

Certificate of Analysis Cover Page

Twin Arbor Analytical

3990 Ruth Way Suite D
Paso Robles, CA 93446
(805) 369-2123



PREPARED FOR:

The Organica Company, LLC.
120 I Street - Suite 301
Sacramento, CA 95814

Report Date 5/21/2020
Sample ID D24A
Sample Name 2500MG Full Spectrum CBD Oil

Results

Analysis

Cannabinoids

CBD (mg/mL) **83.3**
Total THC **PASS**

Pesticides and Mycotoxins

Result **PASS**

Residual Solvents

Result **PASS**

Heavy Metals

Result **PASS**

Microbial

Result **PASS**

Terpenes

Page 8

NT = Not Tested

Forrest Richmond
Laboratory Manager

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PREPARED FOR:

The Organica Company, LLC.
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Report Date

5/15/2020

Sample ID

D24A

Sample Type

2500MG Full Spectrum CBD Oil

Internal Sample ID

200515-120-2

Lab Batch ID

200515-1

Date of Analysis

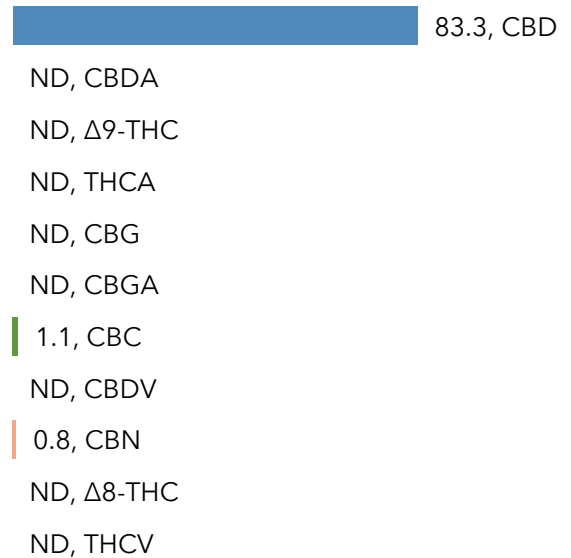
5/15/2020

Analysis: Cannabinoids

Instrumentation: HPLC/DAD Instrument ID: HPLC 1 Method: TM0002 (Twin Arbor Analytical Proprietary)

| | LOD / LOQ (mg/g) | mg/g | mg/ml |
|----------------------------------|---------------------|-------------|-------------|
| CBD | 0.13 / 0.4 | 87.5 | 83.3 |
| CBDA | 0.13 / 0.4 | ND | ND |
| Total CBD * | | 87.5 | 83.3 |
| Δ9-THC | 0.13 / 0.4 | ND | ND |
| THCA | 0.13 / 0.4 | ND | ND |
| Total THC * | | N/A | N/A |
| CBG | 0.13 / 0.4 | ND | ND |
| CBGA | 0.13 / 0.4 | ND | ND |
| Total CBG * | | N/A | N/A |
| CBC | 0.13 / 0.4 | 1.2 | 1.1 |
| CBDV | 0.13 / 0.4 | ND | ND |
| CBN | 0.13 / 0.4 | 0.8 | 0.8 |
| Δ8-THC | 0.13 / 0.4 | ND | ND |
| THCV | 0.13 / 0.4 | ND | ND |
| Total Tested Cannabinoids | | 89.5 | 85.2 |

mg/ml



Density (g/ml): 0.9523

Moisture Content: **NT**

ND = Not Detected

NT = Not Tested

* Totals account for decarboxylation of the acid and equal $XXX + (XXXX \times 0.877)$

For example: Total THC = Δ9-THC + (THCA * 0.877)

