



Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20190225-046
Sample: 1902ICA0867.2703
6pk-CBD Hemp patented lozenges 10mg
Strain: 6pk-CBD Hemp patented lozenges 10mg
Category: Ingestible

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

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

| | | | | |
|---|-----------------------------|-----------------------------|--|-------------------------------------|
| Moisture NT Water Activity 0.379 aw | Δ 9-THC ND | CBD 63.08 mg/unit | Total Cannabinoids 63.08 mg/unit | Total Terpenes 19.59 mg/g |
|---|-----------------------------|-----------------------------|--|-------------------------------------|

| Summary | SOP Used | Date Tested | |
|-------------------|--------------------|-------------|-----------------|
| Batch | | | Pass |
| Cannabinoids | SOP:003Edible | 02/26/2019 | Complete |
| Water Activity | SOP:WA-001 | 02/26/2019 | Pass - 0.379 aw |
| Terpenes | SOP:TERPMS.Edible1 | 02/27/2019 | Complete |
| Residual Solvents | SOP:Inhalalbe | 02/27/2019 | Complete |
| Microbials | SOP:qpcrone | 02/27/2019 | Pass |
| Mycotoxins | SOP: MYCO EX | 02/26/2019 | Pass |
| Pesticides | PEST.002 Edible | 02/26/2019 | Pass |
| Heavy Metals | SOP:HM001 | 02/27/2019 | Pass |
| Foreign Matter | SOP:FM-001 | 02/25/2019 | Pass |



Scan to see results

Cannabinoid Profile

1 Unit = package, 2.83g

| 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 |
| Δ 9-THC | 0.01 | 0.01 | ND | ND | ND | CBN | 0.01 | 0.01 | ND | ND | ND |
| Δ 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 | ND | ND | ND |
| CBDa | 0.01 | 0.01 | ND | ND | ND | CBC | 0.01 | 0.01 | NR | NR | NR |
| CBD | 0.01 | 0.01 | 2.229 | 22.29 | 63.08 | Total | | | 2.229 | 22.29 | 63.08 |

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 |
|------------------------|------|------|------|---------------------|------|------|--------------|
| Eucalyptol | 0.20 | 0.10 | 7.14 | β -Ocimene | 0.20 | 0.10 | 0.21 |
| β -Caryophyllene | 0.20 | 0.10 | 3.68 | α -Terpinene | 0.20 | 0.10 | 0.21 |
| (-)-Isopulegol | | | 1.93 | α -Bisabolol | 0.20 | 0.10 | ND |
| δ -Limonene | 0.20 | 0.10 | 1.75 | α -Humulene | 0.20 | 0.10 | <LOQ |
| β -Pinene | 0.20 | 0.10 | 0.91 | β -Myrcene | 0.20 | 0.10 | ND |
| (-)-Guaiol | 0.20 | 0.10 | 0.88 | Camphene | 0.20 | 0.10 | ND |
| Linalool | 0.20 | 0.10 | 0.72 | cis-Nerolidol | 0.20 | 0.10 | ND |
| α -Pinene | 0.20 | 0.10 | 0.51 | δ -3-Carene | 0.20 | 0.10 | ND |
| γ -Terpinene | 0.20 | 0.10 | 0.47 | Geraniol | 0.20 | 0.10 | ND |
| p-Cymene | 0.20 | 0.10 | 0.46 | Terpinolene | 0.20 | 0.10 | <LOQ |
| Ocimene | 0.20 | 0.10 | 0.44 | trans-Nerolidol | 0.20 | 0.10 | ND |
| Caryophyllene Oxide | 0.20 | 0.10 | 0.30 | Total | | | 19.59 |

