# Certificate of Analysis Cover Page

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

TWIN ARBOR

PREPARED FOR:

Funky Farms
6401 Congress Ave, Suite 270
Boca Raton, FL 33487

| | |
|---|---|
| Report Date | 4/12/2022 |
| Sample ID | CBD Natural |
| Batch / Lot | 3252203 |

## Results

Analysis

Cannabinoids

| | |
|---|---|
| Total CBD (%) | **49.4 %** |
| Total THC | **PASS** |

Pesticides and Mycotoxins

| | |
|---|---|
| Result | **PASS** |

Residual Solvents

| | |
|---|---|
| Result | **PASS** |

Heavy Metals

| | |
|---|---|
| Result | **PASS** |

Microbial

| | |
|---|---|
| Result | **PASS** |

Terpenes

| | |
|---|---|
| Page | 8 |

Forrest Richmond
Laboratory Manager

NT = Not Tested

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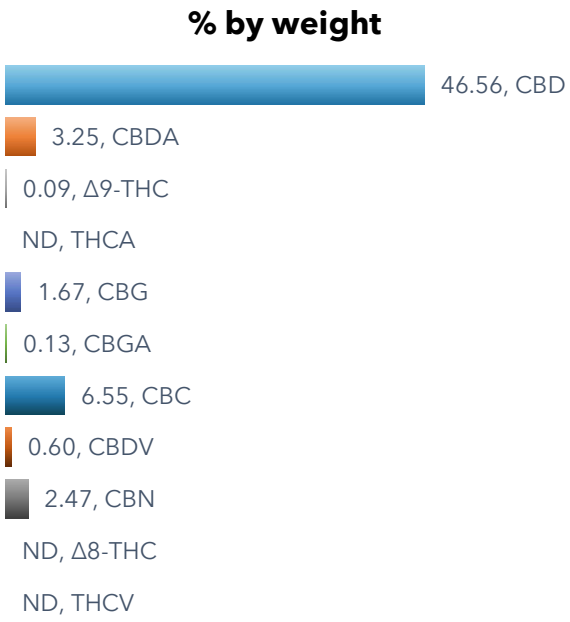
PREPARED FOR:
Funky Farms
6401 Congress Ave, Suite 270
Boca Raton, FL 33487

| | |
|---|---|
| Report Date | 4/8/2022 |
| Sample ID | CBD Natural |
| Batch / Lot | 3252203 |
| Internal Sample ID | 220328-217-4 |
| Lab Batch ID | 220406-1 |
| Date of Analysis | 4/6/2022 |

## Analysis: Cannabinoids

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

| | LOD / LOQ (mg/g) | mg/g | % by weight |
|---|---|---|---|
| CBD | 0.23 / 0.69 | 465.6 | 46.56 |
| CBDA | 0.21 / 0.64 | 32.5 | 3.25 |
| **Total CBD *** | | **494.1** | **49.41** |
| Δ9-THC | 0.21 / 0.64 | 0.9 | 0.09 |
| THCA | 0.21 / 0.64 | ND | ND |
| **Total THC *** | | **0.9** | **0.09** |
| CBG | 0.21 / 0.64 | 16.7 | 1.67 |
| CBGA | 0.21 / 0.64 | 1.3 | 0.13 |
| **Total CBG *** | | **17.8** | **1.78** |
| CBC | 0.21 / 0.64 | 65.5 | 6.55 |
| CBDV | 0.21 / 0.64 | 6.0 | 0.60 |
| CBN | 0.21 / 0.64 | 24.7 | 2.47 |
| Δ8-THC | 0.21 / 0.64 | ND | ND |
| THCV | 0.21 / 0.64 | ND | ND |
| **Total Tested Cannabinoids** | | **613.2** | **61.32** |




Moisture Content: NT

ND = Not Detected  NT = Not Tested

* Totals account for decarboxilation of the acid and equal *XXX + (XXXA * 0.877)*
For example: Total THC = Δ9-THC + (THCA * 0.877)

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Funky Farms
6401 Congress Ave, Suite 270
Boca Raton, FL 33487

| | |
|---|---|
| Report Date | 4/12/2022 |
| Sample ID | CBD Natural |
| Batch / Lot | 3252203 |
| Internal Sample ID | 220328-217-4 |
| Lab Batch ID | 220408-3 |
| Date of Analysis | 4/8/2022 |