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Report Date

5/21/2020

Sample ID

D24A

Sample Name

2500MG Full Spectrum CBD Oil

Internal Sample ID

200515-120-2

Lab Batch ID

200518-1

Date of Analysis

5/18/2020

Analysis: Pesticides and Mycotoxins

Instrumentation: LC-Mass Spectrometer Instrument ID: LCMS 1 Method: TM0004 (Twin Arbor Analytical Proprietary)

| Mycotoxins | Pass / Fail | Results (µg/g) | Action Limit (µg/g) | LOD / LOQ (µg/g) |
|--------------|-------------|----------------|---------------------|------------------|
| Aflatoxin B1 | Pass | ND | 0.02 | 0.000 / 0.001 |
| Aflatoxin B2 | Pass | ND | 0.02 | 0.001 / 0.004 |
| Aflatoxin G1 | Pass | ND | 0.02 | 0.000 / 0.001 |
| Aflatoxin G2 | Pass | ND | 0.02 | 0.001 / 0.004 |
| Ochratoxin A | Pass | ND | 0.02 | 0.004 / 0.013 |

| Category I | Pass / Fail | Results (µg/g) | Action Limit (µg/g) | LOD / LOQ (µg/g) |
|-------------------|-------------|----------------|---------------------|------------------|
| Aldicarb | Pass | ND | ND | 0.035 / 0.105 |
| Carbofuran | Pass | ND | ND | 0.035 / 0.105 |
| Chlordane | Pass | ND | ND | 0.105 / 0.315 |
| Chlorfenapyr | Pass | ND | ND | 0.035 / 0.105 |
| Chlorpyrifos | Pass | ND | ND | 0.035 / 0.105 |
| Coumaphos | Pass | ND | ND | 0.035 / 0.105 |
| Daminozide | Pass | ND | ND | 0.035 / 0.105 |
| DDVP (Dichlorvos) | Pass | ND | ND | 0.035 / 0.105 |
| Dimethoate | Pass | ND | ND | 0.035 / 0.105 |
| Ethoprop(hos) | Pass | ND | ND | 0.035 / 0.105 |
| Etofenprox | Pass | ND | ND | 0.035 / 0.105 |
| Fenoxycarb | Pass | ND | ND | 0.035 / 0.105 |
| Fipronil | Pass | ND | ND | 0.035 / 0.105 |
| Imazalil | Pass | ND | ND | 0.035 / 0.105 |
| Methiocarb | Pass | ND | ND | 0.035 / 0.105 |
| Methyl parathion | Pass | ND | ND | 0.035 / 0.105 |
| Mevinphos | Pass | ND | ND | 0.018 / 0.053 |
| Paclobutrazol | Pass | ND | ND | 0.035 / 0.105 |
| Propoxur | Pass | ND | ND | 0.035 / 0.105 |
| Spiroxamine | Pass | ND | ND | 0.035 / 0.105 |
| Thiacloprid | Pass | ND | ND | 0.035 / 0.105 |

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Analysis: Pesticides and Mycotoxins (continued)

Instrumentation: LC-Mass Spectrometer

Instrument ID: LCMS 1

Method: TM0004 (Twin Arbor Analytical Proprietary)

