

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 67855  
 Order Name: Facial Cleanser  
 20 mg  
 Batch#: CCA-M0520  
 Received: 12/09/2020  
 Completed: 12/11/2020

CTFO  
 1325 Aimotive Way, Ste 175-L  
 Reno, NV 89502-3276  
 (707) 449-4567  
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### Sample



N/D  
 D9-THC

0.020%  
 Total CBD

22.7 mg  
 Cannabinoids per  
 unit

22.7 mg  
 CBD per  
 unit

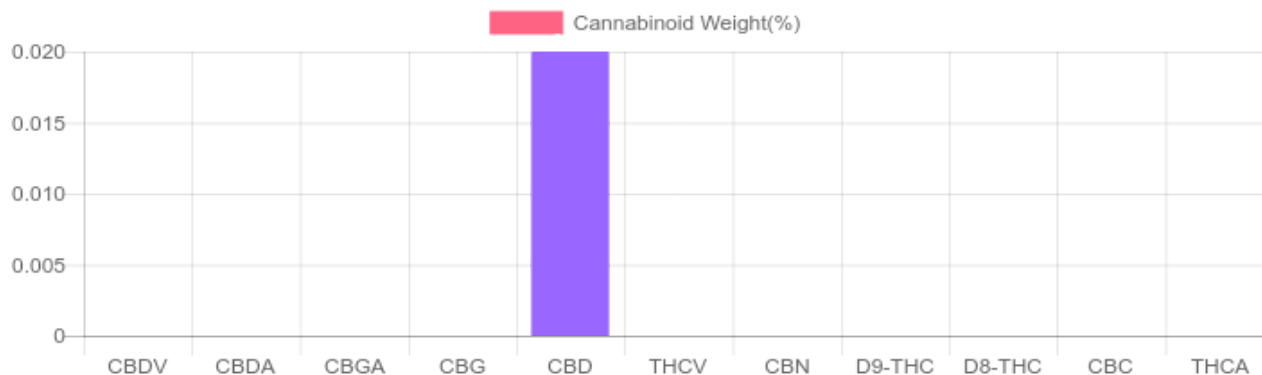
1 unit = 113.4 grams per unit x Cannabinoid  
 concentration

### Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA  
 GSL SOP 400

UPLOADED: 12/11/2020 11:22:39

| Cannabinoids       | LOQ    | weight(%) | mg/g  | mg/unit |
|--------------------|--------|-----------|-------|---------|
| D9-THC             | 10 PPM | N/D       | N/D   | N/D     |
| THCA               | 10 PPM | N/D       | N/D   | N/D     |
| CBD                | 10 PPM | 0.020%    | 0.200 | 22.7    |
| CBDA               | 20 PPM | N/D       | N/D   | N/D     |
| CBDV               | 20 PPM | N/D       | N/D   | N/D     |
| CBC                | 10 PPM | N/D       | N/D   | N/D     |
| CBN                | 10 PPM | N/D       | N/D   | N/D     |
| CBG                | 10 PPM | N/D       | N/D   | N/D     |
| CBGA               | 20 PPM | N/D       | N/D   | N/D     |
| D8-THC             | 10 PPM | N/D       | N/D   | N/D     |
| THCV               | 10 PPM | N/D       | N/D   | N/D     |
| TOTAL D9-THC       |        | N/D       | N/D   | N/D     |
| TOTAL CBD*         |        | 0.020%    | 0.200 | 22.7    |
| TOTAL CANNABINOIDS |        | 0.020%    | 0.200 | 22.7    |



Reporting Limit 10 ppm

\*Total CBD = CBD + CBDA x 0.877

N/D - Not Detected, B/LOQ - Below Limit of Quantification

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

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### PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 12/10/2020 19:15:27

UPLOADED: 12/11/2020 12:34:21

GCMS-MS - Shimadzu GCMS-TQ8040

| Pesticide    | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------|--------------------|---------------|-----------|-----------|
| CAPTAN       | 0.700              | N/D           | 0.003     | 0.001     |
| CHLORDANE    | 0.100              | N/D           | 0.003     | 0.001     |
| CHLORFENAPYR | 0.100              | N/D           | 0.003     | 0.001     |
| COUMAPHOS    | 0.100              | N/D           | 0.003     | 0.001     |