## Analysis: Pesticides and Mycotoxins

Instrumentation: LC-Mass Spectrometer  Intrument 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 | 0.033 / 0.100 |
| Carbofuran | Pass | ND | ND | 0.033 / 0.100 |
| Chlordane | Pass | ND | ND | 0.100 / 0.300 |
| Chlorfenapyr | Pass | ND | ND | 0.033 / 0.100 |
| Chlorpyrifos | Pass | ND | ND | 0.033 / 0.100 |
| Coumaphos | Pass | ND | ND | 0.033 / 0.100 |
| Daminozide | Pass | ND | ND | 0.033 / 0.100 |
| DDVP (Dichlorvos) | Pass | ND | ND | 0.033 / 0.100 |
| Dimethoate | Pass | ND | ND | 0.033 / 0.100 |
| Ethoprop(hos) | Pass | ND | ND | 0.033 / 0.100 |
| Etofenprox | Pass | ND | ND | 0.033 / 0.100 |
| Fenoxycarb | Pass | ND | ND | 0.033 / 0.100 |
| Fipronil | Pass | ND | ND | 0.033 / 0.100 |
| Imazalil | Pass | ND | ND | 0.033 / 0.100 |
| Methiocarb | Pass | ND | ND | 0.033 / 0.100 |
| Methyl parathion | Pass | ND | ND | 0.033 / 0.100 |
| Mevinphos | Pass | ND | ND | 0.017 / 0.050 |
| Paclobutrazol | Pass | ND | ND | 0.033 / 0.100 |
| Propoxur | Pass | ND | ND | 0.033 / 0.100 |
| Spiroxamine | Pass | ND | ND | 0.033 / 0.100 |
| Thiacloprid | Pass | ND | ND | 0.033 / 0.100 |

Continued on page 4

## Analysis: Pesticides and Mycotoxins (continued)

Instrumentation: LC-Mass Spectrometer Intrument 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 | 0.10 | 0.017 / 0.050 |
| Acephate | Pass | ND | 0.10 | 0.017 / 0.050 |
| Acequinocyl | Pass | ND | 0.10 | 0.017 / 0.050 |
| Acetamiprid | Pass | ND | 0.10 | 0.017 / 0.050 |
| Azoxystrobin | Pass | ND | 0.10 | 0.017 / 0.050 |
| Bifenazate | Pass | ND | 0.10 | 0.017 / 0.050 |
| Bifenthrin | Pass | ND | 3.00 | 0.017 / 0.050 |
| Boscalid | Pass | 0.086 | 0.40 | 0.017 / 0.050 |
| Captan | Pass | ND | 0.70 | 0.033 / 0.100 |
| Carbaryl | Pass | ND | 0.50 | 0.017 / 0.050 |
| Chlorantraniliprole | Pass | ND | 10.00 | 0.017 / 0.050 |
| Clofentezine | Pass | ND | 0.10 | 0.017 / 0.050 |
| Cyfluthrin | Pass | ND | 2.00 | 0.033 / 0.100 |
| Cypermethrin | Pass | ND | 1.00 | 0.017 / 0.050 |
| Diazinon | Pass | ND | 0.10 | 0.017 / 0.050 |
| Dimethomorph | Pass | ND | 2.00 | 0.017 / 0.050 |
| Etoxazole | Pass | ND | 0.10 | 0.017 / 0.050 |
| Fenhexamid | Pass | ND | 0.10 | 0.017 / 0.050 |
| Fenpyroximate | Pass | ND | 0.10 | 0.017 / 0.050 |
| Flonicamid | Pass | ND | 0.10 | 0.017 / 0.050 |
| Fludioxonil | Pass | ND | 0.10 | 0.017 / 0.050 |
| Hexythiazox | Pass | ND | 0.10 | 0.017 / 0.050 |
| Imidacloprid | Pass | ND | 5.00 | 0.017 / 0.050 |
| Kresoxim-methyl | Pass | ND | 0.10 | 0.017 / 0.050 |
| Malathion | Pass | ND | 0.50 | 0.017 / 0.050 |
| Metalaxyl | Pass | ND | 2.00 | 0.017 / 0.050 |
| Methomyl | Pass | ND | 1.00 | 0.017 / 0.050 |
| Myclobutanil | Pass | ND | 0.10 | 0.017 / 0.050 |
| Naled | Pass | ND | 0.10 | 0.017 / 0.050 |
| Oxamyl | Pass | ND | 0.50 | 0.017 / 0.050 |
| Pentachloronitrobenzene | Pass | ND | 0.10 | 0.017 / 0.050 |
| Permethrin | Pass | ND | 0.50 | 0.017 / 0.050 |
| Phosmet | Pass | ND | 0.10 | 0.017 / 0.050 |
| Piperonylbutoxide | Pass | ND | 3.00 | 0.017 / 0.050 |
| Prallethrin | Pass | ND | 0.10 | 0.017 / 0.050 |
| Propiconazole | Pass | ND | 0.10 | 0.017 / 0.050 |
| Pyrethrins | Pass | ND | 0.50 | 0.017 / 0.050 |
| Pyridaben | Pass | ND | 0.10 | 0.017 / 0.050 |
| Spinetoram | Pass | ND | 0.10 | 0.017 / 0.050 |
| Spinosad | Pass | ND | 0.10 | 0.017 / 0.050 |
| Spiromesifen | Pass | ND | 0.10 | 0.017 / 0.050 |
| Spirotetramat | Pass | ND | 0.10 | 0.017 / 0.050 |
| Tebuconazole | Pass | ND | 0.10 | 0.017 / 0.050 |
| Thiamethoxam | Pass | ND | 5.00 | 0.017 / 0.050 |
| Trifloxystrobin | Pass | ND | 0.10 | 0.017 / 0.050 |

