



# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** CBD Tincture - Mint  
**PRODUCT STRENGTH:** 450 mg  
**LOT NUMBER:** 20LL041K11  
**BEST BY DATE:** 7/27/21  
**HEMP EXTRACT LOT NUMBER\*:** 092519.A

\*Click on the links to view third-party reports\*

## Physical Attributes

| Test                    | Method  | Specification  | Results |
|-------------------------|---------|--|---------|
| Color                   | SOP-100 | Golden to Amber  | PASS    |
| Odor                    | SOP-100 | Characteristic - Olive and hemp, minty   | PASS    |
| Appearance              | SOP-100 | Golden to Amber oil in brown glass bottle with dropper   | PASS    |
| Primary Package Eval.   | SOP-132 | Container clean and free of filth. Container caps tight and shrink bands intact                                  | PASS    |
| Secondary Package Eval. | SOP-132 | Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure. | PASS    |

## Review of Third-Party Analysis

| Panel                          | Method  | Specification   | Results                   | Pass/Fail |
|--------------------------------|---------|---|---------------------------|-----------|
| Potency - Total CBD            | SOP-111 | 427.5-562.2 mg CBD<br>LOQ**: 10 PPM† (0.001%)   | <a href="#">479.4</a>     | PASS      |
| Potency - D9-THC               | SOP-111 | None Detected LOQ: 10 PPM (0.001%)  | <a href="#">ND</a>        | PASS      |
| FL Compliant Pesticide Panel   | SOP-111 | WIP-100008 : Product specification for Tincture, Oregon Action limits apply                   | <a href="#">ND</a>        | PASS      |
| Microbial - Stec E.Coli        | SOP-111 | Complies with USP 61/62   | <a href="#">Below LOD</a> | PASS      |
| Microbial - Salmonella         | SOP-111 | Complies with USP 61/62   | <a href="#">Below LOD</a> | PASS      |
| Microbial - Aspergillus        | SOP-111 | Complies with USP 61/62   | <a href="#">Below LOD</a> | PASS      |
| CA Compliant Heavy Metal Panel | SOP-111 | Arsenic (As): 1.5 PPM<br>Cadmium (Cd): 0.5 PPM<br>Mercury (Hg): 1.0 PPM<br>Lead (Pb): 0.5 PPM | <a href="#">Below LOQ</a> | PASS      |

\* Level of Quantitation, † Parts Per Million

Quality Certified by:

*Darcie Moran*

02/20/2020

Darcie Moran  
Manager of Quality Assurance

Date



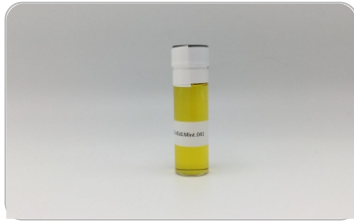
# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104

Order #: 47908  
Order Name: 450.Mint.041  
Batch#: 20LL041K11  
Received: 02/03/2020  
Completed: 02/04/2020



### Sample



N/D  
D9-THC

1.691%  
Total CBD

490.2 mg  
Cannabinoids per  
bottle

479.4 mg  
CBD per  
bottle

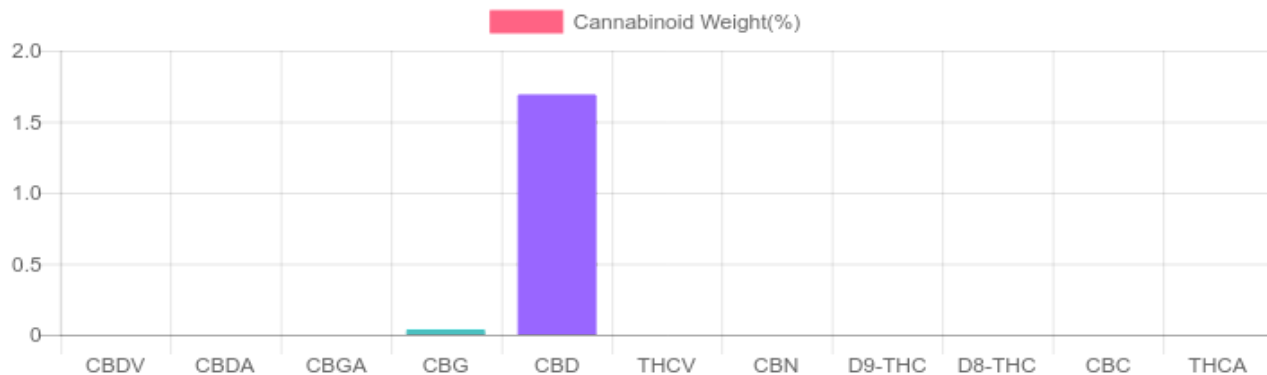
1 bottle = 30 ml per bottle x density (0.945)  
x Cannabinoid concentration

### Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA  
GSL SOP 400

UPLOADED: 02/04/2020 11:37:32

| Cannabinoids       | LOQ    | weight(%) | mg/g   | mg/bottle |
|--------------------|--------|-----------|--------|-----------|
| D9-THC             | 10 PPM | N/D       | N/D    | N/D       |
| THCA               | 10 PPM | N/D       | N/D    | N/D       |
| CBD                | 10 PPM | 1.691%    | 16.911 | 479.4     |
| 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 | 0.038%    | 0.380  | 10.8      |
| 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*         |        | 1.691%    | 16.911 | 479.4     |
| TOTAL CANNABINOIDS |        | 1.729%    | 17.291 | 490.2     |



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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1-833 TEST CBD



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20LL041K11 CtM 450mg



## Certificate of Analysis

Stillwater  
Laboratories<https://portal.a2la.org/scopepdf/4961-01.pdf>

## Sample Handling

test ID sample date 2/18/20 9:48 AM  
order 6598 labID OBM63 weight  
source

| Methods    | method       | equipment   |
|------------|--------------|-------------|
| weights    | MSP-7.3.1.3  | AUX120.1    |
| potency    | MSP-7.5.1.5  | LC-2030     |
| terpenes   | MSP-7.5.1.7  | QP2020/HS20 |
| pesticides | MSP-7.5.1.8  | LC-8060     |
| mycotoxins | MSP-7.5.1.8  | LC-8060     |
| microbial  | MSP-7.5.1.9  | Hardy Diag  |
| solvents   | MSP-7.5.1.6  | QP2020/HS20 |
| metals     | MSP-7.5.1.10 | ICPMS2030   |



| Potency | % | estimated error | Terpenes | % | estimated error | % | estimated error | % | estimated error |
|---------|---|-----------------|----------|---|-----------------|---|-----------------|---|-----------------|
|---------|---|-----------------|----------|---|-----------------|---|-----------------|---|-----------------|

