

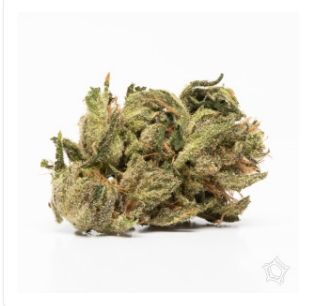
CERTIFICATE OF ANALYSIS

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

PRODUCED: SEP 30, 2022

SAMPLE: CLOUD 9 CITRUS BULK 22222-2 (INDUSTRIAL HEMP) // CLIENT: NUVITA CBD // BATCH: PASS

REFERENCE FINISHED PRODUCT LOTS 100023-(1-99), 100024-(1-99)



MATRIX: INDUSTRIAL HEMP
SAMPLE ID: CAM-220927-072
COLLECTED ON: SEP 26, 2022
RECEIVED ON: SEP 26, 2022
SAMPLE SIZE: 22.4 G
SAMPLED BY: HANNAH HARDY
RECEIVED BY: HANNAH HARDY

CANNABINOID OVERVIEW

| | |
|----------------------------|----------------|
| CBDA: | 14.5 % |
| CBD: | 1.13 % |
| TOTAL CANNABINOIDS: | 16.24 % |

BATCH RESULT: PASS

| | |
|-------------------|--------|
| POTENCY | PASS |
| METALS | PASS |
| MICROBIAL | TESTED |
| PESTICIDES | PASS |
| TERPENES | TESTED |
| WATER | TESTED |

POT-01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD // SEP 29, 2022

| ANALYTE | LIMIT | AMT | AMT | LOD/LOQ (µg/g) | PASS/FAIL | ANALYTE | LIMIT | AMT | AMT | LOD/LOQ (µg/g) | PASS/FAIL |
|---------|-----------|-------------|-------------|----------------|-----------|--------------------------------------|-------|----------|------------|----------------|-----------|
| CBC | | ND | ND | 0.0517/0.172 | N/A | Δ ⁸ + Δ ⁹ -THC | | 0.0428 % | 0.428 mg/g | | N/A |
| CBD | 1.13 % | 11.3 mg/g | 11.3 mg/g | 0.109/0.363 | N/A | Δ ⁸ -THC | 10 % | ND | ND | 0.0578/0.193 | PASS |
| CBDA | 14.5 % | 145 mg/g | 145 mg/g | 0.142/0.474 | N/A | Δ ⁹ -THC | | 0.0428 % | 0.428 mg/g | 0.102/0.340 | N/A |
| CBDV | | ND | ND | 0.0673/0.224 | N/A | THCA | | 0.293 % | 2.93 mg/g | 0.0883/0.294 | N/A |
| CBG | 0.00922 % | 0.0922 mg/g | 0.0922 mg/g | 0.0576/0.192 | N/A | THCV | | ND | ND | 0.0699/0.233 | N/A |
| CBGA | 0.269 % | 2.69 mg/g | 2.69 mg/g | 0.0328/0.109 | N/A | TOTAL THC ** | | 0.300 % | 3 mg/g | | N/A |
| CBN | | ND | ND | 0.0848/0.283 | N/A | TOTAL CBD ** | | 13.8 % | 138 mg/g | | N/A |

