

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 37012  
 Order Name: Koi Naturals  
 Peppermint 250 mg  
 Batch#: 9273NPM250  
 Received: 10/03/2019  
 Completed: 10/11/2019



Koi CBD LLC  
 14631 Best Ave  
 Norwalk California, 90650  
 (877) 774-4779  
 tinh@koicbd.com



### Sample



N/D  
 D9-THC

0.922%  
 Total CBD

294.3 mg  
 Cannabinoids per  
 unit

287.8 mg  
 CBD per  
 unit

1 unit = 30 ml per unit x density (1.04) x  
 Cannabinoid concentration

### Cannabinoids Test

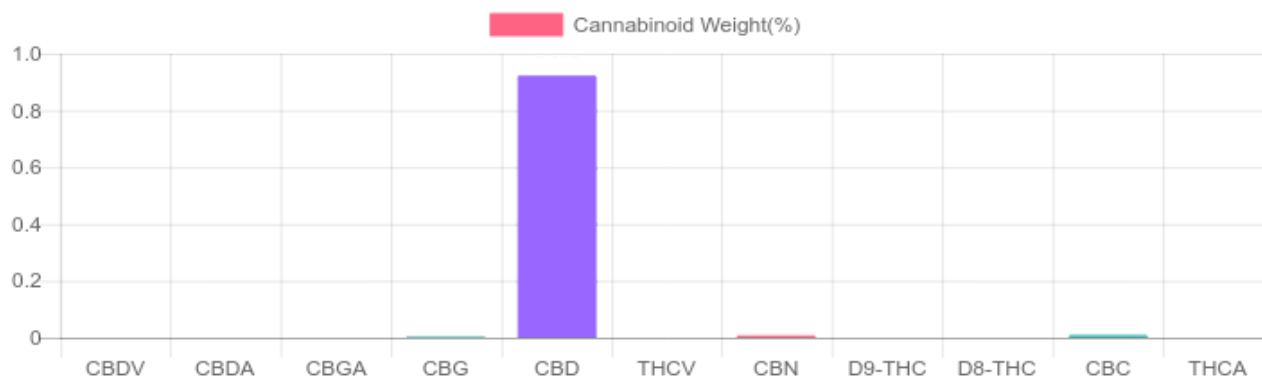
SHIMADZU INTEGRATED UPLC-PDA

GSL SOP 400

PREPARED: 10/04/2019 20:21:49

UPLOADED: 10/07/2019 12:36:22

| 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 | 0.922%    | 9.223 | 287.8   |
| CBDA               | 20 PPM | N/D       | N/D   | N/D     |
| CBDV               | 20 PPM | N/D       | N/D   | N/D     |
| CBC                | 10 PPM | 0.010%    | 0.096 | 3.0     |
| CBN                | 10 PPM | 0.008%    | 0.075 | 2.3     |
| CBG                | 10 PPM | 0.004%    | 0.038 | 1.2     |
| 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*         |        | 0.922%    | 9.223 | 287.8   |
| TOTAL CANNABINOIDS |        | 0.944%    | 9.432 | 294.3   |



Reporting Limit 10 ppm

\*Total CBD = CBD + CBDA x 0.877

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



4001 SW 47th Avenue Suite 208  
 Davie, FL 33314  
 1-833-TEST-CBD  
 info@greenscientificlabs.com



Accreditation #103104



*Dr. Andrew Hall*

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

Green Scientific Labs uses its best efforts to deliver high quality results and to verify that the data contained therein are based on sound scientific judgment and levels listed are guidelines only and all data was reported based on standard laboratory procedures and deviations. However Green Scientific Labs makes no warranties or claims to that effect and further shall not be liable for any damage or misrepresentation that may result from the use or misuse of the data contained herein in any way. Further, Green Scientific Labs makes no claims regarding representations of the analyzed sample to the larger batch from which it was taken. Data and information in this report are intended solely for the individual(s) for whom samples were submitted and as part of our strict confidentiality policy, Green Scientific Labs can only discuss results with the original client of record.

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 37012  
Order Name: Koi Naturals  
Peppermint 250 mg  
Batch#: 9273NPM250  
Received: 10/03/2019  
Completed: 10/11/2019



Koi CBD LLC  
14631 Best Ave  
Norwalk California, 90650  
(877) 774-4779  
thinh@koicbd.com