potency  
not testedterpenes  
not tested / not required

| Solvents                              | MT limit | OBM63   | LOQ     | Pesticides (MT) | MT limit | OBM63    | LOQ    | Pesticides (other)  | OBM63    | LOQ    |
|---------------------------------------|----------|---------|---------|-----------------|----------|----------|--------|---------------------|----------|--------|
| solvents<br>not tested / not required |          |         |         | abamectin       |          | 0.00 ppm | <10ppb | acephate            | 0.00 ppm | <10ppb |
|                                       |          |         |         | acequinocyl     |          | 0.00 ppm | <10ppb | acetamiprid         | 0.00 ppm | <10ppb |
|                                       |          |         |         | bifenazate      |          | 0.00 ppm | <10ppb | aldicarb            | 0.00 ppm | <10ppb |
|                                       |          |         |         | bifenthrin      |          | 0.00 ppm | <10ppb | azoxystrobin        | 0.00 ppm | <10ppb |
|                                       |          |         |         | chlormequat cl. |          | 0.00 ppm | <10ppb | boscalid            | 0.00 ppm | <10ppb |
|                                       |          |         |         | cyfluthrin      |          | 0.00 ppm | <80ppb | carbaryl            | 0.00 ppm | <10ppb |
|                                       |          |         |         | diaminozide     |          | 0.00 ppm | <10ppb | carbofuran          | 0.00 ppm | <10ppb |
|                                       |          |         |         | etoxazole       |          | 0.00 ppm | <10ppb | chlorantraniliprole | 0.00 ppm | <10ppb |
|                                       |          |         |         | fenoxycarb      |          | 0.00 ppm | <10ppb | chlorpyrifos        | 0.00 ppm | <10ppb |
|                                       |          |         |         | imazalil        |          | 0.00 ppm | <10ppb | clofentezine        | 0.00 ppm | <10ppb |
|                                       |          |         |         | imidacloprid    |          | 0.00 ppm | <10ppb | cypermethrin        | 0.00 ppm | <10ppb |
|                                       |          |         |         | myclobutanil    |          | 0.00 ppm | <10ppb | diazinon            | 0.00 ppm | <10ppb |
|                                       |          |         |         | paclobutrazol   |          | 0.00 ppm | <10ppb | dichlorvos          | 0.00 ppm | <10ppb |
|                                       |          |         |         | pyrethrins      |          | 0.00 ppm | <10ppb | dimethoate          | 0.00 ppm | <10ppb |
|                                       |          |         |         | spinosad        |          | 0.00 ppm | <10ppb | etofenprox          | 0.00 ppm | <10ppb |
|                                       |          |         |         | spiromesifen    |          | 0.00 ppm | <10ppb | fenpyroximate       | 0.00 ppm | <10ppb |
|                                       |          |         |         | spirotetramat   |          | 0.00 ppm | <10ppb | flupyradifurone     | 0.00 ppm | <10ppb |
|                                       |          |         |         | trifloxystrobin |          | 0.00 ppm | <10ppb | flonicamid          | 0.00 ppm | <10ppb |
| Toxic Metals                          | MT limit | OBM63   | LOQ     |                 |          |          |        | fludioxonil         | 0.00 ppm | <10ppb |
|                                       | arsenic  | 2 ppm   | 0.0 ppm |                 |          |          |        | hexythiazox         | 0.00 ppm | <10ppb |
|                                       | cadmium  | 0.8 ppm | 0.0 ppm |                 |          |          |        | kresoxym-methyl     | 0.00 ppm | <10ppb |
|                                       | lead     | 1.2 ppm | 0.0 ppm |                 |          |          |        | malathion           | 0.00 ppm | <10ppb |
| Comments                              | mercury  | 0.4 ppm | 0.0 ppm |                 |          |          |        | metalaxyl           | 0.00 ppm | <10ppb |
|                                       |          |         |         |                 |          |          |        | methiocarb          | 0.00 ppm | <10ppb |
|                                       |          |         |         |                 |          |          |        | methomyl            | 0.00 ppm | <10ppb |
|                                       |          |         |         |                 |          |          |        | oxamyl              | 0.00 ppm | <10ppb |
|                                       |          |         |         |                 |          |          |        | permethrins         | 0.00 ppm | <10ppb |
|                                       |          |         |         |                 |          |          |        | phosmet             | 0.00 ppm | <10ppb |
|                                       |          |         |         |                 |          |          |        | piperonyl butoxide  | 0.00 ppm | <10ppb |
|                                       |          |         |         |                 |          |          |        | prallethrin         | 0.00 ppm | <10ppb |
|                                       |          |         |         |                 |          |          |        | propiconazole       | 0.00 ppm | <10ppb |
|                                       |          |         |         |                 |          |          |        | pyridaben           | 0.00 ppm | <10ppb |
|                                       |          |         |         |                 |          |          |        | spiroxamine         | 0.00 ppm | <10ppb |
|                                       |          |         |         |                 |          |          |        | tebuconazole        | 0.00 ppm | <10ppb |
|                                       |          |         |         |                 |          |          |        | thiacloprid         | 0.00 ppm | <10ppb |
|                                       |          |         |         |                 |          |          |        | thiamethoxam        | 0.00 ppm | <10ppb |

• All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]<sub>HPLC</sub> x volume<sub>dilution</sub>/m<sub>dry</sub>. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)<sub>GCMS</sub> / m<sub>dry</sub>. ••• Decarboxyated cannabinoid concentration is calculated from the equation XXX<sub>total</sub> = 0.877 x XXX<sub>a</sub> + XXX ••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula S<sub>y</sub><sup>2</sup> = (f/i) S<sub>e</sub><sup>2</sup> where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t<sub>CL90</sub> x S<sub>y</sub>. Sampling error is not

Certified by:

Kyle Larson, MSc (Biology)

Deputy Director  
6073 US93N, Olney MT 59927  
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Printed 3/4/2020 3:40 PM



# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104

Order #: 37180  
Order Name: BSO2.092519.A  
Batch#: BSO2.092519.A  
Received: 09/27/2019  
Completed: 10/01/2019



### Sample



N/D  
D9-THC

76.48%  
Total CBD

### Cannabinoids Test

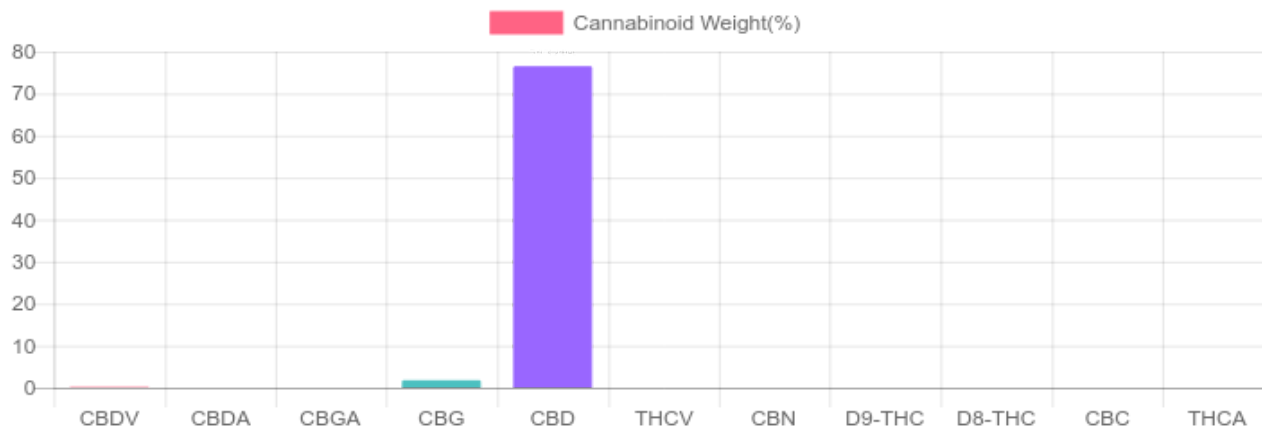
SHIMADZU INTEGRATED UPLC-PDA

GSL SOP 400

PREPARED: 09/27/2019 22:34:39

UPLOADED: 09/30/2019 12:49:03

| Cannabinoids       | LOQ    | weight(%) | mg/g   |
|--------------------|--------|-----------|--------|
| D9-THC             | 10 PPM | N/D       | N/D    |
| THCA               | 10 PPM | N/D       | N/D    |
| CBD                | 10 PPM | 76.48%    | 764.84 |
| CBDA               | 20 PPM | N/D       | N/D    |
| CBDV               | 20 PPM | 0.11%     | 1.10   |
| CBC                | 10 PPM | N/D       | N/D    |
| CBN                | 10 PPM | N/D       | N/D    |
| CBG                | 10 PPM | 1.79%     | 17.90  |
| CBGA               | 20 PPM | N/D       | N/D    |
| D8-THC             | 10 PPM | N/D       | N/D    |
| THCV               | 10 PPM | N/D       | N/D    |
| TOTAL D9-THC       |        | N/D       | N/D    |
| TOTAL CBD*         |        | 76.48%    | 764.84 |
| TOTAL CANNABINOIDS |        | 78.38%    | 783.84 |



Reporting Limit 100 ppm

\*Total CBD = CBD + CBDA x 0.877

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



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*Dr. Andrew Hall*

Dr. Andrew Hall, Ph.D., CSO & Lab Director

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# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104

Order #: 37180  
Order Name: BSO2.092519.A  
Batch#: BSO2.092519.A  
Received: 09/27/2019  
Completed: 10/01/2019