** 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 // SEP 30, 2022

| ANALYTE | AMT (%) | LOD/LOQ (µg/g) | PASS/FAIL | ANALYTE | AMT (%) | LOD/LOQ (µg/g) | PASS/FAIL |
|--------------------------------------|---------|----------------|-----------|-----------------------------|---------|----------------|-----------|
| TOTAL TERPENES * | 1.511 % | | N/A | CAMPHERE | ND | 0.500/1.000 | N/A |
| β-MYRCENE | 0.815 % | 0.500/1.000 | N/A | CAMPHOR | ND | 0.500/1.000 | N/A |
| CIS-β-OCIMENE | 0.191 % | 0.500/1.000 | N/A | CARYOPHYLLENE OXIDE | ND | 0.500/1.000 | N/A |
| LIMONENE | 0.107 % | 0.500/1.000 | N/A | CIS-NEROLIDOL | ND | 0.500/1.000 | N/A |
| GUAJOL | 0.091 % | 0.500/1.000 | N/A | Δ³-CARENE | ND | 0.500/1.000 | N/A |
| α-PINENE | 0.078 % | 0.500/1.000 | N/A | EUCALYPTOL | ND | 0.500/1.000 | N/A |
| α-BISABOLOL | 0.059 % | 0.500/1.000 | N/A | γ-TERPINENE | ND | 0.500/1.000 | N/A |
| TRANS-CARYOPHYLLENE | 0.053 % | 0.500/1.000 | N/A | GERANYL ACETATE | ND | 0.500/1.000 | N/A |
| LINALOOL * | 0.037 % | 0.500/1.000 | N/A | ISOBORNEOL | ND | 0.500/1.000 | N/A |
| β-PINENE | 0.027 % | 0.500/1.000 | N/A | ISOPULEGOL | ND | 0.500/1.000 | N/A |
| CEDROL | 0.019 % | 0.500/1.000 | N/A | PULEGONE | ND | 0.500/1.000 | N/A |
| (1R)-ENDO-(+)-FENCHYL ALCOHOL | 0.017 % | 0.500/1.000 | N/A | SABINENE | ND | 0.500/1.000 | N/A |
| α-HUMULENE | 0.017 % | 0.500/1.000 | N/A | SABINENE HYDRATE | ND | 0.500/1.000 | N/A |
| (+)-FENCHONE | ND | 0.500/1.000 | N/A | TERPINOLENE | ND | 0.500/1.000 | N/A |
| α-CEDRENE | ND | 0.500/1.000 | N/A | TRANS-β-OCIMENE | ND | 0.500/1.000 | N/A |
| α-PHELLANDRENE | ND | 0.500/1.000 | N/A | TRANS-NEROLIDOL | ND | 0.500/1.000 | N/A |
| α-TERPINENE | ND | 0.500/1.000 | N/A | VALENCENE | ND | 0.500/1.000 | N/A |

* BEYOND SCOPE OF ACCREDITATION

THIS REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT APPROVAL FROM CAMBIUM ANALYTICA. THE RESULTS HEREIN RELATE ONLY TO THE SAMPLE & BATCH IDENTIFIED IN THIS REPORT



RESULTS CERTIFIED BY: VERNON LALONE
LABORATORY DIRECTOR, CAMBIUM ANALYTICA
SEP 30, 2022

RESULTS CERTIFIED BY: DOUGLAS SMITH
CHIEF SCIENTIST, CAMBIUM ANALYTICA
SEP 30, 2022



PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS // SEP 29, 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 | 6.340/21.200 | PASS | METHYL PARATHION | 0.2 µg/g | ND | 3.230/10.900 | PASS |

