



CERTIFICATE OF ANALYSIS



Customer: The Spectrum Labs - CANDLER, NC 28715

Order #: 709572
Batch #: OSF.CRUDE.2.1
Order Date: 11/27/2019
Collection Date: 11/27/2019
Report Date: 12/05/2019

Specimen Type: Extract
Description: CRUDE OIL
Extracted From: BaOx
Method: SOP-3

Initial Gross Weight: 66903.00(mg)
Specimen Weight: 51.97(mg)

Potency - 11

(HPLC)

| Analyte | Result (mg/g) | (%) | LOQ (%) | Analyte | Result (mg/g) | (%) | LOQ (%) | Analyte | Result (mg/g) | (%) | LOQ (%) |
|-----------|---------------|-------|---------|-------------|---------------|--------|---------|-------------|---------------|--------|---------|
| CBC | 19.910 | 1.991 | 0.001 | CBD | 356.400 | 35.640 | 0.001 | CBDA | 295.300 | 29.530 | 0.001 |
| CBDV | | ND | 0.001 | CBG | 14.590 | 1.459 | 0.001 | CBGA | 15.600 | 1.560 | 0.001 |
| CBN | | ND | 0.001 | Delta-8-THC | | ND | 0.001 | Delta-9-THC | 23.770 | 2.377 | 0.001 |
| THCA-A | 2.120 | 0.212 | 0.001 | THCV | | ND | 0.001 | Total CBD | 615.378 | 61.538 | 0.001 |
| Total THC | 25.629 | 2.563 | 0.001 | | | | | | | | |

Pesticides (Passed)

(LCMS/MS)

| Analyte | Action Level (ppb) | Result (ppb) | LOQ (ppb) | Analyte | Action Level (ppb) | Result (ppb) | LOQ (ppb) | Analyte | Action Level (ppb) | Result (ppb) | LOQ (ppb) |
|------------------|--------------------|--------------|-----------|------------------|--------------------|--------------|-----------|-------------------------|--------------------|--------------|-----------|
| Abamectin | 100.000 | <LOQ | 30.000 | Acephate | 100.000 | <LOQ | 30.000 | Acequinocyl | 100.000 | <LOQ | 48.000 |
| Acetamiprid | 100.000 | <LOQ | 30.000 | Aldicarb | 50.000 | <LOQ | 30.000 | Azoxystrobin | 50.000 | <LOQ | 30.000 |
| Bifenazate | 100.000 | <LOQ | 30.000 | Bifenthrin | 100.000 | <LOQ | 30.000 | Chlorfenapyr | 50.000 | <LOQ | 30.000 |
| Chlorpyrifos | 100.000 | <LOQ | 30.000 | Clofentezine | 200.000 | <LOQ | 30.000 | Coumaphos | 50.000 | <LOQ | 30.000 |
| Cyfluthrin | 100.000 | <LOQ | 30.000 | Cypermethrin | 500.000 | <LOQ | 30.000 | Daminozide | 500.000 | <LOQ | 30.000 |
| DDVP(Dichlorvos) | 100.000 | <LOQ | 30.000 | Diazinon | 50.000 | <LOQ | 30.000 | Dimethoate | 50.000 | <LOQ | 30.000 |
| Dimethomorph | 50.000 | <LOQ | 30.000 | Ethoprop(hos) | 50.000 | <LOQ | 30.000 | Etofenprox | 50.000 | <LOQ | 30.000 |
| Etoxazole | 50.000 | <LOQ | 30.000 | Fenhexamid | 100.000 | <LOQ | 30.000 | Fenoxycarb | 50.000 | <LOQ | 30.000 |
| Fipronil | 50.000 | <LOQ | 30.000 | Flonicamid | 400.000 | <LOQ | 30.000 | Fludioxonil | 100.000 | <LOQ | 30.000 |
| Hexythiazox | 250.000 | <LOQ | 30.000 | Imazalil | 100.000 | <LOQ | 30.000 | Imidacloprid | 100.000 | <LOQ | 30.000 |
| Kresoxim Methyl | 100.000 | <LOQ | 30.000 | Malathion A | 200.000 | <LOQ | 30.000 | Metalaxyl | 50.000 | <LOQ | 30.000 |
| Methiocarb | 50.000 | <LOQ | 30.000 | Methomyl | 100.000 | <LOQ | 30.000 | Mevinphos | 50.000 | <LOQ | 30.000 |
| Myclobutanil | 100.000 | <LOQ | 30.000 | Naled | 250.000 | <LOQ | 30.000 | Oxamyl | 250.000 | <LOQ | 30.000 |
| Paclbutrazol | 50.000 | <LOQ | 30.000 | Parathion-methyl | 100.000 | <LOQ | 30.000 | Pentachloronitrobenzene | 50.000 | <LOQ | 30.000 |
| Permethrin | 100.000 | <LOQ | 30.000 | Phosmet | 100.000 | <LOQ | 30.000 | Piperonylbutoxide | 3,000.000 | <LOQ | 30.000 |
| Prallethrin | 100.000 | <LOQ | 30.000 | Propiconazole | 100.000 | <LOQ | 30.000 | Propoxur | 100.000 | <LOQ | 30.000 |
| Pyrethrins | 500.000 | <LOQ | 30.000 | Pvridaben | 200.000 | <LOQ | 30.000 | Spinetoram | 200.000 | <LOQ | 30.000 |
| Spinosyn A | 100.000 | <LOQ | 30.000 | Spinosyn D | 100.000 | <LOQ | 30.000 | Spiromesifen | 100.000 | <LOQ | 30.000 |
| Spirotetramat | 100.000 | <LOQ | 30.000 | Spiroxamine | 50.000 | <LOQ | 30.000 | Tebuconazole | 50.000 | <LOQ | 30.000 |
| Thiacloprid | 50.000 | <LOQ | 30.000 | Thiamethoxam | 50.000 | <LOQ | 30.000 | Trifloxystrobin | 100.000 | <LOQ | 30.000 |

