



Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20190225-041
Sample: 1902ICA0867.2698
CBD Hemp Topical Salve 25ml
Strain: CBD Hemp Topical Salve 25ml
Category: Topical

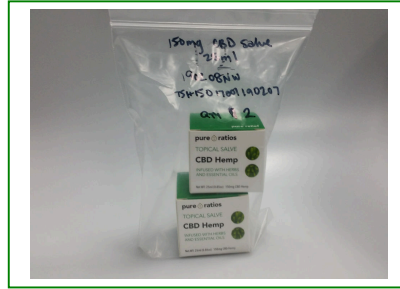
Pure Ratios
Lic. #
San Diego, CA 92110
Lic. #

Batch#:
Primary Size:
Total/Batch Size:
Collected: 03/07/2019; Received: 03/07/2019
Completed: 03/07/2019

| | | | | |
|----------------------|--------------|-----------------------|--------------------------------------|-----------------------------|
| Moisture NT | Δ9-THC NR | CBD 142.72 mg/unit | Total Cannabinoids 142.72 mg/unit | Total Terpenes 5.87 mg/g |
| Water Activity NT | | | | |

Summary

| SOP Used | Date Tested | Result |
|-------------------|---------------------|----------|
| Batch | | Pass |
| Cannabinoids | SOP:003Topical | Complete |
| Terpenes | SOP:TERPMS.Topical1 | Complete |
| Residual Solvents | SOP:NON-Inhalable | Pass |
| Microbials | SOP:qpcrone | Pass |
| Mycotoxins | SOP:PEST.002.E | Pass |
| Pesticides | PEST.Topical | Complete |
| Heavy Metals | SOP:HM001 | Pass |



Scan to see results

Cannabinoid Profile

1 Unit = container, 20.81g

| Analyte | LOQ | LOD | % | mg/g | mg/unit | Analyte | LOQ | LOD | % | mg/g | mg/unit |
|---------|------|------|-------|------|---------|--------------|------|------|--------------|-------------|---------------|
| THCa | 0.60 | 0.36 | NR | NR | NR | CBDV | 0.60 | 0.36 | NR | NR | NR |
| Δ9-THC | 0.60 | 0.36 | NR | NR | NR | CBN | 0.60 | 0.36 | NR | NR | NR |
| Δ8-THC | 0.60 | 0.36 | NR | NR | NR | CBGa | 0.60 | 0.36 | NR | NR | NR |
| THCV | 0.60 | 0.36 | NR | NR | NR | CBG | 0.60 | 0.36 | NR | NR | NR |
| CBDa | 0.60 | 0.36 | NR | NR | NR | CBC | 0.60 | 0.36 | NR | NR | NR |
| CBD | 0.60 | 0.36 | 0.686 | 6.86 | 142.72 | Total | | | 0.686 | 6.86 | 142.72 |

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-Pinene | 0.20 | 0.10 | 0.222 | 2.22 | Camphene | 0.20 | 0.10 | <LOQ | <LOQ |
| Eucalyptol | 0.20 | 0.10 | 0.179 | 1.79 | Caryophyllene Oxide | 0.20 | 0.10 | <LOQ | <LOQ |
| δ-Limonene | 0.20 | 0.10 | 0.082 | 0.82 | cis-Nerolidol | 0.20 | 0.10 | ND | ND |
| δ-3-Carene | 0.20 | 0.10 | 0.050 | 0.50 | γ-Terpinene | 0.20 | 0.10 | ND | ND |
| β-Caryophyllene | 0.20 | 0.10 | 0.030 | 0.30 | Geraniol | 0.20 | 0.10 | ND | ND |
| p-Cymene | 0.20 | 0.10 | 0.024 | 0.24 | Linalool | 0.20 | 0.10 | <LOQ | <LOQ |
| α-Bisabolol | 0.20 | 0.10 | ND | ND | Ocimene | 0.20 | 0.10 | ND | ND |
| α-Humulene | 0.20 | 0.10 | ND | ND | (-)-Guaiol | 0.20 | 0.10 | ND | ND |
| α-Terpinene | 0.20 | 0.10 | ND | ND | Terpinolene | 0.20 | 0.10 | ND | ND |
| β-Myrcene | 0.20 | 0.10 | ND | ND | trans-Nerolidol | 0.20 | 0.10 | ND | ND |
| β-Ocimene | 0.20 | 0.10 | ND | ND | (-)-Isopulegol | | | ND | ND |
| β-Pinene | 0.20 | 0.10 | ND | ND | Total | | | 0.587 | 5.87 |