| Category II | Pass / Fail | Results (µg/g) | Action Limit (µg/g) | LOD / LOQ (µg/g) |
|-------------------------|-------------|----------------|---------------------|------------------|
| Abamectin | Pass | ND | 0.30 | 0.018 / 0.053 |
| Acephate | Pass | ND | 5.00 | 0.018 / 0.053 |
| Acequinocyl | Pass | ND | 4.00 | 0.018 / 0.053 |
| Acetamiprid | Pass | ND | 5.00 | 0.018 / 0.053 |
| Azoxystrobin | Pass | ND | 40.00 | 0.018 / 0.053 |
| Bifenazate | Pass | ND | 5.00 | 0.018 / 0.053 |
| Bifenthrin | Pass | ND | 0.50 | 0.018 / 0.053 |
| Boscalid | Pass | ND | 10.00 | 0.018 / 0.053 |
| Captan | Pass | ND | 5.00 | 0.035 / 0.105 |
| Carbaryl | Pass | ND | 0.50 | 0.018 / 0.053 |
| Chlorantraniliprole | Pass | ND | 40.00 | 0.018 / 0.053 |
| Clofentezine | Pass | ND | 0.50 | 0.018 / 0.053 |
| Cyfluthrin | Pass | ND | 1.00 | 0.035 / 0.105 |
| Cypermethrin | Pass | ND | 1.00 | 0.018 / 0.053 |
| Diazinon | Pass | ND | 0.20 | 0.018 / 0.053 |
| Dimethomorph | Pass | ND | 20.00 | 0.018 / 0.053 |
| Etoazole | Pass | ND | 1.50 | 0.018 / 0.053 |
| Fenhexamid | Pass | ND | 10.00 | 0.018 / 0.053 |
| Fenpyroximate | Pass | ND | 2.00 | 0.018 / 0.053 |
| Fonicamid | Pass | ND | 2.00 | 0.018 / 0.053 |
| Fludioxonil | Pass | ND | 30.00 | 0.018 / 0.053 |
| Hexythiazox | Pass | ND | 2.00 | 0.018 / 0.053 |
| Imidacloprid | Pass | ND | 3.00 | 0.018 / 0.053 |
| Kresoxim-methyl | Pass | ND | 1.00 | 0.018 / 0.053 |
| Malathion | Pass | ND | 5.00 | 0.018 / 0.053 |
| Metalaxyl | Pass | ND | 15.00 | 0.018 / 0.053 |
| Methomyl | Pass | ND | 0.10 | 0.018 / 0.053 |
| Myclobutanil | Pass | 0.085 | 9.00 | 0.018 / 0.053 |
| Naled | Pass | ND | 0.50 | 0.018 / 0.053 |
| Oxamyl | Pass | ND | 0.20 | 0.018 / 0.053 |
| Pentachloronitrobenzene | Pass | ND | 0.20 | 0.018 / 0.053 |
| Permethrin | Pass | ND | 20.00 | 0.018 / 0.053 |
| Phosmet | Pass | ND | 0.20 | 0.018 / 0.053 |
| Piperonylbutoxide | Pass | ND | 8.00 | 0.018 / 0.053 |
| Prallethrin | Pass | ND | 0.40 | 0.018 / 0.053 |
| Propiconazole | Pass | ND | 20.00 | 0.018 / 0.053 |
| Pyrethrins | Pass | ND | 1.00 | 0.018 / 0.053 |
| Pyridaben | Pass | ND | 3.00 | 0.018 / 0.053 |
| Spinetoram | Pass | ND | 3.00 | 0.018 / 0.053 |
| Spinosad | Pass | ND | 3.00 | 0.018 / 0.053 |
| Spiromesifen | Pass | ND | 12.00 | 0.018 / 0.053 |
| Spirotetramat | Pass | ND | 13.00 | 0.018 / 0.053 |
| Tebuconazole | Pass | ND | 2.00 | 0.018 / 0.053 |
| Thiamethoxam | Pass | ND | 4.50 | 0.018 / 0.053 |
| Trifloxystrobin | Pass | ND | 30.00 | 0.018 / 0.053 |

LOD = Limit of Detection

LOQ = Limit of Quantification

ND = Not Detected

NT = Not Tested



Forrest Richmond
Laboratory Manager

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Report Date

5/21/2020

Sample ID

D24A

Sample Name

2500MG Full Spectrum CBD Oil

Internal Sample ID

200515-120-2

Lab Batch ID

200519-1

Date of Analysis

5/19/2020

Analysis: Residual Solvents

Instrumentation: GC-MS

Intrument ID: GCMS1

Method: TM0006 (Twin Arbor Analytical Proprietary)

