# Certificate of Analysis

**QA SAMPLE - INFORMATIONAL ONLY**



ICAL ID: 20221010-064
Sample: CA221010-022-039
750mg cbd/FSD peppermint-30ml
Strain: 750mg cbd/FSD peppermint-30ml
Category: Ingestible

[redacted]
Lic. #
[redacted]
Lic. #

Batch#: 0922206441
Batch Size Collected:
Total Batch Size:
Collected: 10/13/2022; Received: 10/13/2022
Completed: 10/13/2022

| Moisture | Δ9-THC | CBD | Total Cannabinoids | Total Terpenes |
|---|---|---|---|---|
| **NT** | **22.88 mg/unit** | **865.23 mg/unit** | **970.11 mg/unit** | **3.623 mg/g** |
| Water Activity | | | | |
| **NT** | | | | |

| Summary | SOP Used | Date Tested | |
|---|---|---|---|
| Batch | | | Pass |
| Cannabinoids | POT-PREP-004 | 10/11/2022 | Complete |
| Terpenes | TERP-PREP-001 | 10/11/2022 | Complete |
| Residual Solvents | RS-PREP-001 | 10/11/2022 | Pass |
| Microbials | MICRO-PREP-001 | 10/12/2022 | Pass |
| Mycotoxins | PESTMYCO-LC-PREP-001 | 10/11/2022 | Pass |
| Heavy Metals | HM-PREP-001 | 10/11/2022 | Pass |
| Pesticides | PESTMYCO-LC-PREP-001 / PEST-GC-PREP-001 | 10/11/2022 | Pass |


Scan to see results

## Cannabinoid Profile

1 Unit = bottle, 30.13 g. 1 mL = 0.91 g.

| Analyte | LOQ (mg/g) | LOD (mg/g) | % | mg/g | mg/mL | mg/unit |
|---|---|---|---|---|---|---|
| THCa | 0.0368 | 0.0123 | ND | ND | ND | ND |
| Δ9-THC | 0.0368 | 0.0053 | 0.076 | 0.76 | 0.69 | 22.88 |
| Δ8-THC | 0.0368 | 0.0055 | ND | ND | ND | ND |
| THCV | 0.0368 | 0.0048 | ND | ND | ND | ND |
| CBDa | 0.0368 | 0.0059 | ND | ND | ND | ND |
| CBD | 0.0368 | 0.0050 | 2.872 | 28.72 | 26.13 | 865.23 |

| Analyte | LOQ (mg/g) | LOD (mg/g) | % | mg/g | mg/mL | mg/unit |
|---|---|---|---|---|---|---|
| CBDV | 0.0368 | 0.0049 | 0.039 | 0.39 | 0.35 | 11.60 |
| CBN | 0.0368 | 0.0074 | 0.012 | 0.12 | 0.11 | 3.56 |
| CBGa | 0.0534 | 0.0178 | ND | ND | ND | ND |
| CBG | 0.0368 | 0.0061 | 0.058 | 0.58 | 0.53 | 17.42 |
| CBC | 0.0444 | 0.0148 | 0.164 | 1.64 | 1.49 | 49.43 |
| **Total THC** | | | **0.08** | **0.76** | **0.69** | **22.88** |
| **Total CBD** | | | **2.87** | **28.72** | **26.13** | **865.23** |
| **Total** | | | **3.22** | **32.20** | **29.30** | **970.11** |

Total THC=THCa * 0.877 + d9-THC;Total CBD = CBDa * 0.877 + CBD. LOD= Limit of Detection, LOQ= Limit of Quantitation, ND= Not Detected, NR= Not Reported. Potency is reported on a dry weight basis. Instrumentation and analysis SOPs used: Cannabinoids:UHPLC-DAD(POT-INST-005),Moisture:Moisture Analyzer(MOISTURE-001),Water Activity:Water Activity Meter(WA-INST-002), Foreign Material:Microscope(FOREIGN-001). Density measured at 19-24 °C, Water Activity measured at 0-90% RH. All QA submitted by the client, All CA State Compliance sampled using SAMPL-SOP-001.