LCMS-MS - Shimadzu LCMS-8060

| Pesticide           | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|---------------------|--------------------|---------------|-----------|-----------|
| ABAMECTIN B1A       | 0.100              | N/D           | 0.005     | 0.001     |
| ACEPHATE            | 0.100              | N/D           | 0.001     | 0.001     |
| ACEQUINOCYL         | 0.100              | N/D           | 0.001     | 0.001     |
| ACETAMIPRID         | 0.100              | N/D           | 0.005     | 0.001     |
| ALDICARB            | 0.100              | N/D           | 0.005     | 0.001     |
| AZOXYSTROBIN        | 0.100              | N/D           | 0.001     | 0.001     |
| BIFENAZATE          | 0.100              | N/D           | 0.005     | 0.001     |
| BIFENTHRIN          | 3.000              | N/D           | 0.005     | 0.001     |
| BOSCALID            | 0.100              | N/D           | 0.005     | 0.001     |
| CARBARYL            | 0.500              | N/D           | 0.003     | 0.001     |
| CARBOFURAN          | 0.100              | N/D           | 0.001     | 0.001     |
| CHLORANTRANILIPROLE | 10.000             | N/D           | 0.005     | 0.005     |
| CHLORPYRIFOS        | 0.100              | N/D           | 0.001     | 0.001     |
| CLOFENTEZINE        | 0.100              | N/D           | 0.001     | 0.001     |
| DAMINOZIDE          | 0.100              | N/D           | 0.005     | 0.001     |
| DIAZINON            | 0.100              | N/D           | 0.001     | 0.001     |
| DICHLORVOS          | 0.100              | N/D           | 0.005     | 0.001     |
| DIMETHOATE          | 0.100              | N/D           | 0.001     | 0.001     |
| DIMETHOMORPH        | 2.000              | N/D           | 0.005     | 0.001     |
| ETHOPROPHOS         | 0.100              | N/D           | 0.001     | 0.001     |
| ETOFENPROX          | 0.100              | N/D           | 0.001     | 0.001     |
| ETOXAZOLE           | 0.100              | N/D           | 0.010     | 0.005     |
| FENHEXAMID          | 0.100              | N/D           | 0.005     | 0.001     |
| FENOXYCARB          | 0.100              | N/D           | 0.005     | 0.001     |
| FENPYROXIMATE       | 0.100              | N/D           | 0.001     | 0.001     |
| FIPRONIL            | 0.100              | N/D           | 0.003     | 0.001     |
| FLONICAMID          | 0.100              | N/D           | 0.025     | 0.010     |
| FLUDIOXONIL         | 0.100              | N/D           | 0.003     | 0.001     |
| HEXYTHIAZOX         | 0.100              | N/D           | 0.005     | 0.001     |
| IMAZALIL            | 0.100              | N/D           | 0.005     | 0.001     |

| Pesticide               | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-------------------------|--------------------|---------------|-----------|-----------|
| CYFLUTHRIN              | 2.000              | N/D           | 0.003     | 0.001     |
| CYPERMETHRIN            | 1.000              | N/D           | 0.003     | 0.001     |
| PARATHION-METHYL        | 0.100              | N/D           | 0.003     | 0.001     |
| PENTACHLORONITROBENZENE | 0.100              | N/D           | 0.003     | 0.001     |