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*



Infinite Chemical Analysis Labs
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San Diego, CA
(858) 623-2740
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Lic# C8-18-0000019-TEMP

Josh M Swider

Josh Swider
Lab Director, Managing Partner
03/07/2019

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This product has been tested by Infinite Chemical Analysis, LLC using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. Infinite Chemical Analysis, LLC makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Infinite Chemical Analysis, LLC.



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Pure Ratios
Lic. #
San Diego, CA 92110
Lic. #

Batch#: _____
Primary Size: _____
Total/Batch 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 | 0.5 | 1 | Pass | Acetone | ND | 300 | 200 | 5000 | Pass | n-Hexane | ND | 35 | 20 | 290 | Pass |
| Benzene | ND | 1 | 0.5 | 1 | Pass | Acetonitrile | ND | 150 | 100 | 410 | Pass | Isopropanol | ND | 300 | 200 | 5000 | Pass |
| Chloroform | ND | 1 | 0.5 | 1 | Pass | Butane | ND | 300 | 200 | 5000 | Pass | Methanol | ND | 300 | 200 | 3000 | Pass |
| Ethylene Oxide | ND | 1 | 0.5 | 1 | Pass | Ethanol | ND | 300 | 200 | 5000 | Pass | Pentane | ND | 300 | 200 | 5000 | Pass |
| Methylene-Chloride | ND | 1 | 0.5 | 1 | Pass | Ethyl-Acetate | ND | 300 | 200 | 5000 | Pass | Propane | ND | 300 | 200 | 5000 | Pass |
| Trichloroethene | ND | 1 | 0.5 | 1 | Pass | Ethyl-Ether | ND | 300 | 200 | 5000 | Pass | Toluene | ND | 150 | 100 | 890 | Pass |
| | | | | | | Heptane | ND | 300 | 200 | 5000 | Pass | Xylenes | ND | 150 | 100 | 2170 | Pass |

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Heavy Metal Screening

| | LOQ | LOD | Limit | Status | |
|---------|------|------|--------|--------|------|
| µg/g | µg/g | µg/g | µg/g | | |
| Arsenic | ND | 0.1 | 0.0625 | 1.5 | Pass |
| Cadmium | ND | 0.1 | 0.0625 | 0.5 | Pass |
| Lead | ND | 0.1 | 0.0625 | 0.5 | Pass |
| Mercury | ND | 0.1 | 0.0625 | 3 | Pass |

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:ICP-MS*

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 | |
|------------------|-------|------|--------|--------|
| | µg/g | µg/g | µg/g | |
| Aldicarb | ND | 0.05 | 0.03 | Tested |
| Carbofuran | ND | 0.05 | 0.03 | Tested |
| Chlordane | ND | 0.1 | 0.05 | Tested |
| Chlorfenapyr | ND | 0.1 | 0.05 | Tested |
| Chlorpyrifos | <LOQ | 0.05 | 0.03 | Tested |
| Coumaphos | 0.057 | 0.05 | 0.03 | Tested |
| Daminozide | ND | 0.05 | 0.03 | Tested |
| DDVP | ND | 0.05 | 0.03 | Tested |
| Dimethoate | ND | 0.05 | 0.03 | Tested |
| Ethoprophos | ND | 0.05 | 0.03 | Tested |
| Etofenprox | ND | 0.05 | 0.03 | Tested |
| Fenoxycarb | ND | 0.05 | 0.03 | Tested |
| Fipronil | ND | 0.05 | 0.03 | Tested |
| Imazalil | ND | 0.05 | 0.03 | Tested |
| Methiocarb | ND | 0.05 | 0.03 | Tested |
| Methyl Parathion | ND | 0.1 | 0.05 | Tested |
| Mevinphos | ND | 0.05 | 0.03 | Tested |
| Paclbutrazol | ND | 0.05 | 0.03 | Tested |
| Propoxur | ND | 0.05 | 0.03 | Tested |
| Spiroxamine | ND | 0.05 | 0.03 | Tested |
| Thiacloprid | ND | 0.05 | 0.03 | Tested |

