



Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20190225-039
Sample: 1902ICA0867.2696
CBD Hemp Oil Transdermal Patch
Strain: CBD Hemp Oil Transdermal Patch
Category: Topical

Batch#: _____
Primary Size: _____
Total/Batch Size: _____
Collected: 02/28/2019; Received: 02/28/2019
Completed: 02/28/2019

| | | | | |
|-----------------------------|------------------------------|----------------------|--|------------------------------------|
| Moisture NT | $\Delta 9$ -THC ND | 38.64 mg/unit | Total Cannabinoids 39.04 mg/unit | Total Terpenes 0.00 mg/g |
| Water Activity NT | | | | |

| Summary | SOP Used | Date Tested | Pass |
|-------------------|-------------------|-------------|----------|
| Batch | | | Pass |
| Cannabinoids | SOP:003Topical | 02/26/2019 | Complete |
| Terpenes | SOP:TERP,MS,Conc1 | 02/27/2019 | Complete |
| Residual Solvents | SOP:Inhalalbe | 02/27/2019 | Pass |
| Microbials | SOP:qpcrone | 02/27/2019 | Pass |
| Mycotoxins | SOP:MYCO EX | 02/26/2019 | Pass |
| Pesticides | PEST, Topical | 02/26/2019 | Pass |
| Heavy Metals | SOP:HM001 | 02/27/2019 | Pass |
| Foreign Matter | SOP:FM-001 | 02/25/2019 | Pass |

Cannabinoid Profile

1 Unit = patch, 0.462g

| Analyte | LOQ | LOD | % | mg/g | mg/unit | Analyte | LOQ | LOD | % | mg/g | mg/unit |
|-----------------|------|------|-------|-------|---------|--------------|------|------|--------------|--------------|--------------|
| THCa | 0.01 | 0.01 | ND | ND | ND | CBDV | 0.01 | 0.01 | NR | NR | NR |
| $\Delta 9$ -THC | 0.01 | 0.01 | ND | ND | ND | CBN | 0.01 | 0.01 | 0.052 | 0.52 | 0.24 |
| $\Delta 8$ -THC | 0.01 | 0.01 | NR | NR | NR | CBGa | 0.01 | 0.01 | ND | ND | ND |
| THCV | 0.01 | 0.01 | NR | NR | NR | CBG | 0.01 | 0.01 | 0.036 | 0.36 | 0.16 |
| CBDa | 0.01 | 0.01 | ND | ND | ND | CBC | 0.01 | 0.01 | NR | NR | NR |
| CBD | 0.01 | 0.01 | 8.363 | 83.63 | 38.64 | Total | | | 8.451 | 84.51 | 39.04 |

Total THC=THCa * 0.877 + d9-THC; Total CBD = CBDa * 0.877 + CBD; NR= Not Reported, ND= Not Detected, *Reported by Dry Mass*; *analytical instrumentation used Cannabinoids:UHPLC-DAD, Moisture:Mass by Drying, Water Activity:Water Activity Meter, Foreign Material:Microscope*

Terpene Profile

| Analyte | LOQ | LOD | mg/g | Analyte | LOQ | LOD | mg/g |
|------------------------|------|------|------|---------------------|------|------|-------------|
| α -Bisabolol | 0.20 | 0.10 | ND | δ -Limonene | 0.20 | 0.10 | ND |
| α -Humulene | 0.20 | 0.10 | ND | Eucalyptol | 0.20 | 0.10 | ND |
| α -Pinene | 0.20 | 0.10 | ND | γ -Terpinene | 0.20 | 0.10 | ND |
| α -Terpinene | 0.20 | 0.10 | ND | Geraniol | 0.20 | 0.10 | ND |
| β -Caryophyllene | 0.20 | 0.10 | ND | Linalool | 0.20 | 0.10 | ND |
| β -Myrcene | 0.20 | 0.10 | ND | Ocimene | 0.20 | 0.10 | ND |
| β -Ocimene | 0.20 | 0.10 | ND | (-)-Guaiol | 0.20 | 0.10 | ND |
| β -Pinene | 0.20 | 0.10 | ND | p-Cymene | 0.20 | 0.10 | ND |
| Camphene | 0.20 | 0.10 | ND | Terpinolene | 0.20 | 0.10 | ND |
| Caryophyllene Oxide | 0.20 | 0.10 | ND | trans-Nerolidol | 0.20 | 0.10 | ND |
| cis-Nerolidol | 0.20 | 0.10 | ND | (-)-Isopulegol | | | ND |
| δ -3-Carene | 0.20 | 0.10 | ND | Total | | | 0.00 |

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less then the Limit of Quantification (LOQ), *analytical instrumentation used:HS-GC-FID-FID*



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Lab Director, Managing Partner
02/28/2019

