

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 96665  
 Order Name: Karma CBD -  
 Blueberry Yuzu  
 Batch#: Batch 001  
 Received: 06/29/2022  
 Completed: 07/05/2022

Karma Culture LLC  
 30-A Grove St.  
 Pittsford NY, 14534  
 (585) 218-0022  
 info@DrinkKarma.com



### Sample



**N/D**  
 Total D9-THC

**0.005%**  
 Total CBD

**26.6 mg**  
 Cannabinoids per  
 unit

**25.0 mg**  
 CBD per  
 unit

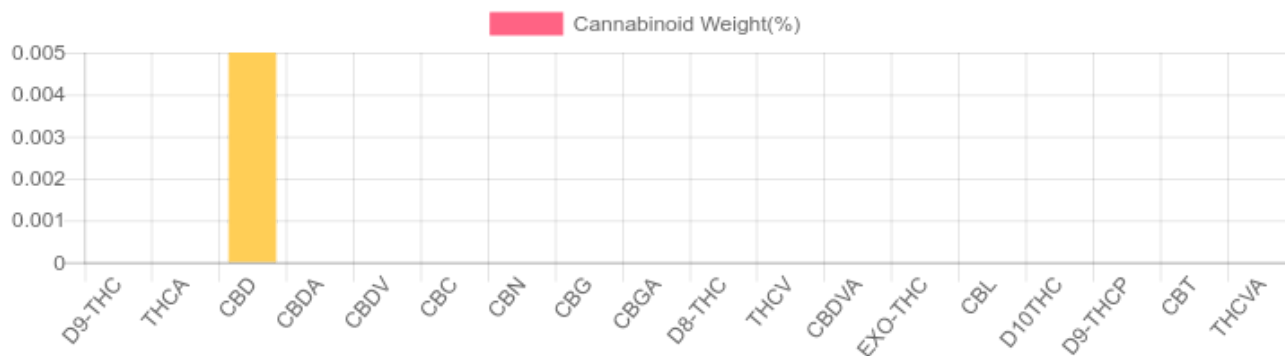
1 unit = 532 ml per unit x density (1) x  
 Cannabinoid concentration

### Cannabinoids Test

HPLC-DAD  
 GSL SOP 400

UPLOADED: 07/05/2022 13:07:20

| Cannabinoids       | LOQ(mg/g) | LOD(mg/g) | weight(%)     | mg/g         | mg/unit       |
|--------------------|-----------|-----------|---------------|--------------|---------------|
| D9-THC             | 0.0010    | 0.0003    | N/D           | N/D          | N/D           |
| THCA               | 0.0010    | 0.0003    | N/D           | N/D          | N/D           |
| CBD                | 0.0010    | 0.0003    | <b>0.005%</b> | <b>0.047</b> | <b>25.004</b> |
| CBDA               | 0.0010    | 0.0003    | N/D           | N/D          | N/D           |
| CBDV               | 0.0010    | 0.0003    | N/D           | N/D          | N/D           |
| CBC                | 0.0010    | 0.0003    | 0.000         | <b>0.001</b> | <b>0.532</b>  |
| CBN                | 0.0010    | 0.0003    | B/LOQ         | B/LOQ        | B/LOQ         |
| CBG                | 0.0010    | 0.0003    | 0.000         | <b>0.002</b> | <b>1.064</b>  |
| CBGA               | 0.0010    | 0.0003    | N/D           | N/D          | N/D           |
| D8-THC             | 0.0010    | 0.0003    | N/D           | N/D          | N/D           |
| THCV               | 0.0010    | 0.0003    | N/D           | N/D          | N/D           |
| CBDVA              | 0.0010    | 0.0003    | N/D           | N/D          | N/D           |
| EXO-THC            | 0.0010    | 0.0003    | N/D           | N/D          | N/D           |
| CBL                | 0.0010    | 0.0003    | N/D           | N/D          | N/D           |
| D10THC             | 0.0010    | 0.0003    | N/D           | N/D          | N/D           |
| D9-THCP            | 0.0010    | 0.0003    | N/D           | N/D          | N/D           |
| CBT                | 0.0010    | 0.0003    | N/D           | N/D          | N/D           |
| THCVA              | 0.0010    | 0.0003    | N/D           | N/D          | N/D           |
| TOTAL D9-THC       |           |           | N/D           | N/D          | N/D           |
| TOTAL CBD*         |           |           | <b>0.005%</b> | <b>0.047</b> | <b>25.0</b>   |
| TOTAL CANNABINOIDS |           |           | <b>0.005%</b> | <b>0.050</b> | <b>26.6</b>   |



\*Total CBD = CBD + CBDA x 0.877  
 N/D - Not Detected, B/LOQ - Below Limit of Quantification