| | Pass / Fail | Results (µg/g) | Action Limit (µg/g) | LOQ (µg/g) |
|---|-------------|----------------|---------------------|------------|
| 1,2-Dichloroethane | PASS | < LOQ | 1.0 | 0.63 |
| Benzene | PASS | < LOQ | 1.0 | 0.63 |
| Chloroform | PASS | < LOQ | 1.0 | 0.63 |
| Ethylene oxide | PASS | < LOQ | 1.0 | 0.63 |
| Methylene chloride | PASS | < LOQ | 1.0 | 0.63 |
| Trichloroethylene | PASS | < LOQ | 1.0 | 0.63 |
| Acetone | PASS | 141.478 | 5000 | 1.89 |
| Acetonitrile | PASS | < LOQ | 410 | 5.12 |
| Butane | PASS | 163.468 | 5000 | 0.63 |
| Ethanol | PASS | < LOQ | 5000 | 1.89 |
| Ethyl acetate | PASS | < LOQ | 5000 | 0.63 |
| Ethyl ether | PASS | < LOQ | 5000 | 0.63 |
| Heptane | PASS | < LOQ | 5000 | 0.63 |
| Hexane | PASS | < LOQ | 290 | 1.89 |
| Isopropyl alcohol | PASS | 4.708 | 5000 | 1.89 |
| Methanol | PASS | 766.603 | 3000 | 5.66 |
| Pentane | PASS | < LOQ | 5000 | 1.89 |
| Propane | PASS | < LOQ | 5000 | 16.97 |
| Toluene | PASS | 1.003 | 890 | 0.63 |
| Total xylenes (ortho-, meta-, para-) | PASS | < LOQ | 2170 | 0.63 |



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Report Date 5/21/2020
Sample ID D24A
Sample Name 2500MG Full Spectrum CBD Oil
Internal Sample ID 200515-120-2
Lab Batch ID 200519-1
Date of Analysis 5/20/2020

Analysis: Heavy Metals

Instrumentation: ICP-MS Instrument ID: ICPMS1 Method: TM0005 (Twin Arbor Analytical Proprietary)

| | Pass / Fail | Results (µg/g) | Action Limit (µg/g) | LOQ (µg/g) |
|---------|-------------|----------------|---------------------|------------|
| Arsenic | PASS | < LOQ | 0.2 | 0.1 |
| Cadmium | PASS | < LOQ | 0.2 | 0.1 |
| Lead | PASS | < LOQ | 0.5 | 0.1 |
| Mercury | PASS | < LOQ | 0.1 | 0.1 |

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Sample ID

D24A

Sample Type

2500MG Full Spectrum CBD Oil

Internal Sample ID

200515-120-2

Lab Batch ID

200519-1

Date of Analysis

5/18/2020

Analysis: Microbial Impurities

Instrumentation: RT-PCR Instrument ID: BAX1 Method: AOAC-RI 091301 (modified)

| | Action Limit | Pass / Fail |
|--------------------------------|--------------|-------------|
| STEC (Shiga-toxigenic E. coli) | ND | PASS |
| Salmonella sp. | ND | PASS |
| Pathogenic Aspergillus | ND | NT |