LOD = Limit of Detection
LOQ = Limit of Quantification
ND = Not Detected
NT = Not Tested

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Laboratory Manager

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Funky Farms
6401 Congress Ave, Suite 270
Boca Raton, FL 33487

| | |
|---|---|
| Report Date | 4/12/2022 |
| Sample ID | CBD Natural |
| Batch / Lot | 3252203 |
| Internal Sample ID | 220328-217-4 |
| Lab Batch ID | 220331-1 |
| Date of Analysis | 4/5/2022 |

## 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 | 0.41 |
| Benzene | PASS | < LOQ | 1.0 | 0.42 |
| Chloroform | PASS | < LOQ | 1.0 | 0.41 |
| Ethylene oxide | PASS | < LOQ | 1.0 | 0.42 |
| Methylene chloride | PASS | < LOQ | 1.0 | 0.4 |
| Trichloroethylene | PASS | < LOQ | 1.0 | 0.43 |
| Acetone | PASS | < LOQ | 5000 | 59.2 |
| Acetonitrile | PASS | < LOQ | 410 | 60.92 |
| Butane | PASS | 206.070 | 5000 | 39.64 |
| Ethanol | PASS | < LOQ | 5000 | 59.54 |
| Ethyl acetate | PASS | < LOQ | 5000 | 59.96 |
| Ethyl ether | PASS | < LOQ | 5000 | 59.1 |
| Heptane | PASS | < LOQ | 5000 | 59.24 |
| Hexane | PASS | < LOQ | 290 | 59.28 |
| Isopropyl alcohol | PASS | < LOQ | 5000 | 59.3 |
| Methanol | PASS | < LOQ | 3000 | 59.3 |
| Pentane | PASS | < LOQ | 5000 | 59.56 |
| Propane | PASS | < LOQ | 5000 | 40 |
| Toluene | PASS | < LOQ | 890 | 59.3 |
| Total xylenes (ortho-, meta-, para-) | PASS | < LOQ | 2170 | 59.2 |

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ND = Not Detected  NT = Not Tested

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Boca Raton, FL 33487

| | |
|---|---|
| Report Date | 4/12/2022 |
| Sample ID | CBD Natural |
| Batch / Lot | 3252203 |
| Internal Sample ID | 220328-217-4 |
| Lab Batch ID | 220407-2 |
| Date of Analysis | 4/7/2022 |

## Analysis: Heavy Metals

Instrumentation: ICP-MS  Intrument 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 | 0.013 |
| Cadmium | PASS | < LOQ | 0.2 | 0.013 |
| Lead | PASS | 0.060 | 0.5 | 0.013 |
| Mercury | PASS | < LOQ | 0.1 | 0.013 |

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LOQ = Limit of Quantiication

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Boca Raton, FL 33487

| | |
|---|---|
| Report Date | 4/12/2022 |
| Sample ID | CBD Natural |
| Batch / Lot | 3252203 |
| Internal Sample ID | 220328-217-4 |
| Lab Batch ID | 220328-217 |
| Date of Analysis | 3/29/2022 |

## Analysis: Microbial Impurities

Instrumentation: RT-PCR  Intrument 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 | PASS |