Diana Asensio, M.S.,  
 Lab Director

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 1-833 TEST CBD



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### TERPENES: TOTAL (0.000%)

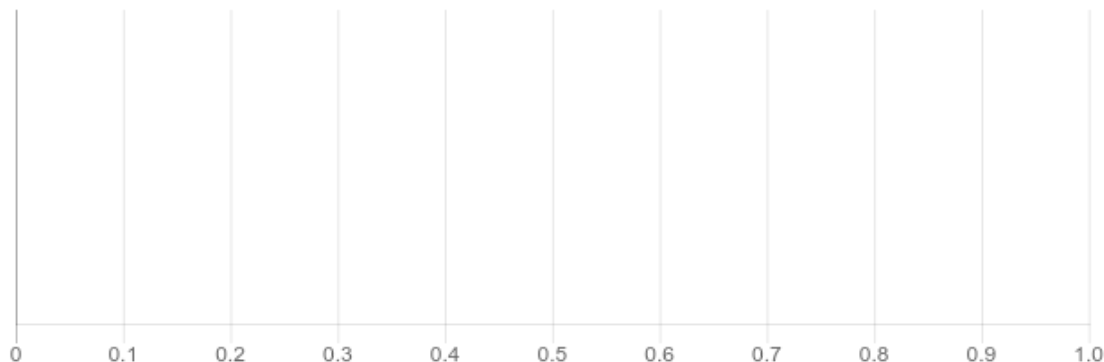
GC-FID

GSL SOP 404

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| Terpene                   | Results (%) | LOQ (%) | LOD (%) | Terpene                    | Results (%) | LOQ (%) | LOD (%) |
|---------------------------|-------------|---------|---------|----------------------------|-------------|---------|---------|
| 3-CARENE                  | N/D         | 0.003%  | 0.001%  | GERANIOL                   | N/D         | 0.003%  | 0.001%  |
| A-BISABOLOL               | N/D         | 0.003%  | 0.001%  | GERANYL ACETATE            | N/D         | 0.003%  | 0.001%  |
| A-CEDRENE                 | N/D         | 0.003%  | 0.001%  | GUAJOL                     | N/D         | 0.003%  | 0.001%  |
| A-HUMULENE                | N/D         | 0.003%  | 0.001%  | HEXAHYDROTHYMOL            | N/D         | 0.003%  | 0.001%  |
| A-PINENE                  | N/D         | 0.003%  | 0.001%  | ISOBORNEOL                 | N/D         | 0.003%  | 0.001%  |
| A-TERPINENE               | N/D         | 0.003%  | 0.001%  | ISOPULEGOL                 | N/D         | 0.003%  | 0.001%  |
| B-MYRCENE                 | N/D         | 0.003%  | 0.001%  | LIMONENE                   | N/D         | 0.003%  | 0.001%  |
| B-PINENE                  | N/D         | 0.003%  | 0.001%  | LINALOOL                   | N/D         | 0.003%  | 0.001%  |
| BORNEOL (MIX OF ISOMERS)  | N/D         | 0.003%  | 0.001%  | NEROL                      | N/D         | 0.003%  | 0.001%  |
| CAMPHENE                  | N/D         | 0.003%  | 0.001%  | P-MENTHA-1, 5-DIENE        | N/D         | 0.003%  | 0.001%  |
| CAMPHOR (MIX OF ISOMERS)  | N/D         | 0.003%  | 0.001%  | PULEGONE (+)               | N/D         | 0.003%  | 0.001%  |
| CARYOPHYLLENE OXIDE       | N/D         | 0.003%  | 0.001%  | SABINENE HYDRATE           | N/D         | 0.003%  | 0.001%  |
| CEDROL                    | N/D         | 0.003%  | 0.001%  | TERPINEOL (MIX OF ISOMERS) | N/D         | 0.003%  | 0.001%  |
| CIS-NEROLIDOL             | N/D         | 0.003%  | 0.001%  | TERPINOLENE                | N/D         | 0.003%  | 0.001%  |
| CIS-OCIMENE               | N/D         | 0.003%  | 0.001%  | TRANS-CARYOPHYLLENE        | N/D         | 0.003%  | 0.001%  |
| ENDO-FENCHYL ALCOHOL      | N/D         | 0.003%  | 0.001%  | TRANS-NEROLIDOL            | N/D         | 0.003%  | 0.001%  |
| EUCALYPTOL                | N/D         | 0.003%  | 0.001%  | TRANS-OCIMENE              | N/D         | 0.003%  | 0.001%  |
| FENCHONE (MIX OF ISOMERS) | N/D         | 0.003%  | 0.001%  | VALENCENE                  | N/D         | 0.003%  | 0.001%  |
| GAMMA-TERPINENE           | N/D         | 0.003%  | 0.001%  |                            |             |         |         |

