8.46 | |
| ETOXAZOLE | 0.2 µg/g | ND | 14.3/47.7 | PASS | SPIROMESIFEN | 0.2 µg/g | ND | 15.4/51.5 | PASS |
| FENOXYCARB | 0.2 µg/g | ND | 21.1/70.5 | PASS | SPIROTETRAMAT | 0.2 µg/g | ND | 37.5/125 | PASS |
| FENPYROXIMATE | 0.4 µg/g | ND | 46.5/155 | PASS | SPIROXAMINE | 0.4 µg/g | ND | 13/43.3 | PASS |
| FIPRONIL | 0.4 µg/g | ND | 47.7/159 | PASS | TEBUCONAZOLE | 0.4 µg/g | ND | 39.8/133 | PASS |
| FLONICAMID | 1 µg/g | ND | 23.5/78.3 | PASS | THIACLOPRID | 0.2 µg/g | ND | 16.4/54.5 | PASS |
| FLUDIOXONIL | 0.4 µg/g | ND | 11.6/38.7 | PASS | THIAMETHOXAM | 0.2 µg/g | ND | 14.5/48.3 | PASS |
| HEXYTHIAZOX | 1 µg/g | ND | 29.8/99.5 | PASS | TRIFLOXYSTROB-IN | 0.2 µg/g | ND | 19.8/66 | PASS |



COL-027: TOTAL COLIFORMS // MAR 25, 2022

| ANALYTE | LIMIT | AMT (CFU/g) | PASS/FAIL |
|-----------|-----------|-------------|-----------|
| COLIFORMS | 100 CFU/g | ND | PASS |

TYM-028: TOTAL YEAST AND MOLD // MAR 27, 2022

| ANALYTE | LIMIT | AMT (CFU/g) | PASS/FAIL |
|--------------|-------------|-------------|-----------|
| YEAST & MOLD | 10000 CFU/g | ND | PASS |

ASP-029: ASPERGILLUS SPP. // MAR 28, 2022

| ANALYTE | LIMIT | AMT (CFU/g) | PASS/FAIL | ANALYTE | LIMIT | AMT (CFU/g) | PASS/FAIL |
|-----------------------|----------------------|-------------|-----------|---------------------|----------------------|-------------|-----------|
| ASPERGILLUS FLAVUS | Any amount in 1 gram | ND | PASS | ASPERGILLUS SPP. | Any amount in 1 gram | ND | PASS |
| ASPERGILLUS FUMIGATUS | Any amount in 1 gram | ND | PASS | ASPERGILLUS TERREUS | Any amount in 1 gram | ND | PASS |
| ASPERGILLUS NIGER | Any amount in 1 gram | ND | PASS | | | | |

SAL-030: SALMONELLA // MAR 28, 2022

| ANALYTE | LIMIT | AMT (CFU/g) | PASS/FAIL |
|-----------------|----------------------|-------------|-----------|
| SALMONELLA SPP. | Any amount in 1 gram | ND | PASS |

STEC-030: SHIGA TOXIN PRODUCING E. COLI // MAR 28, 2022

| ANALYTE | LIMIT | AMT (CFU/g) | PASS/FAIL |
|-------------------------------|----------------------|-------------|-----------|
| SHIGA TOXIN-PRODUCING E. COLI | Any amount in 1 gram | ND | PASS |

MET-05: HEAVY METALS ANALYSIS BY ICP-MS // MAR 25, 2022

| ANALYTE | LIMIT | AMT (µg/g) | LOD/LOQ (µg/kg) | PASS/FAIL | ANALYTE | LIMIT | AMT (µg/g) | LOD/LOQ (µg/kg) | PASS/FAIL |
|----------|----------|------------|-----------------|-----------|---------|----------|------------|-----------------|-----------|
| ARSENIC | 1.5 µg/g | ND | 0.0448/0.5 | PASS | LEAD | 0.5 µg/g | 0.002 µg/g | 0.0169/0.5 | PASS |
| CADMIUM | 0.5 µg/g | ND | 0.0256/0.5 | PASS | MERCURY | 3 µg/g | 0.001 µg/g | 0.00439/0.05 | PASS |
| CHROMIUM | 2 µg/g | 0.003 µg/g | 0.0274/0.5 | PASS | NICKEL | | 0.005 µg/g | 0.0271/0.5 | |
| COPPER | | 0.017 µg/g | 0.0446/0.5 | | | | | | |