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Sample Name

2500MG Full Spectrum CBD Oil

Internal Sample ID

200515-120-2

Lab Batch ID

200520-1

Date of Analysis

5/20/2020

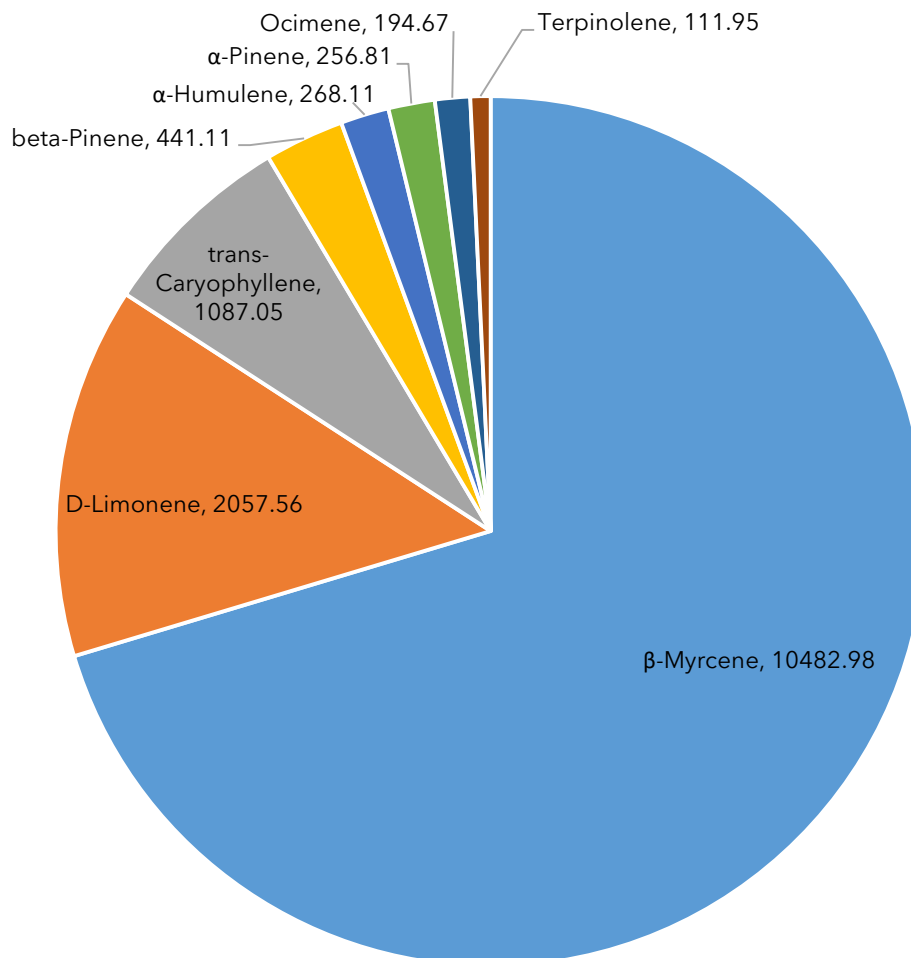
Analysis: Terpenes

Instrumentation: GC-MS

Intrument ID: GCMS1

Method: TM0006 (Twin Arbor Analytical Proprietary)

Top Terpenes Detected



Continued on page 9

Analysis: Terpenes (continued)

| | LOQ (µg/g) | Results (µg/g) |
|-------------------------------|---------------|-------------------|
| α-Pinene | 0.34 | 256.81 |
| Camphene | 0.33 | 102.65 |
| Sabinene | 0.99 | < LOQ |
| β-Myrcene | 1.00 | 10482.98 |
| beta-Pinene | 0.33 | 441.11 |
| α-Phellandrene | 1.00 | < LOQ |
| (1S)-(+)-3-Cerene | 0.99 | < LOQ |
| α-Terpinene | 0.33 | 12.13 |
| D-Limonene | 0.99 | 2057.56 |
| Ocimene | 0.79 | 194.67 |
| Eucalyptol | 1.00 | 15.38 |
| γ-Terpinene | 0.33 | 14.27 |
| Terpinolene | 0.99 | 111.95 |
| Sabinene Hydrate | 1.00 | < LOQ |
| Linalool | 1.00 | 91.07 |
| Fenchone | 0.22 | 64.08 |
| (1R)-endo-(+)-Fenchyl alcohol | 0.33 | 72.63 |
| (-)-Isopulegol | 2.99 | < LOQ |
| Camphor | 0.33 | 13.88 |
| Isoborneol | 2.99 | < LOQ |
| dI-Menthol | 1.00 | < LOQ |
| Borneol | 0.22 | 19.19 |
| α-Terpineol | 0.81 | 47.39 |
| γ-Terpineol | 0.55 | < LOQ |
| Nerol | 2.99 | < LOQ |
| Geraniol | 8.94 | < LOQ |
| (+)-Pulegone | 0.99 | < LOQ |
| Geranyl acetate | 2.98 | < LOQ |
| α-Cedrene | 0.33 | < LOQ |
| trans-Caryophyllene | 3.00 | 1087.05 |
| α-Humulene | 0.33 | 268.11 |
| α-Farnesene | 26.94 | < LOQ |
| Valencene | 3.00 | < LOQ |
| cis-Nerolidol | 2.99 | < LOQ |
| trans-Nerolidol | 3.00 | < LOQ |
| Guaiol | 0.99 | < LOQ |
| (-)-Caryophyllene oxide | 8.98 | < LOQ |
| (+)-Cedrol | 1.00 | < LOQ |
| (-)-α-Bisabolol | 2.99 | < LOQ |



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