Xueli Gao, Ph.D., DABT
Lab Toxicologist

Aixia Sun, D.H.Sc., M.Sc., B.Sc., MT (AAB)
Principal Scientist

* Total CBD = CBD + (CBD-A * 0.877). Total THC = THCA-A * 0.877 + Delta 9 THC, ND = <LOQ, T-Caryophyllene = Trans-Caryophyllene, <LOQ = Less Than Limit of Quantitation, QNS = Quantity Not Sufficient. (%) = Percent, (ppm) = Parts per Million, (ppb) = Parts per Billion, (µg/Kg) = Microgram per Kilogram, (mg/g) = Milligram per Gram, ppm = (µg/g), ppb = (µg/kg).

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CERTIFICATE OF ANALYSIS



Customer: The Spectrum Labs - CANDLER, NC 28715

Order #: 709572
Batch #: OSF.CRUDE.2.1
Order Date: 11/27/2019
Collection Date: 11/27/2019
Report Date: 12/05/2019

Specimen Type: Extract
Description: CRUDE OIL
Extracted From: BaOx
Method: SOP-3

Initial Gross Weight: 66903.00(mg)
Specimen Weight: 51.97(mg)

Terpenes - FL

(GC/GCMS)

| Analyte | Result (mg/g) | (%) | LOQ (%) | Analyte | Result (mg/g) | (%) | LOQ (%) | Analyte | Result (mg/g) | (%) | LOQ (%) |
|---------------------|---------------|-------|---------|------------------|---------------|-------|---------|---------------------|---------------|-------|---------|
| (+)-Cedrol | | ND | 0.001 | (R)-(+)-Limonene | | ND | 0.001 | 3-Carene | | ND | 0.001 |
| Alpha-Bisabolol | 1.480 | 0.148 | 0.001 | alpha-Cedrene | 1.980 | 0.198 | 0.001 | alpha-Humulene | 2.860 | 0.286 | 0.001 |
| alpha-Phellandrene | | ND | 0.001 | alpha-Pinene | | ND | 0.001 | alpha-Terpinene | | ND | 0.001 |
| beta-Myrcene | 2.220 | 0.222 | 0.001 | beta-Pinene | | ND | 0.001 | Borneol | | ND | 0.001 |
| Camphene | | ND | 0.001 | Camphors | | ND | 0.001 | Carvophyllene oxide | 5.080 | 0.508 | 0.001 |
| cis-Nerolidol | | ND | 0.001 | Eucalyptol | | ND | 0.001 | Farnesene | | ND | 0.001 |
| Fenchone | | ND | 0.001 | Fenchyl Alcohol | 1.510 | 0.151 | 0.001 | gamma-Terpinene | | ND | 0.001 |
| Geraniol | | ND | 0.001 | Geranyl acetate | | ND | 0.001 | Guaiol | 1.640 | 0.164 | 0.001 |
| Hexahydrothymol | | ND | 0.001 | Isoborneol | | ND | 0.001 | Isopulegol | | ND | 0.001 |
| Linalool | | ND | 0.001 | Nerol | | ND | 0.001 | Ocimene | | ND | 0.001 |
| Pulegone | | ND | 0.001 | Sabinene | | ND | 0.001 | Sabinene Hydrate | | ND | 0.001 |
| Terpineol | | ND | 0.001 | Terpinolene | | ND | 0.001 | trans-beta-Ocimene | | ND | 0.001 |
| trans-Caryophyllene | 11.490 | 1.149 | 0.001 | trans-Nerolidol | | ND | 0.001 | Valencene | | ND | 0.001 |