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS // SEP 29, 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 | 72.800/243.000 | PASS | IMAZALIL | 0.2 µg/g | ND | 16.300/54.400 | PASS |
| ACEPHATE | 0.4 µg/g | ND | 17.200/57.200 | PASS | IMIDACLOPRID | 0.4 µg/g | ND | 35.800/119.000 | PASS |
| ACEQUINOCYL | 2 µg/g | ND | 29.700/98.900 | PASS | KRESOXIM-METHYL | 0.4 µg/g | ND | 12.500/41.600 | PASS |
| ACETAMIPRID | 0.2 µg/g | ND | 15.200/50.800 | PASS | MALATHION | 0.2 µg/g | ND | 16.500/54.900 | PASS |
| ALDICARB | 0.4 µg/g | ND | 44.700/149.000 | PASS | METALAXYL | 0.2 µg/g | ND | 18.500/61.700 | PASS |
| AZOXYSTROBIN | 0.2 µg/g | ND | 11.000/36.800 | PASS | METHIOCARB | 0.2 µg/g | ND | 14.600/48.600 | PASS |
| BIFENAZATE | 0.2 µg/g | ND | 26.400/88.000 | PASS | METHOMYL | 0.4 µg/g | ND | 9.940/33.100 | PASS |
| BIFENTHRIN | 0.2 µg/g | ND | 15.300/51.100 | PASS | MGK-264 | 0.2 µg/g | ND | 20.200/67.500 | PASS |
| BOSCALID | 0.4 µg/g | ND | 13.500/44.000 | PASS | MYCLOBUTANIL | 0.2 µg/g | ND | 20.800/69.300 | PASS |
| CARBARYL | 0.2 µg/g | ND | 12.700/42.400 | PASS | NALED | 0.5 µg/g | ND | 24.200/80.800 | PASS |
| CARBOFURAN | 0.2 µg/g | ND | 11.300/37.500 | PASS | OXAMYL | 1 µg/g | ND | 37.100/124.000 | PASS |
| CHLORANTRANIL-IPROLE | 0.2 µg/g | ND | 25.900/86.400 | PASS | PACLOBUTRAZOL | 0.4 µg/g | ND | 38.200/127.000 | PASS |
| CHLORPYRIFOS | 0.2 µg/g | ND | 26.000/86.700 | PASS | PERMETHRIN | 0.2 µg/g | ND | 39.800/133.000 | PASS |
| CLOFENTEZINE | 0.2 µg/g | ND | 21.200/70.800 | PASS | PHOSMET | 0.2 µg/g | ND | 25.200/84.000 | PASS |
| CYFLUTHRIN | 1 µg/g | ND | 40.800/136.000 | PASS | PRALLETHRIN | 0.2 µg/g | ND | 39.200/131.000 | PASS |
| CYPERMETHRIN | 1 µg/g | ND | 29.200/97.300 | PASS | PROPICONAZOLE | 0.4 µg/g | ND | 42.700/142.000 | PASS |
| DAMINOZIDE | 1 µg/g | ND | 25.200/83.900 | PASS | PROPOXUR | 0.2 µg/g | ND | 12.200/40.800 | PASS |
| DIAZINON | 0.2 µg/g | ND | 19.600/65.400 | PASS | PYRETHRINS | 1 µg/g | ND | 21.100/70.400 | PASS |
| DICHLORVOS | 1 µg/g | ND | 13.200/44.100 | PASS | PYRIDABEN | 0.2 µg/g | ND | 27.500/91.800 | PASS |
| DIMETHOATE | 0.2 µg/g | ND | 12.900/43.000 | PASS | SPINOSAD | 0.2 µg/g | ND | 6.210/20.700 | PASS |
| ETHOPROPHOS | 0.2 µg/g | ND | 20.100/67.100 | PASS | SPINOSAD A | | ND | 6.730/22.400 | N/A |
| ETOFENPROX | 0.4 µg/g | ND | 15.100/50.500 | PASS | SPINOSAD D | | ND | 2.540/8.440 | N/A |
| ETOXAZOLE | 0.2 µg/g | ND | 14.300/47.500 | PASS | SPIROMESIFEN | 0.2 µg/g | ND | 15.400/51.400 | PASS |
| FENOXYCARB | 0.2 µg/g | ND | 21.100/70.200 | PASS | SPIROTETRAMAT | 0.2 µg/g | ND | 37.400/125.000 | PASS |
| FENPYROXIMATE | 0.4 µg/g | ND | 46.300/154.000 | PASS | SPIROXAMINE | 0.4 µg/g | ND | 12.900/43.100 | PASS |
| FIPRONIL | 0.4 µg/g | ND | 47.500/158.000 | PASS | TEBUCONAZOLE | 0.4 µg/g | ND | 39.600/132.000 | PASS |
| FLONICAMID | 1 µg/g | ND | 23.400/78.000 | PASS | THIACLOPRID | 0.2 µg/g | ND | 16.300/54.300 | PASS |
| FLUDIOXONIL | 0.4 µg/g | ND | 11.600/38.600 | PASS | THIAMETHOXAM | 0.2 µg/g | ND | 14.400/48.100 | PASS |
| HEXYTHIAZOX | 1 µg/g | ND | 29.700/99.100 | PASS | TRIFLOXYSTROB-IN | 0.2 µg/g | ND | 19.700/65.800 | PASS |



COL-027: TOTAL COLIFORMS // SEP 29, 2022

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

STEC-030: SHIGA TOXIN PRODUCING E. COLI // SEP 29, 2022

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

SAL-030: SALMONELLA // SEP 29, 2022

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

ASP-029: ASPERGILLUS SPP. // SEP 29, 2022

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

TYM-014, TYM-028: TOTAL YEAST AND MOLD // SEP 30, 2022

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

MET-05: HEAVY METALS ANALYSIS BY ICP-MS // SEP 28, 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 | 0.045/0.500 | PASS | LEAD | 0.5 µg/g | 0.006 µg/g | 0.017/0.500 | PASS |
| CADMIUM | 0.5 µg/g | 0.069 µg/g | 0.026/0.500 | PASS | MERCURY | 3 µg/g | 0.007 µg/g | 0.004/0.050 | PASS |
| CHROMIUM | 2 µg/g | 0.037 µg/g | 0.027/0.500 | PASS | NICKEL | | 0.129 µg/g | 0.027/0.500 | N/A |
| COPPER | | 13.800 µg/g | 0.045/0.500 | N/A | | | | | |

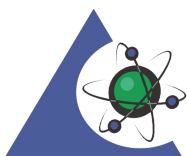
: WATER ACTIVITY // SEP 28, 2022

| ANALYTE | LIMIT | AMT (Aw) | PASS/FAIL |
|----------------|---------|----------|-----------|
| WATER ACTIVITY | 0.65 Aw | 0.564 Aw | N/A |

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, HEXYTHIAZOX, IMAZALIL, IMIDACLOPRID, KRESOXIM-METHYL, 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, GUAJOL, 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

: WATER ACTIVITY

WATER ACTIVITY

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