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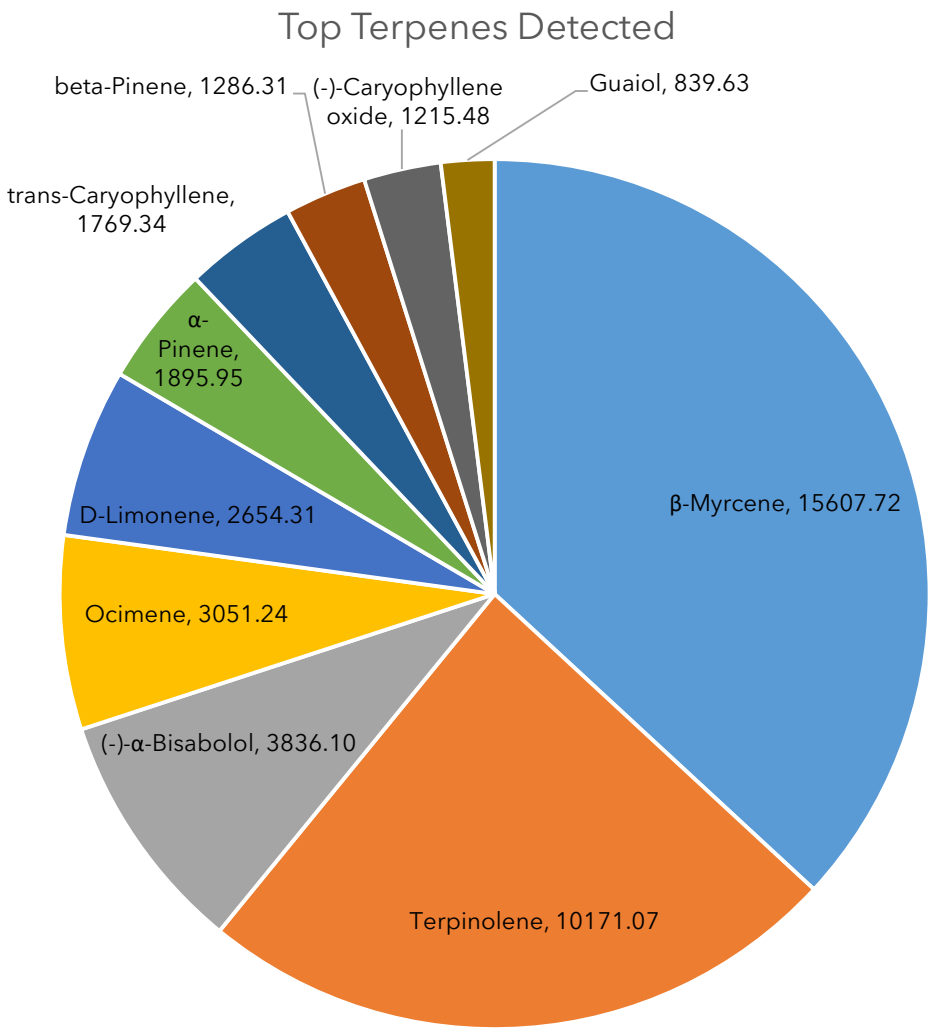
Boca Raton, FL 33487

| | |
|---|---|
| Report Date | 4/12/2022 |
| Sample ID | CBD Natural |
| Sample Name | 3252203 |
| Internal Sample ID | 220328-217-4 |
| Lab Batch ID | 220331-2 |
| Date of Analysis | 4/6/2022 |

## Analysis: Terpenes

Instrumentation: GC-MS Intrument ID: GCMS1 Method: TM0006 (Twin Arbor Analytical Proprietary)

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## Analysis: Terpenes (continued)

| | LOQ (µg/g) | Results (µg/g) |
|---|---|---|
| α-Pinene | 0.34 | 1895.95 |
| Camphene | 0.33 | 72.24 |
| Sabinene | 0.99 | < LOQ |
| β-Myrcene | 1.00 | 15607.72 |
| beta-Pinene | 0.33 | 1286.31 |
| α-Phellandrene | 1.00 | 445.55 |
| (1S)-(+)-3-Cerene | 0.99 | 390.99 |
| α-Terpinene | 0.33 | 287.14 |
| D-Limonene | 0.99 | 2654.31 |
| Ocimene | 0.79 | 3051.24 |
| Eucalyptol | 1.00 | 108.76 |
| γ-Terpinene | 0.33 | 210.39 |
| Terpinolene | 0.99 | 10171.07 |
| Sabinene Hydrate | 1.00 | < LOQ |
| Linalool | 1.00 | 317.87 |
| Fenchone | 0.22 | 43.98 |
| (1R)-endo-(+)-Fenchyl alcohol | 0.33 | < LOQ |
| (-)-Isopulegol | 2.99 | < LOQ |
| Camphor | 0.33 | < LOQ |
| Isoborneol | 2.99 | < LOQ |
| dl-Menthol | 1.00 | < LOQ |
| Borneol | 0.22 | < LOQ |
| α-Terpineol | 0.81 | 181.03 |
| 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 | 1769.34 |
| α-Humulene | 0.33 | 527.51 |
| α-Farnesene | 26.94 | < LOQ |
| Valencene | 3.00 | < LOQ |
| cis-Nerolidol | 2.99 | < LOQ |
| trans-Nerolidol | 3.00 | 169.47 |
| Guaiol | 0.99 | 839.63 |
| (-)-Caryophyllene oxide | 8.98 | 1215.48 |
| (+)-Cedrol | 1.00 | < LOQ |
| (-)-α-Bisabolol | 2.99 | 3836.10 |

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