| Pesticide       | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-----------------|--------------------|---------------|-----------|-----------|
| IMIDACLOPRID    | 5.000              | N/D           | 0.005     | 0.001     |
| KRESOXIM-METHYL | 0.100              | N/D           | 0.010     | 0.005     |
| MALATHION       | 0.500              | N/D           | 0.005     | 0.001     |
| METALAXYL       | 2.000              | N/D           | 0.001     | 0.001     |
| METHIOCARB      | 0.100              | N/D           | 0.005     | 0.001     |
| METHOMYL        | 1.000              | N/D           | 0.001     | 0.001     |
| MEVINPHOS       | 0.100              | N/D           | 0.001     | 0.001     |
| MYCLOBUTANIL    | 0.100              | N/D           | 0.005     | 0.001     |
| NALED           | 0.100              | N/D           | 0.005     | 0.001     |
| OXAMYL          | 0.500              | N/D           | 0.001     | 0.001     |
| PACLOBUTRAZOL   | 0.100              | N/D           | 0.005     | 0.001     |
| PERMETHRINS     | 0.500              | N/D           | 0.005     | 0.001     |
| PHOSMET         | 0.100              | N/D           | 0.005     | 0.001     |
| PIPERONYL       | 3.000              | N/D           | 0.001     | 0.001     |
| BUTOXIDE        |                    |               |           |           |
| PRALLETHRIN     | 0.100              | N/D           | 0.005     | 0.005     |
| PROPICONAZOLE   | 0.100              | N/D           | 0.010     | 0.005     |
| PROPOXUR        | 0.100              | N/D           | 0.001     | 0.001     |
| PYRETHRINS      | 0.500              | N/D           | 0.005     | 0.005     |
| (PYRETHRIN I)   |                    |               |           |           |
| PYRIDABEN       | 0.100              | N/D           | 0.005     | 0.001     |
| SPINETORAM      | 0.100              | N/D           | 0.001     | 0.001     |
| SPINOSAD        | 0.100              | N/D           | 0.001     | 0.001     |
| SPIROMESIFEN    | 0.100              | N/D           | 0.005     | 0.001     |
| SPIROTETRAMAT   | 0.100              | N/D           | 0.001     | 0.001     |
| SPIROXAMINE     | 0.100              | N/D           | 0.001     | 0.001     |
| TEBUCONAZOLE    | 0.100              | N/D           | 0.005     | 0.001     |
| THIACLOPRID     | 0.100              | N/D           | 0.001     | 0.001     |
| THIAMETHOXAM    | 5.000              | N/D           | 0.001     | 0.001     |
| TRIFLOXYSTROBIN | 0.100              | N/D           | 0.001     | 0.001     |

N/D = Not Detected, A/LOQ = Above LOQ Level, B/LOQ = Below LOQ Level, B/LOD = Below LOD Level

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### RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

Prepared: 12/10/2020 21:42:06

Uploaded: 12/11/2020 12:27:36

| Residual Solvent         | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------------------|--------------------|---------------|-----------|-----------|
| 1,1-DICHLOROETHENE       | 8                  | N/D           | 0.63      | 0.63      |
| 1,2-DICHLOROETHANE       | 2                  | N/D           | 0.12      | 0.02      |
| ACETONE                  | 5,000              | N/D           | 140       | 20        |
| ACETONITRILE             | 410                | N/D           | 25        | 1         |
| BENZENE                  | 1                  | N/D           | 1         | 0.5       |
| BUTANE                   | 5,000              | N/D           | 50        | 10        |
| CHLOROFORM               | 1                  | N/D           | 1         | 0.5       |
| CIS 1,2-DICHLOROETHENE   | 5                  | N/D           | 0.73      | 0.18      |
| ETHANOL                  | 5,000              | N/D           | 140       | 20        |
| ETHYL ACETATE            | 5,000              | N/D           | 140       | 20        |
| ETHYL ETHER              | 5,000              | N/D           | 140       | 20        |
| ETHYLENE OXIDE           | 1                  | N/D           | 0         | 0         |
| ISOPROPYL ALCOHOL        | 5,000              | N/D           | 140       | 20        |
| METHANOL                 | 3,000              | N/D           | 100       | 20        |
| METHYLENE CHLORIDE       | 125                | N/D           | 0.15      | 0.15      |
| N-HEPTANE                | 5,000              | N/D           | 140       | 20        |
| N-HEXANE                 | 290                | N/D           | 18        | 10        |
| PENTANE                  | 5,000              | N/D           | 140       | 20        |
| PROPANE                  | 5,000              | N/D           | 20        | 1         |
| TOLUENE                  | 890                | N/D           | 53        | 1         |
| TRANS 1,2-DICHLOROETHENE | 5                  | N/D           | 0.73      | 0.18      |
| TRICHLOROETHENE          | 1                  | N/D           | 1         | 0.5       |
| XYLENES                  | 150                | N/D           | 130       | 20        |