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
02/28/2019

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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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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 | Tested | Acetone | ND | 300.0 | 200.0 | Tested | n-Hexane | ND | 35.0 | 20.0 | Tested |
| Benzene | ND | 1.0 | 0.5 | Tested | Acetonitrile | ND | 150.0 | 100.0 | Tested | Isopropanol | ND | 300.0 | 200.0 | Tested |
| Chloroform | ND | 1.0 | 0.5 | Tested | Butane | ND | 300.0 | 200.0 | Tested | Methanol | ND | 300.0 | 200.0 | Tested |
| Ethylene Oxide | ND | 1.0 | 0.5 | Tested | Ethanol | ND | 300.0 | 200.0 | Tested | Pentane | ND | 300.0 | 200.0 | Tested |
| Methylene-Chloride | ND | 1.0 | 0.5 | Tested | Ethyl-Acetate | ND | 300.0 | 200.0 | Tested | Propane | ND | 300.0 | 200.0 | Tested |
| Trichloroethene | ND | 1.0 | 0.5 | Tested | Ethyl-Ether | ND | 300.0 | 200.0 | Tested | Toluene | ND | 150.0 | 100.0 | Tested |
| | | | | | Heptane | ND | 300.0 | 200.0 | Tested | Xylenes | ND | 150.0 | 100.0 | Tested |

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Heavy Metal Screening

| | LOQ | LOD | Limit | Status | |
|---------|-------|-------|-------|--------|------|
| | µg/g | µg/g | µg/g | µg/g | |
| Arsenic | ND | 0.100 | 0.063 | 1.500 | Pass |
| Cadmium | ND | 0.100 | 0.063 | 0.500 | Pass |
| Lead | 0.118 | 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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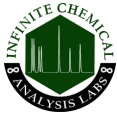
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Chemical Residue Screening

| Category 1 | LOQ | LOD | Status | |
|------------------|------|-------|--------|--------|
| | µg/g | µg/g | µg/g | |
| Aldicarb | ND | 0.050 | 0.030 | Tested |
| Carbofuran | ND | 0.050 | 0.030 | Tested |
| Chlordane | ND | 0.100 | 0.050 | Tested |
| Chlorfenapyr | ND | 0.100 | 0.050 | Tested |
| Chlorpyrifos | <LOQ | 0.050 | 0.030 | Tested |
| Coumaphos | ND | 0.050 | 0.030 | Tested |
| Daminozide | ND | 0.050 | 0.030 | Tested |
| DDVP | ND | 0.050 | 0.030 | Tested |
| Dimethoate | ND | 0.050 | 0.030 | Tested |
| Ethoprophos | ND | 0.050 | 0.030 | Tested |
| Etofenprox | ND | 0.050 | 0.030 | Tested |
| Fenoxycarb | ND | 0.050 | 0.030 | Tested |
| Fipronil | ND | 0.050 | 0.030 | Tested |
| Imazalil | ND | 0.050 | 0.030 | Tested |
| Methiocarb | ND | 0.050 | 0.030 | Tested |
| Methyl Parathion | ND | 0.100 | 0.050 | Tested |
| Mevinphos | ND | 0.050 | 0.030 | Tested |
| Paclbutrazol | ND | 0.050 | 0.030 | Tested |
| Propoxur | ND | 0.050 | 0.030 | Tested |
| Spiroxamine | ND | 0.050 | 0.030 | Tested |
| Thiacloprid | ND | 0.050 | 0.030 | Tested |

| Mycotoxins | LOQ | LOD | Limit | Status | |
|------------------|-------|-------|-------|--------|------|
| | µg/kg | µg/kg | µg/kg | µg/kg | |
| B1 | ND | 5.00 | 3.00 | Tested | |
| B2 | ND | 5.00 | 3.00 | Tested | |
| G1 | ND | 5.00 | 3.00 | Tested | |
| G2 | ND | 5.00 | 3.00 | Tested | |
| Ochratoxin A | ND | 10.00 | 7.00 | 20.00 | Pass |
| Total Aflatoxins | ND | | 20.00 | Pass | |