## Terpene Profile

| Analyte | LOQ (mg/g) | LOD (mg/g) | % | mg/g |
|---|---|---|---|---|
| Menthol | 0.151 | 0.033 | 0.2964 | 2.964 |
| Eucalyptol | 0.215 | 0.072 | 0.0439 | 0.439 |
| α-Bisabolol | 0.201 | 0.067 | 0.0220 | 0.220 |
| α-Cedrene | 0.151 | 0.041 | ND | ND |
| α-Humulene | 0.151 | 0.010 | <LOQ | <LOQ |
| α-Pinene | 0.151 | 0.026 | <LOQ | <LOQ |
| α-Terpinene | 0.151 | 0.040 | ND | ND |
| α-Terpineol | 0.154 | 0.016 | <LOQ | <LOQ |
| β-Caryophyllene | 0.608 | 0.197 | <LOQ | <LOQ |
| β-Eudesmol | 0.154 | 0.050 | ND | ND |
| β-Myrcene | 0.153 | 0.016 | <LOQ | <LOQ |
| β-Pinene | 0.306 | 0.024 | <LOQ | <LOQ |
| Borneol | 0.154 | 0.023 | ND | ND |
| Camphene | 0.151 | 0.020 | ND | ND |
| Camphor | 0.306 | 0.062 | ND | ND |
| Caryophyllene Oxide | 0.602 | 0.064 | <LOQ | <LOQ |
| Cedrol | 0.151 | 0.039 | ND | ND |

| Analyte | LOQ (mg/g) | LOD (mg/g) | % | mg/g |
|---|---|---|---|---|
| cis-Nerolidol | 0.281 | 0.094 | ND | ND |
| Citronellol | 0.598 | 0.138 | ND | ND |
| δ-3-Carene | 0.306 | 0.014 | ND | ND |
| δ-Limonene | 0.306 | 0.096 | <LOQ | <LOQ |
| Fenchol | 0.152 | 0.011 | ND | ND |
| Fenchone | 0.151 | 0.007 | ND | ND |
| γ-Terpinene | 0.152 | 0.029 | ND | ND |
| Geraniol | 0.609 | 0.108 | ND | ND |
| Geranyl Acetate | 0.151 | 0.032 | ND | ND |
| Isoborneol | 0.151 | 0.020 | ND | ND |
| Linalool | 0.154 | 0.029 | ND | ND |
| (-)-Guaiol | 0.253 | 0.084 | ND | ND |
| Pulegone | 0.165 | 0.055 | <LOQ | <LOQ |
| p-Cymene | 0.155 | 0.038 | ND | ND |
| Terpinolene | 0.154 | 0.021 | ND | ND |
| trans-Nerolidol | 0.170 | 0.057 | ND | ND |
| **Total** | | | **0.3623** | **3.623** |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP TERP-INST-003.

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Josh M Swider

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Lab Director, Managing Partner
10/13/2022

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## Residual Solvent Analysis

| Category 1 | | LOQ | LOD | Limit | Status |
|---|---|---|---|---|---|
| | µg/g | µg/g | µg/g | µg/g | |
| 1,2-Dichloro-Ethane | ND | 0.264 | 0.088 | 1 | Pass |
| Benzene | ND | 0.052 | 0.017 | 1 | Pass |
| Chloroform | ND | 0.076 | 0.025 | 1 | Pass |
| Ethylene Oxide | ND | 0.579 | 0.179 | 1 | Pass |
| Methylene-Chloride | ND | 0.729 | 0.08 | 1 | Pass |
| Trichloroethene | ND | 0.145 | 0.028 | 1 | Pass |

| Category 2 | | LOQ | LOD | Limit | Status |
|---|---|---|---|---|---|
| | µg/g | µg/g | µg/g | µg/g | |
| Acetone | ND | 51.246 | 0.716 | 5000 | Pass |
| Acetonitrile | ND | 0.42 | 0.14 | 410 | Pass |
| Butane | ND | 4.849 | 0.748 | 5000 | Pass |
| Ethanol | ND | 7.575 | 2.525 | 5000 | Pass |
| Ethyl-Acetate | ND | 2.288 | 0.175 | 5000 | Pass |
| Ethyl-Ether | ND | 2.869 | 0.389 | 5000 | Pass |
| Heptane | ND | 2.859 | 0.496 | 5000 | Pass |