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2 of 3

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Batch#: _____
Primary Size: _____
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Residual Solvent Analysis

| Category 1 | LOQ | LOD | Limit | Status | Category 2 | LOQ | LOD | Limit | Status | Category 2 | LOQ | LOD | Limit | Status | | | |
|---------------------|------|------|-------|--------|------------|---------------|------|-------|--------|------------|------|-------------|-------|--------|-------|--------|------|
| | µg/g | µg/g | µg/g | µg/g | | µg/g | µg/g | µg/g | µg/g | | µg/g | µg/g | µg/g | µg/g | | | |
| 1,2-Dichloro-Ethane | ND | 1.0 | 0.5 | 1.0 | Pass | Acetone | ND | 300.0 | 200.0 | 5000.0 | Pass | n-Hexane | ND | 35.0 | 20.0 | 290.0 | Pass |
| Benzene | ND | 1.0 | 0.5 | 1.0 | Pass | Acetonitrile | ND | 150.0 | 100.0 | 410.0 | Pass | Isopropanol | ND | 300.0 | 200.0 | 5000.0 | Pass |
| Chloroform | ND | 1.0 | 0.5 | 1.0 | Pass | Butane | ND | 300.0 | 200.0 | 5000.0 | Pass | Methanol | ND | 300.0 | 200.0 | 3000.0 | Pass |
| Ethylene Oxide | ND | 1.0 | 0.5 | 1.0 | Pass | Ethanol | ND | 300.0 | 200.0 | 5000.0 | Pass | Pentane | ND | 300.0 | 200.0 | 5000.0 | Pass |
| Methylene-Chloride | ND | 1.0 | 0.5 | 1.0 | Pass | Ethyl-Acetate | ND | 300.0 | 200.0 | 5000.0 | Pass | Propane | ND | 300.0 | 200.0 | 5000.0 | Pass |
| Trichloroethene | ND | 1.0 | 0.5 | 1.0 | Pass | Ethyl-Ether | ND | 300.0 | 200.0 | 5000.0 | Pass | Toluene | ND | 150.0 | 100.0 | 890.0 | Pass |
| | | | | | | Heptane | ND | 300.0 | 200.0 | 5000.0 | Pass | Xylenes | ND | 150.0 | 100.0 | 2170.0 | Pass |

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Heavy Metal Screening

| | LOQ | LOD | Limit | Status | |
|---------|------|-------|-------|--------|------|
| µg/g | µg/g | µg/g | µg/g | | |
| Arsenic | <LOQ | 0.100 | 0.063 | 1.500 | Pass |
| Cadmium | ND | 0.100 | 0.063 | 0.500 | Pass |
| Lead | ND | 0.100 | 0.063 | 0.500 | Pass |
| Mercury | ND | 0.100 | 0.063 | 3.000 | Pass |

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Microbiological Screening

| | Result | Status |
|-------------------------------|--------------|--------|
| Aspergillus flavus | NR | NT |
| Aspergillus fumigatus | NR | NT |
| Aspergillus niger | NR | NT |
| Aspergillus terreus | NR | NT |
| shiga toxin-producing E. coli | Not Detected | Pass |
| Salmonella SPP | Not Detected | Pass |

ND=Not Detected; *analytical instrumentation used:qPCR*



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Chemical Residue Screening

| Category 1 | LOQ | LOD | Status | Mycotoxins | LOQ | LOD | Limit | Status | | |
|------------------|------|-------|--------|------------|------------------|-------|-------|--------|--------|------|
| | µg/g | µg/g | µg/g | | µg/kg | µg/kg | µg/kg | | | |
| Aldicarb | ND | 0.050 | 0.030 | Pass | B1 | ND | 5.00 | 3.00 | Tested | |
| Carbofuran | ND | 0.050 | 0.030 | Pass | B2 | ND | 5.00 | 3.00 | Tested | |
| Chlordane | ND | 0.100 | 0.050 | Pass | G1 | ND | 5.00 | 3.00 | Tested | |
| Chlorfenapyr | ND | 0.100 | 0.050 | Pass | G2 | ND | 5.00 | 3.00 | Tested | |
| Chlorpyrifos | ND | 0.050 | 0.030 | Pass | Ochratoxin A | ND | 10.00 | 7.00 | 20.00 | Pass |
| Coumaphos | ND | 0.050 | 0.030 | Pass | Total Aflatoxins | ND | | 20.00 | Pass | |
| Daminozide | ND | 0.050 | 0.030 | Pass | | | | | | |
| DDVP | ND | 0.050 | 0.030 | Pass | | | | | | |
| Dimethoate | ND | 0.050 | 0.030 | Pass | | | | | | |
| Ethoprophos | ND | 0.050 | 0.030 | Pass | | | | | | |
| Etofenprox | ND | 0.050 | 0.030 | Pass | | | | | | |
| Fenoxycarb | ND | 0.050 | 0.030 | Pass | | | | | | |
| Fipronil | ND | 0.050 | 0.030 | Pass | | | | | | |
| Imazalil | ND | 0.050 | 0.030 | Pass | | | | | | |
| Methiocarb | ND | 0.050 | 0.030 | Pass | | | | | | |
| Methyl Parathion | ND | 0.100 | 0.050 | Pass | | | | | | |
| Mevinphos | ND | 0.050 | 0.030 | Pass | | | | | | |
| Paclobutrazol | ND | 0.050 | 0.030 | Pass | | | | | | |
| Propoxur | ND | 0.050 | 0.030 | Pass | | | | | | |
| Spiroxamine | ND | 0.050 | 0.030 | Pass | | | | | | |
| Thiacloprid | ND | 0.050 | 0.030 | Pass | | | | | | |