### TERPENES: TOTAL (0.027%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

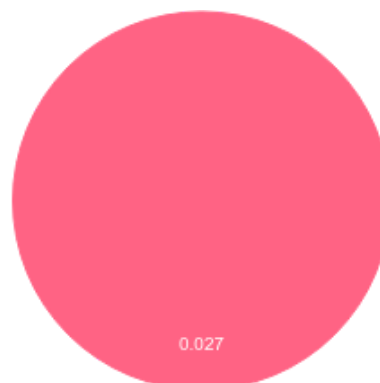
GSL SOP 404

Prepared: 09/27/2019 22:57:12

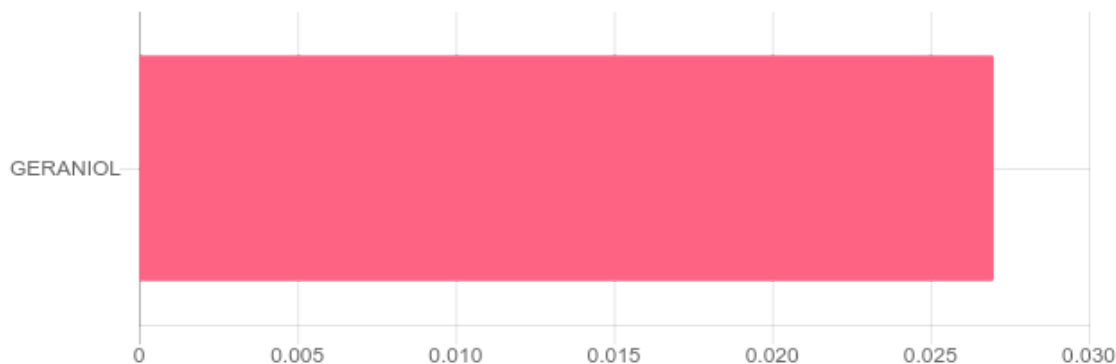
Uploaded: 09/30/2019 17:51:50

| Terpene  | Results (%) | LOQ (%) | LOD (%) |
|----------|-------------|---------|---------|
| GERANIOL | 0.027%      | 0.0067% | 0.0063% |

### Terpenes Breakdown



### Top Terpenes Results:



### Tested for but not present:

ALPHA-PINENE, CAMPHENE, BETA-MYRCENE, BETA-PINENE, 3-CARENE, ALPHA-TERPINENE, TRANS-BETA-OCIMENE, LIMONENE, P-CYMENE, CIS-BETA-OCIMENE, EUCALYPTOL, GAMMA-TERPINENE, TERPINOLENE, LINALOOL, ISOPULEGOL, CARYOPHYLLENE, HUMULENE, CIS-NEROLIDOL, TRANS-NEROLIDOL, GUAJOL, CARYOPHYLLENE OXIDE, ALPHA-BISABOLOL



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## ISO/IEC 17025:2017 ACCREDITATION #103104

Order #: 37180  
Order Name: BSO2.092519.A  
Batch#: BSO2.092519.A  
Received: 09/27/2019  
Completed: 10/01/2019



### PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 09/27/2019 22:39:46

UPLOADED: 09/30/2019 20:39:11

LCMS-MS - Shimadzu LCMS-8060

| Pesticide           | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) | Pesticide       | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|---------------------|--------------------|---------------|-----------|-----------|-----------------|--------------------|---------------|-----------|-----------|
| ABAMECTIN B1A       | 0.100              | N/D           | 0.005     | 0.001     | IMAZALIL        | 0.100              | N/D           | 0.005     | 0.001     |
| ACEPHATE            | 0.100              | N/D           | 0.001     | 0.001     | IMIDACLOPRID    | 5.000              | N/D           | 0.005     | 0.001     |
| ACEQUINOCYL         | 0.100              | N/D           | 0.001     | 0.001     | KRESOXIM-METHYL | 0.100              | N/D           | 0.010     | 0.005     |
| ACETAMIPRID         | 0.100              | N/D           | 0.005     | 0.001     | MALATHION       | 0.500              | N/D           | 0.005     | 0.001     |
| ALDICARB            | 0.100              | N/D           | 0.005     | 0.001     | METALAXYL       | 2.000              | N/D           | 0.001     | 0.001     |
| AZOXYSTROBIN        | 0.100              | N/D           | 0.001     | 0.001     | METHIOCARB      | 0.100              | N/D           | 0.005     | 0.001     |
| BIFENAZATE          | 0.100              | N/D           | 0.005     | 0.001     | METHOMYL        | 1.000              | N/D           | 0.001     | 0.001     |
| BIFENTHRIN          | 3.000              | N/D           | 0.005     | 0.001     | MEVINPHOS       | 0.100              | N/D           | 0.001     | 0.001     |
| BOSCALID            | 0.100              | N/D           | 0.005     | 0.001     | MYCLOBUTANIL    | 0.100              | N/D           | 0.005     | 0.001     |
| CARBARYL            | 0.500              | N/D           | 0.003     | 0.001     | NALED           | 0.100              | N/D           | 0.005     | 0.001     |
| CARBOFURAN          | 0.100              | N/D           | 0.001     | 0.001     | OXAMYL          | 0.500              | N/D           | 0.001     | 0.001     |
| CHLORANTRANILIPROLE | 10.000             | N/D           | 0.005     | 0.005     | PACLOBUTRAZOL   | 0.100              | N/D           | 0.005     | 0.001     |
| CHLORPYRIFOS        | 0.100              | N/D           | 0.001     | 0.001     | PERMETHRINS     | 0.500              | N/D           | 0.005     | 0.001     |
| CLOFENTEZINE        | 0.100              | N/D           | 0.001     | 0.001     | PHOSMET         | 0.100              | N/D           | 0.005     | 0.001     |
| DAMINOZIDE          | 0.100              | N/D           | 0.005     | 0.001     | PIPERONYL       | 3.000              | N/D           | 0.001     | 0.001     |
| DIAZANON            | 0.100              | N/D           | 0.001     | 0.001     | BUTOXIDE        |                    |               |           |           |
| DICHLORVOS          | 0.100              | N/D           | 0.005     | 0.001     | PRALLETHRIN     | 0.100              | N/D           | 0.005     | 0.005     |
| DIMETHOATE          | 0.100              | N/D           | 0.001     | 0.001     | PROPICONAZOLE   | 0.100              | N/D           | 0.010     | 0.005     |
| DIMETHOMORPH        | 2.000              | N/D           | 0.005     | 0.001     | PROPOXUR        | 0.100              | N/D           | 0.001     | 0.001     |
| ETHOPROPHOS         | 0.100              | N/D           | 0.001     | 0.001     | PYRETHRINS      |                    |               |           |           |
| ETOFENPROX          | 0.100              | N/D           | 0.001     | 0.001     | (PYRETHRIN I)   | 0.500              | N/D           | 0.005     | 0.005     |
| ETOXAZOLE           | 0.100              | N/D           | 0.010     | 0.005     | PYRIDABEN       | 0.100              | N/D           | 0.005     | 0.001     |
| FENHEXAMID          | 0.100              | N/D           | 0.005     | 0.001     | SPINETORAM      | 0.100              | N/D           | 0.001     | 0.001     |
| FENOXYCARB          | 0.100              | N/D           | 0.005     | 0.001     | SPINOSAD        | 0.100              | N/D           | 0.001     | 0.001     |
| FENPYROXIMATE       | 0.100              | N/D           | 0.001     | 0.001     | SPIROMESIFEN    | 0.100              | N/D           | 0.005     | 0.001     |
| FIPRONIL            | 0.100              | N/D           | 0.003     | 0.001     | SPIROTETRAMAT   | 0.100              | N/D           | 0.001     | 0.001     |
| FLONICAMID          | 0.100              | N/D           | 0.025     | 0.010     | SPIROXAMINE     | 0.100              | N/D           | 0.001     | 0.001     |
| FLUDIOXONIL         | 0.100              | N/D           | 0.003     | 0.001     | TEBUCONAZOLE    | 0.100              | N/D           | 0.005     | 0.001     |
| HEXYTHIAZOX         | 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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## ISO/IEC 17025:2017 ACCREDITATION #103104

Order #: 37180  
Order Name: BSO2.092519.A  
Batch#: BSO2.092519.A  
Received: 09/27/2019  
Completed: 10/01/2019



### RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

Prepared: 09/27/2019 22:31:38

Uploaded: 09/30/2019 18:55:54

| Residual Solvent  | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-------------------|--------------------|---------------|-----------|-----------|
| 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       |
| 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              | N/D           | 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              | B/LOQ         | 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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Accreditation #103104



Dr. Andrew Hall, Ph.D., CSO & Lab Director

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# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104

Order #: 37180  
Order Name: BSO2.092519.A  
Batch#: BSO2.092519.A  
Received: 09/27/2019  
Completed: 10/01/2019



### Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030  
GSL SOP 403

Uploaded: 09/30/2019 21:50:39

| 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



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