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### Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 12/11/2020 17:21:54

PCR - Agilent AriaMX

fa

### MICROBIAL ANALYSIS:

PCR - Agilent AriaMX

| Test                     | SOP    | Test Method | Device Used | LOD                    | Allowable Criteria  | Actual Result | Pass/Fail |
|--------------------------|--------|-------------|-------------|------------------------|---------------------|---------------|-----------|
| ASPERGILLUS FUMIGATUS*** | 406.01 | USP 61/62†  | ARIAMX PCR  | 1 CFU/G**              | DETECT/NOT DETECTED | NOT DETECTED  | PASS      |
| ASPERGILLUS TERREUS***   | 406.01 | USP 61/62†  | ARIAMX PCR  | 1 CFU/G**              | DETECT/NOT DETECTED | NOT DETECTED  | PASS      |
| ASPERGILLUS FLAVUS***    | 406.01 | USP 61/62†  | ARIAMX PCR  | 1 CFU/G**              | DETECT/NOT DETECTED | NOT DETECTED  | PASS      |
| ASPERGILLUS NIGER***     | 406.01 | USP 61/62†  | ARIAMX PCR  | 1 CFU/G**              | DETECT/NOT DETECTED | NOT DETECTED  | PASS      |
| STEC E. COLI*            | 406.01 | USP 61/62†  | ARIAMX PCR  | 1 CFU/G**              | DETECT/NOT DETECTED | NOT DETECTED  | PASS      |
| SALMONELLA*              | 406.01 | USP 61/62†  | ARIAMX PCR  | 1 CFU/G**              | DETECT/NOT DETECTED | NOT DETECTED  | PASS      |
| TOTAL YEAST AND MOLD     | 406.01 | USP 61/62†  | ARIAMX PCR  | CFU/G BY SAMPLE TYPE** | 1,000 CFU/G         | NOT DETECTED  | PASS      |
| AEROBIC BACTERIA COUNT   | 406.01 | USP 61/62†  | ARIAMX PCR  | CFU/G BY SAMPLE TYPE** | 10,000 CFU/G        | NOT DETECTED  | PASS      |
| ENTEROBACTERIACEAE       | 406.01 | USP 61/62†  | ARIAMX PCR  | CFU/G BY SAMPLE TYPE** | 100 CFU/G           | NOT DETECTED  | PASS      |
| COLIFORM                 | 406.01 | USP 61/62†  | ARIAMX PCR  | CFU/G BY SAMPLE TYPE** | 100 CFU/G           | NOT DETECTED  | PASS      |

† USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc)

\* STEC and Salmonella run as Multiplex

\*\* CFU/g Calculation based on MIP/Extract matrix

\*\*\* Flavus = 2 Copies of DNA / Fumigatis = 2 Copies of DNA Niger = 20 Copies of DNA / Terrus = 10 copies of DNA

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### Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060  
GSL SOP 401

Uploaded: 12/11/2020 11:55:54

| Analyte      | Action Lvl (ppb) | Results (ppb) |
|--------------|------------------|---------------|
| AFLATOXIN B1 | 20               | N/D           |
| AFLATOXIN B2 | 20               | N/D           |
| AFLATOXIN G1 | 20               | N/D           |
| AFLATOXIN G2 | 20               | N/D           |
| OCHRATOXIN A | 20               | N/D           |

LOQ is 1ppb, LOD is 1ppb

### Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

Uploaded: 12/09/2020 23:03:27

#### Water

0.92

### Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030  
GSL SOP 403

Uploaded: 12/10/2020 17:58:54

| Metal        | Action Level (ppb) | Result (ppb) |
|--------------|--------------------|--------------|
| ARSENIC (AS) | 200                | B/LOQ        |
| CADMIUM (CD) | 200                | B/LOQ        |
| MERCURY (HG) | 100                | B/LOQ        |
| LEAD (PB)    | 500                | B/LOQ        |

Lower Limit of Quantitation (LOQ) is 75 ppb

### Filth and Foreign Materials Analysis:

Microscope - Amscope Simul-Focal Trinocular Stereo Zoom Microscope - GSL SOP 409

Uploaded: 12/09/2020 23:09:14

Pass: No Foreign Materials Detected

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