

# CERTIFICATE OF ANALYSIS



Order #: 34608  
 Order Name: Grape Kush  
 Shatter  
 Batch#: 2006  
 Received: 08/14/2019  
 Completed: 08/21/2019



**CBD LION**  
 750 Tower Rd unit B  
 Mundelien IL , 60060  
 (847) 971-6802  
 andy@cbdliion.com, erik@cbdliion.com



## Sample



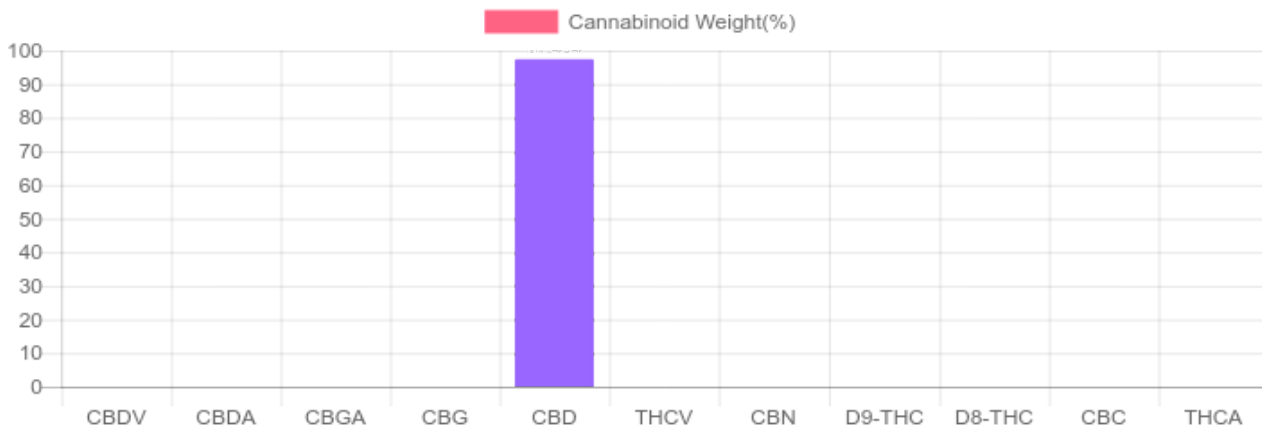
|  |                               |
|--|-------------------------------|
| N/D<br>D9-THC                          | 97.434%<br>Total CBD          |
| 974.3 mg<br>Cannabinoids per container | 974.3 mg<br>CBD per container |

## Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA  
 GSL SOP 400      **PREPARED:** 08/16/2019 21:15:21      **UPLOADED:** 08/21/2019 18:48:10

| Cannabinoids       | LOQ    | weight(%) | mg/g    | mg/container |
|--------------------|--------|-----------|---------|--------------|
| D9-THC             | 10 PPM | N/D       | N/D     | N/D          |
| THCA               | 10 PPM | N/D       | N/D     | N/D          |
| CBD                | 10 PPM | 97.434%   | 974.340 | 974.3        |
| 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*         |        | 97.434%   | 974.340 | 974.3        |
| TOTAL CANNABINOIDS |        | 97.434%   | 974.340 | 974.3        |

1 container = 1 grams per container x  
 Cannabinoid concentration



Reporting Limit 10 ppm  
 \*Total CBD = CBD + CBDA x 0.877  
 N/D - Not Detected, B/LOQ - Below Limit of Quantification



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*[Signature]*  
 Dr. Andrew Hall, Ph.D., CSO & Lab Director

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## PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 08/14/2019 21:51:21

UPLOADED: 08/16/2019 20:13:29

GCMS-MS - Shimadzu GCMS-TQ8040

| Pesticide    | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------|--------------------|---------------|-----------|-----------|
| CHLORFENAPYR | 0.010              | N/D           | 0.003     | 0.001     |
| COUMAPHOS    | 0.010              | N/D           | 0.003     | 0.001     |
| CYFLUTHRIN   | 0.010              | N/D           | 0.003     | 0.001     |

| Pesticide               | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-------------------------|--------------------|---------------|-----------|-----------|
| CYPERMETHRIN            | 0.500              | N/D           | 0.003     | 0.001     |
| PENTACHLORONITROBENZENE | 0.030              | N/D           | 0.003     | 0.001     |

LCMS-MS - Shimadzu LCMS-8060

| Pesticide       | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-----------------|--------------------|---------------|-----------|-----------|
| ABAMECTIN B1A   | 0.020              | N/D           | 0.005     | 0.001     |
| ACEPHATE        | 0.020              | N/D           | 0.001     | 0.001     |
| ACEQUINOCYL     | 0.020              | N/D           | 0.001     | 0.001     |
| ACETAMIPRID     | 10.000             | N/D           | 0.005     | 0.001     |
| ALDICARB        | 0.010              | N/D           | 0.005     | 0.001     |
| AZOXYSTROBIN    | 0.100              | N/D           | 0.001     | 0.001     |
| BIFENAZATE      | 0.010              | N/D           | 0.005     | 0.001     |
| CHLORPYRIFOS    | 0.020              | N/D           | 0.001     | 0.001     |
| CLOFENTEZINE    | 0.040              | N/D           | 0.001     | 0.001     |
| DAMINOZIDE      | 0.010              | N/D           | 0.005     | 0.001     |
| DIAZANON        | 0.010              | N/D           | 0.001     | 0.001     |
| DICHLORVOS      | 0.020              | N/D           | 0.005     | 0.001     |
| DIMETHOATE      | 0.010              | N/D           | 0.001     | 0.001     |
| DIMETHOMORPH    | 0.010              | N/D           | 0.005     | 0.001     |
| ETHOPROPHOS     | 0.010              | N/D           | 0.001     | 0.001     |
| ETOFENPROX      | 0.010              | N/D           | 0.001     | 0.001     |
| ETOXAZOLE       | 0.010              | N/D           | 0.010     | 0.005     |
| FENHEXAMID      | 0.080              | N/D           | 0.005     | 0.001     |
| FENOXYCARB      | 0.010              | N/D           | 0.005     | 0.001     |
| FENPYROXIMATE   | 0.100              | N/D           | 0.001     | 0.001     |
| FIPRONIL        | 0.010              | N/D           | 0.003     | 0.001     |
| FLONICAMID      | 0.100              | N/D           | 0.025     | 0.010     |
| FLUDIOXONIL     | 0.020              | N/D           | 0.003     | 0.001     |
| HEXYTHIAZOX     | 0.100              | N/D           | 0.005     | 0.001     |
| IMAZALIL        | 0.010              | N/D           | 0.005     | 0.001     |
| IMIDACLOPRID    | 0.020              | N/D           | 0.005     | 0.001     |
| KRESOXIM-METHYL | 0.020              | N/D           | 0.010     | 0.005     |