| Category 2 | | LOQ | LOD | Limit | Status |
|---|---|---|---|---|---|
| | µg/g | µg/g | µg/g | µg/g | |
| n-Hexane | ND | 0.281 | 0.027 | 290 | Pass |
| Isopropanol | 34.4 | 2.86 | 0.614 | 5000 | Pass |
| Methanol | 32.9 | 2.602 | 0.867 | 3000 | Pass |
| Pentane | ND | 5.075 | 1.692 | 5000 | Pass |
| Propane | ND | 9.709 | 3.236 | 5000 | Pass |
| Toluene | ND | 0.864 | 0.067 | 890 | Pass |
| Xylenes | ND | 2.572 | 0.326 | 2170 | Pass |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP RS-INST-003.

## Heavy Metal Screening

| | | LOQ | LOD | Limit | Status |
|---|---|---|---|---|---|
| | µg/g | µg/g | µg/g | µg/g | |
| Arsenic | ND | 0.009 | 0.003 | 1.5 | Pass |
| Cadmium | ND | 0.002 | 0.001 | 0.5 | Pass |
| Lead | ND | 0.004 | 0.001 | 0.5 | Pass |
| Mercury | ND | 0.014 | 0.005 | 3 | Pass |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP HM-INST-003.

## Microbiological Screening

| | Limit | Result | Status |
|---|---|---|---|
| | CFU/g | CFU/g | |
| Aspergillus flavus | | NR | NT |
| Aspergillus fumigatus | | NR | NT |
| Aspergillus niger | | NR | NT |
| Aspergillus terreus | | NR | NT |
| STEC | | Not Detected | Pass |
| Salmonella SPP | | Not Detected | Pass |

ND=Not Detected. Analytical instrumentation used:qPCR; samples analyzed according to SOP MICRO-INST-001.

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## Chemical Residue Screening

| Category 1 | | LOQ | LOD | Status |
|---|---|---|---|---|
| | µg/g | µg/g | µg/g | |
| Aldicarb | ND | 0.065 | 0.022 | Pass |
| Carbofuran | ND | 0.030 | 0.009 | Pass |
| Chlordane | ND | 0.075 | 0.025 | Pass |
| Chlorfenapyr | ND | 0.075 | 0.025 | Pass |
| Chlorpyrifos | ND | 0.053 | 0.018 | Pass |
| Coumaphos | ND | 0.056 | 0.018 | Pass |
| Daminozide | ND | 0.079 | 0.026 | Pass |
| Dichlorvos | ND | 0.067 | 0.022 | Pass |
| Dimethoate | ND | 0.036 | 0.012 | Pass |
| Ethoprophos | ND | 0.053 | 0.017 | Pass |
| Etofenprox | ND | 0.030 | 0.008 | Pass |
| Fenoxycarb | ND | 0.043 | 0.014 | Pass |
| Fipronil | ND | 0.045 | 0.015 | Pass |
| Imazalil | ND | 0.047 | 0.016 | Pass |
| Methiocarb | ND | 0.047 | 0.016 | Pass |
| Mevinphos | ND | 0.042 | 0.014 | Pass |
| Paclobutrazol | ND | 0.040 | 0.013 | Pass |
| Parathion Methyl | ND | 0.024 | 0.008 | Pass |
| Propoxur | ND | 0.047 | 0.016 | Pass |
| Spiroxamine | ND | 0.032 | 0.011 | Pass |
| Thiacloprid | ND | 0.042 | 0.014 | Pass |

| Mycotoxins | | LOQ | LOD | Limit | Status |
|---|---|---|---|---|---|
| | µg/kg | µg/kg | µg/kg | µg/kg | |
| B1 | ND | 7.88 | 2.6 | | Tested |
| B2 | ND | 6.18 | 2.04 | | Tested |
| G1 | ND | 8.99 | 2.97 | | Tested |
| G2 | ND | 5.72 | 1.89 | | Tested |
| Ochratoxin A | ND | 11.72 | 3.87 | 20 | Pass |
| Total Aflatoxins | ND | | | 20 | Pass |