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Specimen Type: Extract
Description: CRUDE OIL
Extracted From: BaOx
Method: SOP-3

Initial Gross Weight: 66903.00(mg)
Specimen Weight: 51.97(mg)

Residual Solvents (Passed)

| | | | | | | | | (GC/GCMS) | | | |
|-------------|--------------------|--------------|-----------|----------|--------------------|--------------|-----------|------------|--------------------|--------------|-----------|
| Analyte | Action Level (ppm) | Result (ppm) | LOQ (ppm) | Analyte | Action Level (ppm) | Result (ppm) | LOQ (ppm) | Analyte | Action Level (ppm) | Result (ppm) | LOQ (ppm) |
| Acetone | 5,000.000 | Passed | 87.900 | Benzene | 1.600 | <LOQ | 1.600 | Chloroform | 53.000 | <LOQ | 53.000 |
| Ethanol | 5,000.000 | Passed | 26.700 | Hexane | 60.000 | <LOQ | 36.600 | I-Butane | 5,000.000 | <LOQ | 100.000 |
| Isopropanol | 5,000.000 | <LOQ | 52.300 | Methanol | 3,000.000 | <LOQ | 87.900 | N-Butane | 5,000.000 | <LOQ | 200.000 |
| Pentane | 5,000.000 | <LOQ | 389.500 | Toluene | 890.000 | <LOQ | 38.400 | | | | |

Heavy Metals (Passed)

| | | | | | | | | (ICP-MS) | | | |
|--------------|--------------------|--------------|-----------|--------------|--------------------|--------------|-----------|-----------|--------------------|--------------|-----------|
| Analyte | Action Level (ppb) | Result (ppb) | LOQ (ppb) | Analyte | Action Level (ppb) | Result (ppb) | LOQ (ppb) | Analyte | Action Level (ppb) | Result (ppb) | LOQ (ppb) |
| Arsenic (As) | 500.000 | <LOQ | 100.000 | Cadmium (Cd) | 500.000 | <LOQ | 100.000 | Lead (Pb) | 500.000 | <LOQ | 100.000 |
| Mercury (Hg) | 500.000 | <LOQ | 100.000 | | | | | | | | |

Mycotoxins (Passed)

| | | | | | | | | (LCMS/MS) | | | |
|--------------|--------------------|--------------|-----------|-----------------|--------------------|--------------|-----------|--------------|--------------------|--------------|-----------|
| Analyte | Action Level (ppb) | Result (ppb) | LOQ (ppb) | Analyte | Action Level (ppb) | Result (ppb) | LOQ (ppb) | Analyte | Action Level (ppb) | Result (ppb) | LOQ (ppb) |
| Aflatoxin B1 | | <LOQ | 6.000 | Aflatoxin B2 | | <LOQ | 6.000 | Aflatoxin G1 | | <LOQ | 6.000 |
| Aflatoxin G2 | | <LOQ | 6.000 | Aflatoxin Total | 20.000 | <LOQ | 6.000 | Ochratoxin A | 20.000 | <LOQ | 12.000 |

Pathogenic Microbiology (Passed)

| | | | | | | (Micro Array) | |
|---------------------|---------|-----------------------|---------|-------------------|---------|---------------|--|
| Analyte | Result | Analyte | Result | Analyte | Result | | |
| Aspergillus Flavus | Absence | Aspergillus Fumigatus | Absence | Aspergillus Niger | Absence | | |
| Aspergillus Terreus | Absence | Salmonella | Absence | STEC E. Coli | Absence | | |

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