| Category 2 | LOQ | LOD | Limit | Status | Category 2 | LOQ | LOD | Limit | Status | | |
|---------------------|------|-------|-------|--------|------------|-------------------------|------|-------|--------|--------|------|
| | µg/g | µg/g | µg/g | µg/g | | µg/g | µg/g | µg/g | µg/g | | |
| Abamectin | ND | 0.050 | 0.030 | 0.300 | Pass | Kresoxim Methyl | ND | 0.050 | 0.030 | 1.000 | Pass |
| Acephate | ND | 0.050 | 0.030 | 5.000 | Pass | Malathion | ND | 0.050 | 0.030 | 5.000 | Pass |
| Acequinocyl | ND | 0.050 | 0.030 | 4.000 | Pass | Metalaxyl | ND | 0.050 | 0.030 | 15.000 | Pass |
| Acetamiprid | ND | 0.050 | 0.030 | 5.000 | Pass | Methomyl | ND | 0.450 | 0.200 | 0.100 | Pass |
| Azoxystrobin | ND | 0.050 | 0.030 | 40.000 | Pass | Myclobutanil | ND | 0.050 | 0.030 | 9.000 | Pass |
| Bifenazate | ND | 0.050 | 0.030 | 5.000 | Pass | Naled | ND | 0.100 | 0.050 | 0.500 | Pass |
| Bifenthrin | ND | 0.250 | 0.100 | 0.500 | Pass | Oxamyl | ND | 0.200 | 0.100 | 0.300 | Pass |
| Boscalid | ND | 0.050 | 0.030 | 10.000 | Pass | Pentachloronitrobenzene | ND | 0.100 | 0.050 | 0.200 | Pass |
| Captan | ND | 0.350 | 0.200 | 5.000 | Pass | Permethrin | ND | 0.250 | 0.100 | 20.000 | Pass |
| Carbaryl | ND | 0.050 | 0.030 | 0.500 | Pass | Phosmet | ND | 0.050 | 0.030 | 0.200 | Pass |
| Chlorantraniliprole | ND | 0.050 | 0.030 | 40.000 | Pass | Piperonyl Butoxide | ND | 0.250 | 0.100 | 8.000 | Pass |
| Clofentezine | ND | 0.050 | 0.030 | 0.500 | Pass | Prallethrin | ND | 0.050 | 0.030 | 0.400 | Pass |
| Cyfluthrin | ND | 0.350 | 0.250 | 1.000 | Pass | Propiconazole | ND | 0.050 | 0.030 | 20.000 | Pass |
| Cypermethrin | ND | 0.350 | 0.200 | 1.000 | Pass | Pyrethrins | ND | 0.250 | 0.100 | 1.000 | Pass |
| Diazinon | ND | 0.050 | 0.030 | 0.200 | Pass | Pyridaben | ND | 0.050 | 0.030 | 3.000 | Pass |
| Dimethomorph | ND | 0.050 | 0.030 | 20.000 | Pass | Spinetoram | ND | 0.050 | 0.030 | 3.000 | Pass |
| Etoxazole | ND | 0.050 | 0.030 | 1.500 | Pass | Spinosad | ND | 0.050 | 0.030 | 3.000 | Pass |
| Fenhexamid | ND | 0.050 | 0.030 | 10.000 | Pass | Spiromesifen | ND | 0.050 | 0.030 | 12.000 | Pass |
| Fenpyroximate | ND | 0.050 | 0.030 | 2.000 | Pass | Spirotetramat | ND | 0.050 | 0.030 | 13.000 | Pass |
| Fonicamid | ND | 0.050 | 0.030 | 2.000 | Pass | Tebuconazole | ND | 0.050 | 0.030 | 2.000 | Pass |
| Fludioxonil | ND | 0.050 | 0.030 | 30.000 | Pass | Thiamethoxam | ND | 0.250 | 0.100 | 4.500 | Pass |
| Hexythiazox | ND | 0.050 | 0.030 | 2.000 | Pass | Trifloxystrobin | ND | 0.050 | 0.030 | 30.000 | Pass |
| Imidacloprid | ND | 0.350 | 0.100 | 3.000 | Pass | | | | | | |

Unknown Analyte(s):

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