| Mycotoxins | LOQ | LOD | Limit | Status | |
|------------------|-------|-------|-------|--------|------|
| | µg/kg | µg/kg | µg/kg | µg/kg | |
| B1 | ND | 5 | 3 | Tested | |
| B2 | ND | 5 | 3 | Tested | |
| G1 | ND | 5 | 3 | Tested | |
| G2 | ND | 5 | 3 | Tested | |
| Ochratoxin A | ND | 10 | 7 | 20 | Pass |
| Total Aflatoxins | ND | | | 20 | Pass |

| Category 2 | LOQ | LOD | Limit | Status |
|---------------------|------|------|-------|--------|
| | µg/g | µg/g | µg/g | µg/g |
| Abamectin | ND | 0.05 | 0.03 | Tested |
| Acephate | ND | 0.05 | 0.03 | Tested |
| Acequinocyl | ND | 0.05 | 0.03 | Tested |
| Acetamiprid | ND | 0.05 | 0.03 | Tested |
| Azoxystrobin | ND | 0.05 | 0.03 | Tested |
| Bifenazate | ND | 0.05 | 0.03 | Tested |
| Bifenthrin | ND | 0.25 | 0.1 | Tested |
| Boscalid | ND | 0.05 | 0.03 | Tested |
| Captan | ND | 0.35 | 0.2 | Tested |
| Carbaryl | ND | 0.05 | 0.03 | Tested |
| Chlorantraniliprole | ND | 0.05 | 0.03 | Tested |
| Clofentezine | ND | 0.05 | 0.03 | Tested |
| Cyfluthrin | ND | 0.35 | 0.25 | Tested |
| Cypermethrin | ND | 0.35 | 0.2 | Tested |
| Diazinon | ND | 0.05 | 0.03 | Tested |
| Dimethomorph | ND | 0.05 | 0.03 | Tested |
| Etoxazole | ND | 0.05 | 0.03 | Tested |
| Fenhexamid | ND | 0.05 | 0.03 | Tested |
| Fenpyroximate | ND | 0.05 | 0.03 | Tested |
| Flonicamid | ND | 0.05 | 0.03 | Tested |
| Fludioxonil | ND | 0.05 | 0.03 | Tested |
| Hexythiazox | ND | 0.05 | 0.03 | Tested |
| Imidacloprid | ND | 0.35 | 0.1 | Tested |

| Category 2 | LOQ | LOD | Limit | Status |
|-------------------------|------|------|-------|--------|
| | µg/g | µg/g | µg/g | µg/g |
| Kresoxim Methyl | ND | 0.05 | 0.03 | Tested |
| Malathion | ND | 0.05 | 0.03 | Tested |
| Metalaxyl | ND | 0.05 | 0.03 | Tested |
| Methomyl | ND | 0.45 | 0.2 | Tested |
| Myclobutanil | ND | 0.05 | 0.03 | Tested |
| Naled | ND | 0.1 | 0.05 | Tested |
| Oxamyl | ND | 0.2 | 0.1 | Tested |
| Pentachloronitrobenzene | ND | 0.1 | 0.05 | Tested |
| Permethrin | ND | 0.25 | 0.1 | Tested |
| Phosmet | ND | 0.05 | 0.03 | Tested |
| Piperonyl Butoxide | ND | 0.25 | 0.1 | Tested |
| Prallethrin | ND | 0.05 | 0.03 | Tested |
| Propiconazole | ND | 0.05 | 0.03 | Tested |
| Pyrethrins | ND | 0.25 | 0.1 | Tested |
| Pyridaben | ND | 0.05 | 0.03 | Tested |
| Spinetoram | ND | 0.05 | 0.03 | Tested |
| Spinosad | ND | 0.05 | 0.03 | Tested |
| Spiromesifen | ND | 0.05 | 0.03 | Tested |
| Spirotetramat | ND | 0.05 | 0.03 | Tested |
| Tebuconazole | ND | 0.05 | 0.03 | Tested |
| Thiamethoxam | ND | 0.25 | 0.1 | Tested |
| Trifloxystrobin | ND | 0.05 | 0.03 | Tested |

Unknown Analyte(s):

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