### Top Terpenes Results:



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### PESTICIDE ANALYSIS:

GSL SOP 401

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GC-MS/MS

| Pesticide    | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------|--------------------|---------------|-----------|-----------|
| CAPTAN       | 0.700              | N/D           | 0.100     | 0.010     |
| CHLORDANE    | 0.100              | N/D           | 0.100     | 0.010     |
| CHLORFENAPYR | 0.100              | N/D           | 0.100     | 0.010     |
| COUMAPHOS    | 0.100              | N/D           | 0.100     | 0.010     |

| Pesticide               | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-------------------------|--------------------|---------------|-----------|-----------|
| CYFLUTHRIN              | 2.000              | N/D           | 0.100     | 0.010     |
| CYPERMETHRIN            | 1.000              | N/D           | 0.100     | 0.010     |
| PARATHION-METHYL        | 0.100              | N/D           | 0.100     | 0.010     |
| PENTACHLORONITROBENZENE | 0.100              | N/D           | 0.100     | 0.010     |

LC-MS/MS

| Pesticide           | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|---------------------|--------------------|---------------|-----------|-----------|
| ABAMECTIN B1A       | 0.100              | N/D           | 0.005     | 0.005     |
| ACEPHATE            | 0.100              | N/D           | 0.005     | 0.001     |
| ACEQUINOCYL         | 0.100              | N/D           | 0.005     | 0.005     |
| ACETAMIPRID         | 0.100              | N/D           | 0.005     | 0.005     |
| ALDICARB            | 0.100              | N/D           | 0.005     | 0.005     |
| AZOXYSTROBIN        | 0.100              | N/D           | 0.005     | 0.001     |
| BIFENAZATE          | 0.100              | N/D           | 0.005     | 0.001     |
| BIFENTHRIN          | 3.000              | N/D           | 0.005     | 0.005     |
| BOSCALID            | 0.100              | N/D           | 0.005     | 0.005     |
| CARBARYL            | 0.500              | N/D           | 0.005     | 0.001     |
| CARBOFURAN          | 0.100              | N/D           | 0.005     | 0.001     |
| CHLORANTRANILIPROLE | 10.000             | N/D           | 0.005     | 0.005     |
| CHLORPYRIFOS        | 0.100              | N/D           | 0.005     | 0.005     |
| CLOFENTEZINE        | 0.100              | N/D           | 0.005     | 0.005     |
| DAMINOZIDE          | 0.100              | N/D           | 0.005     | 0.001     |
| DIAZINON            | 0.100              | N/D           | 0.005     | 0.005     |
| DICHLORVOS          | 0.100              | N/D           | 0.005     | 0.001     |
| DIMETHOATE          | 0.100              | N/D           | 0.005     | 0.001     |
| DIMETHOMORPH        | 2.000              | N/D           | 0.005     | 0.001     |
| ETHOPROPHOS         | 0.100              | N/D           | 0.005     | 0.001     |
| ETOFENPROX          | 0.100              | N/D           | 0.005     | 0.005     |
| ETOXAZOLE           | 0.100              | N/D           | 0.050     | 0.005     |
| FENHEXAMID          | 0.100              | N/D           | 0.005     | 0.001     |
| FENOXYCARB          | 0.100              | N/D           | 0.005     | 0.005     |
| FENPYROXIMATE       | 0.100              | N/D           | 0.005     | 0.005     |
| FIPRONIL            | 0.100              | N/D           | 0.005     | 0.005     |
| FLONICAMID          | 0.100              | N/D           | 0.025     | 0.005     |
| FLUDIOXONIL         | 0.100              | N/D           | 0.005     | 0.005     |
| HEXYTHIAZOX         | 0.100              | N/D           | 0.005     | 0.005     |

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

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

Diana Asensio, M.S.,  
 Lab Director

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 1-833 TEST CBD



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### RESIDUAL SOLVENTS:

HS-GC-MS

GSL SOP 405

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| Residual Solvent    | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|---------------------|--------------------|---------------|-----------|-----------|
| 1,1-DICHLOROETHENE  | 8                  | N/D           | 0.63      | 0.6       |
| 1,2- DICHLOROETHANE | 2                  | N/D           | 0.12      | 0.04      |
| 1,2-DICHLOROETHENE  | 5                  | N/D           | 0.73      | 0.09      |
| ACETONE             | 5,000              | N/D           | 140       | 75        |
| ACETONITRILE        | 410                | N/D           | 25        | 6         |
| BENZENE             | 1                  | N/D           | 1         | 0.6       |
| BUTANE              | 5,000              | N/D           | 50        | 48        |
| CHLOROFORM          | 1                  | N/D           | 1         | 0.5       |
| ETHANOL             | 5,000              | N/D           | 140       | 47        |
| ETHYL ACETATE       | 5,000              | N/D           | 140       | 40        |
| ETHYL ETHER         | 5,000              | N/D           | 140       | 50        |
| ETHYLENE OXIDE      | 1                  | N/D           | 2         | 0.6       |
| ISOPROPYL ALCOHOL   | 5,000              | N/D           | 140       | 50        |
| METHANOL            | 3,000              | N/D           | 100       | 25        |
| METHYLENE CHLORIDE  | 125                | N/D           | 1.5       | 1.5       |
| N-HEPTANE           | 5,000              | N/D           | 140       | 6         |
| N-HEXANE            | 290                | N/D           | 18        | 6         |
| PENTANE             | 5,000              | N/D           | 140       | 75        |
| PROPANE             | 5,000              | N/D           | 30        | 30        |
| TOLUENE             | 890                | N/D           | 53        | 15        |
| TRICHLOROETHENE     | 1                  | N/D           | 1         | 0.3       |
| XYLENES             | 150                | N/D           | 130       | 15        |

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### Microbial Analysis:

Microbial Analysis GSL SOP 406

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### MICROBIAL ANALYSIS:

| Test                     | SOP | Test Method   | Device Used | Allowable Criteria | Actual Result  |
|--------------------------|-----|---------------|-------------|--------------------|----------------|
| ASPERGILLUS FUMIGATUS*** | 406 | REAL-TIME PCR | ARIAMX PCR  | < 1 CFU/G          | NOT DETECTED   |
| ASPERGILLUS NIGER***     | 406 | REAL-TIME PCR | ARIAMX PCR  | < 1 CFU/G          | NOT DETECTED   |
| ASPERGILLUS FLAVUS***    | 406 | REAL-TIME PCR | ARIAMX PCR  | < 1 CFU/G          | NOT DETECTED   |
| ASPERGILLUS TERREUS***   | 406 | REAL-TIME PCR | ARIAMX PCR  | < 1 CFU/G          | NOT DETECTED   |
| STEC E. COLI*            | 406 | REAL-TIME PCR | ARIAMX PCR  | < 1 CFU/G          | NOT DETECTED   |
| SALMONELLA*              | 406 | REAL-TIME PCR | ARIAMX PCR  | < 1 CFU/G          | NOT DETECTED   |
| TOTAL YEAST AND MOLD     | 406 | REAL-TIME PCR | ARIAMX PCR  | NOT APPLICABLE     | < 1,000 CFU/G  |
| AEROBIC BACTERIA COUNT   | 406 | REAL-TIME PCR | ARIAMX PCR  | NOT APPLICABLE     | < 10,000 CFU/G |
| ENTEROBACTERIACEAE       | 406 | REAL-TIME PCR | ARIAMX PCR  | NOT APPLICABLE     | < 100 CFU/G    |
| COLIFORM                 | 406 | REAL-TIME PCR | ARIAMX PCR  | NOT APPLICABLE     | < 100 CFU/G    |

\* 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/MS  
GSL SOP 401

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| Analyte      | LOQ (ppb) | LOD (ppb) | Action Lvl (ppb) | Results (ppb) |
|--------------|-----------|-----------|------------------|---------------|
| AFLATOXIN B1 | 1         | 1         | 20               | N/D           |
| AFLATOXIN B2 | 1         | 1         | 20               | N/D           |
| AFLATOXIN G1 | 1         | 1         | 20               | N/D           |
| AFLATOXIN G2 | 1         | 1         | 20               | N/D           |
| OCHRATOXIN A | 1         | 1         | 20               | N/D           |

### Heavy Metals Analysis:

ICP-MS  
GSL SOP 403

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| Metal        | LOQ (ppb) | LOD (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|-----------|--------------------|--------------|
| ARSENIC (AS) | 75        | 20        | 200                | N/D          |
| CADMIUM (CD) | 75        | 20        | 200                | N/D          |
| MERCURY (HG) | 75        | 20        | 100                | N/D          |
| LEAD (PB)    | 75        | 20        | 500                | N/D          |

### Moisture Analysis:

Shimadzu MOC63U Moisture Balance - GSL SOP 411

Uploaded: 06/30/2022 00:04:03

#### Moisture %

98.8%

### Water Activity:

Water Activity Meter

Uploaded: 06/30/2022 00:04:04

#### Water

0.91

### Filth and Foreign Materials Analysis:

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

Uploaded: 06/29/2022 23:06:18

Pass: No Foreign Materials Detected

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