### TERPENES: TOTAL (0.052%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

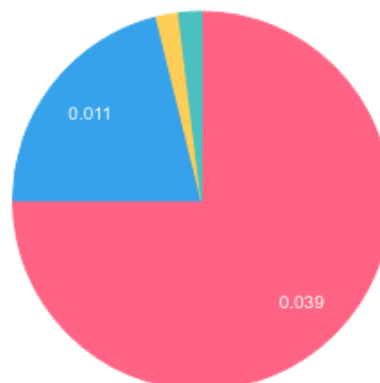
GSL SOP 404

Prepared: 10/05/2019 00:00:36

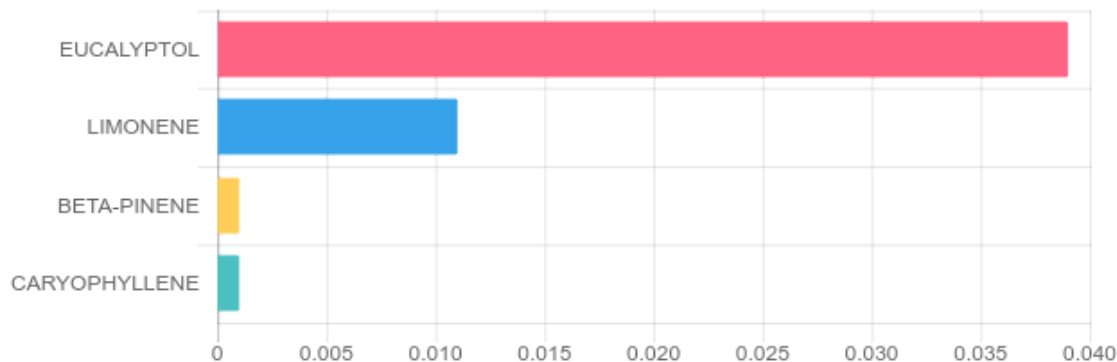
Uploaded: 10/07/2019 18:32:03

| Terpene       | Results (%) | LOQ (%) | LOD (%) |
|---------------|-------------|---------|---------|
| BETA-PINENE   | B/LOQ       | 0.0067% | 0.0063% |
| CARYOPHYLLENE | B/LOQ       | 0.0067% | 0.0063% |
| EUCALYPTOL    | 0.039%      | 0.0067% | 0.0063% |
| LIMONENE      | 0.011%      | 0.0067% | 0.0063% |

### Terpenes Breakdown



### Top Terpenes Results:



### Tested for but not present:

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



4001 SW 47th Avenue Suite 208  
Davie, FL 33314  
1-833-TEST-CBD  
info@greenscientificlabs.com



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

Green Scientific Labs uses its best efforts to deliver high quality results and to verify that the data contained therein are based on sound scientific judgment and levels listed are guidelines only and all data was reported based on standard laboratory procedures and deviations. However Green Scientific Labs makes no warranties or claims to that effect and further shall not be liable for any damage or misrepresentation that may result from the use or misuse of the data contained herein in any way. Further, Green Scientific Labs makes no claims regarding representations of the analyzed sample to the larger batch from which it was taken. Data and information in this report are intended solely for the individual(s) for whom samples were submitted and as part of our strict confidentiality policy, Green Scientific Labs can only discuss results with the original client of record.

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 37012  
 Order Name: Koi Naturals  
 Peppermint 250 mg  
 Batch#: 9273NPM250  
 Received: 10/03/2019  
 Completed: 10/11/2019



Koi CBD LLC  
 14631 Best Ave  
 Norwalk California, 90650  
 (877) 774-4779  
 tinh@koicbd.com



### PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 10/04/2019 21:30:28

UPLOADED: 10/08/2019 13:22:21

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     |

| 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     |

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     |
| DIAZANON            | 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     |

| 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           | 0.010     | 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      |                    |               |           |           |
| (PYRETHRIN I)   | 0.500              | N/D           | 0.005     | 0.005     |
| 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



4001 SW 47th Avenue Suite 208  
 Davie, FL 33314  
 1-833-TEST-CBD  
 info@greenscientificlabs.com



Accreditation #103104



*Dr. Andrew Hall*

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

Green Scientific Labs uses its best efforts to deliver high quality results and to verify that the data contained therein are based on sound scientific judgment and levels listed are guidelines only and all data was reported based on standard laboratory procedures and deviations. However Green Scientific Labs makes no warranties or claims to that effect and further shall not be liable for any damage or misrepresentation that may result from the use or misuse of the data contained herein in any way. Further, Green Scientific Labs makes no claims regarding representations of the analyzed sample to the larger batch from which it was taken. Data and information in this report are intended solely for the individual(s) for whom samples were submitted and as part of our strict confidentiality policy, Green Scientific Labs can only discuss results with the original client of record.