| Pesticide                | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------------------|--------------------|---------------|-----------|-----------|
| MALATHION                | 0.010              | N/D           | 0.005     | 0.001     |
| METALAXYL                | 0.010              | N/D           | 0.001     | 0.001     |
| METHIOCARB               | 0.010              | N/D           | 0.005     | 0.001     |
| METHOMYL                 | 0.010              | N/D           | 0.001     | 0.001     |
| MEVINPHOS                | 0.010              | N/D           | 0.001     | 0.001     |
| MYCLOBUTANIL             | 0.020              | N/D           | 0.005     | 0.001     |
| NALED                    | 0.010              | N/D           | 0.005     | 0.001     |
| OXAMYL                   | 0.026              | N/D           | 0.001     | 0.001     |
| PACLOBUTRAZOL            | 0.010              | N/D           | 0.005     | 0.001     |
| PERMETHRINS              | 0.020              | N/D           | 0.005     | 0.001     |
| PHOSMET                  | 0.020              | N/D           | 0.005     | 0.001     |
| PIPERONYL BUTOXIDE       | 3.000              | N/D           | 0.001     | 0.001     |
| PRALLETHRIN              | 0.020              | N/D           | 0.005     | 0.005     |
| PROPICONAZOLE            | 0.020              | N/D           | 0.010     | 0.005     |
| PROPOXUR                 | 0.020              | N/D           | 0.001     | 0.001     |
| PYRETHRINS (PYRETHRIN I) | 0.500              | N/D           | 0.005     | 0.005     |
| PYRIDABEN                | 0.020              | N/D           | 0.005     | 0.001     |
| SPINETORAM               | 0.040              | N/D           | 0.001     | 0.001     |
| SPINOSAD (SPINOSYN A)    | 0.020              | N/D           | 0.001     | 0.001     |
| SPINOSAD (SPINOSYN D)    | 0.020              | N/D           | 0.001     | 0.001     |
| SPIROMESIFEN             | 0.030              | N/D           | 0.005     | 0.001     |
| SPIROTETRAMAT            | 0.020              | N/D           | 0.001     | 0.001     |
| SPIROXAMINE              | 0.010              | N/D           | 0.001     | 0.001     |
| TEBUCONAZOLE             | 0.010              | N/D           | 0.005     | 0.001     |
| THIACLOPRID              | 0.010              | N/D           | 0.001     | 0.001     |
| THIAMETHOXAM             | 0.010              | N/D           | 0.001     | 0.001     |
| TRIFLOXYSTROBIN          | 0.020              | 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

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| Residual Solvent  | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-------------------|--------------------|---------------|-----------|-----------|
| ACETONE           | 5,000              | B/LOQ         | 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       |
| DICHLOROETHANE    | 1                  | N/D           | 1         | 0.5       |
| DICHLOROMETHANE   | 1                  | N/D           | 1         | 0.5       |
| ETHANOL           | 5,000              | N/D           | 140       | 20        |
| ETHYL ACETATE     | 5,000              | N/D           | 140       | 20        |
| ETHYL ETHER       | 5,000              | N/D           | 140       | 20        |
| ISOPROPYL ALCOHOL | 5,000              | B/LOQ         | 140       | 20        |
| METHANOL          | 3,000              | N/D           | 100       | 20        |
| 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         |
| TRICHLOROETHENE   | 1                  | N/D           | 0         | 0         |
| XYLENES           | 2,170              | N/D           | 130       | 20        |



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## Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060  
GSL SOP 401

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| 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 4ppb, LOD is 1ppb

## Microbial Analysis:

PCR - Agilent AriaMX

| Test                   | Test Method Used | Device Used | LOD             | Allowable Criteria | Actual Result | Pass/Fail |
|------------------------|------------------|-------------|-----------------|--------------------|---------------|-----------|
| PATHOGENIC E.COLI*     | USP 61/62†       | ARIAMX PCR  | 2 COPIES OF DNA | PRESENCE / ABSENT  | BELOW LOD     | PASS      |
| STEC E.COLI*           | USP 61/62†       | ARIAMX PCR  | 2 COPIES OF DNA | PRESENCE / ABSENT  | BELOW LOD     | PASS      |
| SALMONELLA*            | USP 61/62†       | ARIAMX PCR  | 5 COPIES OF DNA | PRESENCE / ABSENT  | BELOW LOD     | PASS      |
| LISTERIA MONOCYTOGENES |                  | ARIAMX PCR  | 2 COPIES OF DNA | PRESENCE / ABSENT  | BELOW LOD     | 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

## Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030  
GSL SOP 403

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| 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

Microbial Analysis GSL SOP 406

Uploaded: 08/20/2019 19:51:25



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