| Category 2 | LOQ | LOD | Limit | Status | |
|---------------------|------|-------|-------|--------|------|
| | µg/g | µg/g | µg/g | µg/g | |
| Abamectin | ND | 0.050 | 0.030 | 0.300 | Pass |
| Acephate | ND | 0.050 | 0.030 | 5.000 | Pass |
| Acequinocyl | ND | 0.050 | 0.030 | 4.000 | Pass |
| Acetamiprid | ND | 0.050 | 0.030 | 5.000 | Pass |
| Azoxystrobin | ND | 0.050 | 0.030 | 40.000 | Pass |
| Bifenazate | ND | 0.050 | 0.030 | 5.000 | Pass |
| Bifenthrin | ND | 0.250 | 0.100 | 0.500 | Pass |
| Boscalid | ND | 0.050 | 0.030 | 10.000 | Pass |
| Captan | ND | 0.350 | 0.200 | 5.000 | Pass |
| Carbaryl | ND | 0.050 | 0.030 | 0.500 | Pass |
| Chlorantraniliprole | ND | 0.050 | 0.030 | 40.000 | Pass |
| Clofentazine | ND | 0.050 | 0.030 | 0.500 | Pass |
| Cyfluthrin | ND | 0.350 | 0.250 | 1.000 | Pass |
| Cypermethrin | ND | 0.350 | 0.200 | 1.000 | Pass |
| Diazinon | ND | 0.050 | 0.030 | 0.200 | Pass |
| Dimethomorph | ND | 0.050 | 0.030 | 20.000 | Pass |
| Etoxazole | ND | 0.050 | 0.030 | 1.500 | Pass |
| Fenhexamid | ND | 0.050 | 0.030 | 10.000 | Pass |
| Fenpyroximate | ND | 0.050 | 0.030 | 2.000 | Pass |
| Flonicamid | ND | 0.050 | 0.030 | 2.000 | Pass |
| Fludioxonil | ND | 0.050 | 0.030 | 30.000 | Pass |
| Hexythiazox | ND | 0.050 | 0.030 | 2.000 | Pass |
| Imidacloprid | ND | 0.350 | 0.100 | 3.000 | Pass |

| Category 2 | LOQ | LOD | Limit | Status | |
|-------------------------|------|-------|-------|--------|------|
| | µg/g | µg/g | µg/g | µg/g | |
| Kresoxim Methyl | ND | 0.050 | 0.030 | 1.000 | Pass |
| Malathion | ND | 0.050 | 0.030 | 5.000 | Pass |
| Metalaxyl | ND | 0.050 | 0.030 | 15.000 | Pass |
| Methomyl | ND | 0.450 | 0.200 | 0.100 | Pass |
| Myclobutanil | ND | 0.050 | 0.030 | 9.000 | Pass |
| Naled | ND | 0.100 | 0.050 | 0.500 | Pass |
| Oxamyl | ND | 0.200 | 0.100 | 0.300 | Pass |
| Pentachloronitrobenzene | ND | 0.100 | 0.050 | 0.200 | Pass |
| Permethrin | ND | 0.250 | 0.100 | 20.000 | Pass |
| Phosmet | ND | 0.050 | 0.030 | 0.200 | Pass |
| Piperonyl Butoxide | ND | 0.250 | 0.100 | 8.000 | Pass |
| Prallethrin | ND | 0.050 | 0.030 | 0.400 | Pass |
| Propiconazole | ND | 0.050 | 0.030 | 20.000 | Pass |
| Pyrethrins | ND | 0.250 | 0.100 | 1.000 | Pass |
| Pyridaben | ND | 0.050 | 0.030 | 3.000 | Pass |
| Spinetoram | ND | 0.050 | 0.030 | 3.000 | Pass |
| Spinosad | ND | 0.050 | 0.030 | 3.000 | Pass |
| Spiromesifen | ND | 0.050 | 0.030 | 12.000 | Pass |
| Spirotetramat | ND | 0.050 | 0.030 | 13.000 | Pass |
| Tebuconazole | ND | 0.050 | 0.030 | 2.000 | Pass |
| Thiamethoxam | ND | 0.250 | 0.100 | 4.500 | Pass |
| Trifloxystrobin | ND | 0.050 | 0.030 | 30.000 | Pass |

Unknown Analyte(s):

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:LC-MSMS & GC-MSMS*



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