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 37012  
Order Name: Koi Naturals  
Peppermint 250 mg  
Batch#: 9273NPM250  
Received: 10/03/2019  
Completed: 10/11/2019



Koi CBD LLC  
14631 Best Ave  
Norwalk California, 90650  
(877) 774-4779  
thinh@koicbd.com



### RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

Prepared: 10/04/2019 19:23:47

Uploaded: 10/10/2019 17:43:59

| 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              | 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        |



4001 SW 47th Avenue Suite 208  
Davie, FL 33314  
1-833-TEST-CBD  
info@greenscientificlabs.com



Accreditation #103104



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

Green Scientific Labs uses its best efforts to deliver high quality results and to verify that the data contained therein are based on sound scientific judgment and levels listed are guidelines only and all data was reported based on standard laboratory procedures and deviations. However Green Scientific Labs makes no warranties or claims to that effect and further shall not be liable for any damage or misrepresentation that may result from the use or misuse of the data contained herein in any way. Further, Green Scientific Labs makes no claims regarding representations of the analyzed sample to the larger batch from which it was taken. Data and information in this report are intended solely for the individual(s) for whom samples were submitted and as part of our strict confidentiality policy, Green Scientific Labs can only discuss results with the original client of record.

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 37012  
 Order Name: Koi Naturals  
 Peppermint 250 mg  
 Batch#: 9273NPM250  
 Received: 10/03/2019  
 Completed: 10/11/2019



Koi CBD LLC  
 14631 Best Ave  
 Norwalk California, 90650  
 (877) 774-4779  
 tinh@koicbd.com



### Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 10/11/2019 11:07:59

PCR - Agilent AriaMX

| Test                   | Test Method Used | Device Used | LOD               | Allowable Criteria | Actual Result   | Pass/Fail |
|------------------------|------------------|-------------|-------------------|--------------------|-----------------|-----------|
| 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      |
| ASPERGILLUS            | USP 61/62†       | ARIAMX PCR  | ASP_LOD***        | PRESENCE / ABSENT  | BELOW LOD       | PASS      |
| LISTERIA MONOCYTOGENES |                  | ARIAMX PCR  | 2 COPIES OF DNA   | PRESENCE / ABSENT  | BELOW LOD       | PASS      |
| YEAST AND MOLD         | USP 61/62†       | ARIAMX PCR  | 363.05518 CFU/G** | 1,000              | BELOW THRESHOLD | PASS      |
| TOTAL AEROBIC BACTERIA | USP 61/62†       | ARIAMX PCR  | 0.25316 CFU/G**   | 10,000             | BELOW THRESHOLD | PASS      |
| COLIFORM               | USP 61/62†       | ARIAMX PCR  | 3.41539 CFU/G**   | 100                | BELOW THRESHOLD | PASS      |
| ENTEROBACTERIACEAE     | USP 61/62†       | ARIAMX PCR  | 0.32951 CFU/G**   | 100                | BELOW THRESHOLD | PASS      |

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

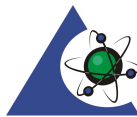
\* STEC and Salmonella run as Multiplex

\*\* CFU/g Calculation based on Select Category Type Gummy MIP/Extract Flower matrix

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



4001 SW 47th Avenue Suite 208  
 Davie, FL 33314  
 1-833-TEST-CBD  
 info@greenscientificlabs.com



Accreditation #103104



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

Green Scientific Labs uses its best efforts to deliver high quality results and to verify that the data contained therein are based on sound scientific judgment and levels listed are guidelines only and all data was reported based on standard laboratory procedures and deviations. However Green Scientific Labs makes no warranties or claims to that effect and further shall not be liable for any damage or misrepresentation that may result from the use or misuse of the data contained herein in any way. Further, Green Scientific Labs makes no claims regarding representations of the analyzed sample to the larger batch from which it was taken. Data and information in this report are intended solely for the individual(s) for whom samples were submitted and as part of our strict confidentiality policy, Green Scientific Labs can only discuss results with the original client of record.

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 37012  
Order Name: Koi Naturals  
Peppermint 250 mg  
Batch#: 9273NPM250  
Received: 10/03/2019  
Completed: 10/11/2019



Koi CBD LLC  
14631 Best Ave  
Norwalk California, 90650  
(877) 774-4779  
thinh@koicbd.com



### Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060  
GSL SOP 401

Uploaded: 10/08/2019 13:22:21

| 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

### Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

Uploaded: 10/10/2019 18:21:14

#### Water

0.45

### Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030  
GSL SOP 403

Uploaded: 10/07/2019 22:11:58

| 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: 10/10/2019 18:27:15

Pass: No Foreign Materials Detected



4001 SW 47th Avenue Suite 208  
Davie, FL 33314  
1-833-TEST-CBD  
info@greenscientificlabs.com



Accreditation #103104



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

Green Scientific Labs uses its best efforts to deliver high quality results and to verify that the data contained therein are based on sound scientific judgment and levels listed are guidelines only and all data was reported based on standard laboratory procedures and deviations. However Green Scientific Labs makes no warranties or claims to that effect and further shall not be liable for any damage or misrepresentation that may result from the use or misuse of the data contained herein in any way. Further, Green Scientific Labs makes no claims regarding representations of the analyzed sample to the larger batch from which it was taken. Data and information in this report are intended solely for the individual(s) for whom samples were submitted and as part of our strict confidentiality policy, Green Scientific Labs can only discuss results with the original client of record.