| Category 2 | | LOQ | LOD | Limit | Status |
|---|---|---|---|---|---|
| | µg/g | µg/g | µg/g | µg/g | |
| Abamectin | ND | 0.030 | 0.010 | 0.3 | Pass |
| Acephate | ND | 0.050 | 0.016 | 5 | Pass |
| Acequinocyl | ND | 0.059 | 0.019 | 4 | Pass |
| Acetamiprid | ND | 0.044 | 0.015 | 5 | Pass |
| Azoxystrobin | ND | 0.029 | 0.010 | 40 | Pass |
| Bifenazate | ND | 0.035 | 0.012 | 5 | Pass |
| Bifenthrin | ND | 0.040 | 0.013 | 0.5 | Pass |
| Boscalid | ND | 0.060 | 0.020 | 10 | Pass |
| Captan | ND | 0.358 | 0.120 | 5 | Pass |
| Carbaryl | ND | 0.049 | 0.016 | 0.5 | Pass |
| Chlorantraniliprole | ND | 0.063 | 0.021 | 40 | Pass |
| Clofentezine | ND | 0.039 | 0.013 | 0.5 | Pass |
| Cyfluthrin | ND | 0.056 | 0.019 | 1 | Pass |
| Cypermethrin | ND | 0.044 | 0.015 | 1 | Pass |
| Diazinon | ND | 0.030 | 0.006 | 0.2 | Pass |
| Dimethomorph | ND | 0.042 | 0.014 | 20 | Pass |
| Etoxazole | ND | 0.030 | 0.008 | 1.5 | Pass |
| Fenhexamid | ND | 0.039 | 0.013 | 10 | Pass |
| Fenpyroximate | ND | 0.030 | 0.010 | 2 | Pass |
| Flonicamid | ND | 0.081 | 0.027 | 2 | Pass |
| Fludioxonil | ND | 0.046 | 0.015 | 30 | Pass |
| Hexythiazox | ND | 0.078 | 0.026 | 2 | Pass |
| Imidacloprid | ND | 0.071 | 0.023 | 3 | Pass |

| Category 2 | | LOQ | LOD | Limit | Status |
|---|---|---|---|---|---|
| | µg/g | µg/g | µg/g | µg/g | |
| Kresoxim Methyl | ND | 0.038 | 0.012 | 1 | Pass |
| Malathion | ND | 0.035 | 0.012 | 5 | Pass |
| Metalaxyl | ND | 0.031 | 0.010 | 15 | Pass |
| Methomyl | ND | 0.048 | 0.016 | 0.1 | Pass |
| Myclobutanil | ND | 0.055 | 0.018 | 9 | Pass |
| Naled | ND | 0.051 | 0.017 | 0.5 | Pass |
| Oxamyl | ND | 0.046 | 0.015 | 0.3 | Pass |
| Pentachloronitrobenzene | ND | 0.054 | 0.018 | 0.2 | Pass |
| Permethrin | ND | 0.030 | 0.008 | 20 | Pass |
| Phosmet | ND | 0.038 | 0.012 | 0.2 | Pass |
| Piperonyl Butoxide | ND | 0.030 | 0.008 | 8 | Pass |
| Prallethrin | ND | 0.068 | 0.023 | 0.4 | Pass |
| Propiconazole | ND | 0.059 | 0.019 | 20 | Pass |
| Pyrethrins | <LOQ | 0.030 | 0.004 | 1 | Pass |
| Pyridaben | ND | 0.035 | 0.012 | 3 | Pass |
| Spinetoram | ND | 0.030 | 0.006 | 3 | Pass |
| Spinosad | ND | 0.030 | 0.004 | 3 | Pass |
| Spiromesifen | ND | 0.042 | 0.014 | 12 | Pass |
| Spirotetramat | ND | 0.041 | 0.013 | 13 | Pass |
| Tebuconazole | ND | 0.044 | 0.014 | 2 | Pass |
| Thiamethoxam | ND | 0.055 | 0.018 | 4.5 | Pass |
| Trifloxystrobin | ND | 0.031 | 0.010 | 30 | Pass |

## Other Analyte(s):

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: LC-MS-MS & GC-MS-MS; samples analyzed according to SOPs PESTMYCO-LC-INST-004 and PEST-GC-INST-003.

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