ACCREDITATIONS



ILAC-MRA



ISO/IEC 17025

ILAC-MRA, PJLA ACCREDITED

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS
 ABAMECTIN, ABAMECTIN BA, ABAMECTIN BB, ACEPHATE, ACEQUINOCYL, ACETAMIPRID, ALDICARB, AZOXYSTROBIN, BIFENAZATE, BIFENTHRIN, BOSCALID, CARBARYL, CARBOFURAN, CHLORANTRANILIPROLE, CHLORFENAPYR, CHLORPYRIFOS, CLOFENTEZINE, CYFLUTHRIN, CYPERMETHRIN, DAMINOZIDE, DIAZINON, DICHLORVOS, DIMETHOATE, ETHOPROPHOS, ETOFENPROX, ETOXAZOLE, FENOXYCARB, FENPYROXIMATE, FIPRONIL, FLONICAMID, FLUDIOXONIL, MGK-264, MALATHION, MALATHION A, METALAXYL, METHIOCARB, METHOMYL, METHYL PARATHION, MYCLOBUTANIL, NALED, OXAMYL, PACLOBUTRAZOL, PERMETHRIN, PERMETHRIN CIS, PERMETHRIN TRANS, PHOSMET, PRALLETHRIN, PROPICONAZOLE, PROPOXUR, PYRETHRINS, PYRETHRINS CINERIN I, PYRETHRINS CINERIN I-3, PYRETHRINS JASMOLIN I, PYRETHRINS JASMOLIN I-3, PYRETHRINS PYRETHRIN I, PYRIDABEN, SPINOSAD, SPINOSAD A, SPINOSAD D, SPIROMESIFEN, SPIROTETRAMAT, SPIROXAMINE, TEBUCONAZOLE, THIAACLOPRID, THIAMETHOXAM, TRIFLOXYSTROBIN

TRP-013: TERPENE ANALYSIS BY GC-MS

(+)-FENCHONE, (1R)-ENDO-(+)-FENCHYL ALCOHOL, CAMPHENE, CAMPHOR, CARYOPHYLLENE OXIDE, CEDROL, DELTA-3-CARENE, EUCALYPTOL, FENCHOL, GERANIOL, GERANYL ACETATE, GUAIOL, ISOBORNEOL, ISOPULEGOL, LIMONENE, NEROLIDOL, OCIMENE, PHELLANDRENE, PULEGONE, SABINENE, SABINENE HYDRATE, TERPINEOL 3, TERPINOLENE, VALENCENE, ALPHA-BISABOLOL, ALPHA-CEDRENE, ALPHA-HUMULENE, ALPHA-PHELLANDRENE, ALPHA-PINENE, ALPHA-TERPINENE, BETA-MYRCENE, BETA-PINENE, CIS-NEROLIDOL, CIS-BETA-OCIMENE, GAMMA-TERPINENE, TRANS-CARYOPHYLLENE, TRANS-NEROLIDOL, TRANS-BETA-OCIMENE

POT-01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD

CBD, CBDA, DELTA-9-THC, THCA, CBDV, THCV, CBG, CBGA, CBN, DELTA-8-THC, CBC, DELTA-8 + DELTA-9-THC, TOTAL CBD, TOTAL THC

MET-05: HEAVY METALS ANALYSIS BY ICP-MS

ARSENIC, CADMIUM, CHROMIUM, COPPER, LEAD, MERCURY, NICKEL

PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS

CHLORFENAPYR, METHYL PARATHION

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nūvitā QUALITY RELEASE

Sensory: N/A
 Visual: N/A
 Aroma: N/A
 Flavor: N/A
 Lab Report (COA): Pass
 Signature: [Signature] Release Date: 3-28-22

