



CERTIFICATE OF ANALYSIS

PRODUCT NAME: Broad Spectrum CBD Oil (0.0% THC)

PRODUCT CODE: BO-NO-Y-Z-A


LOT NUMBER: CONO20-39-1

DATE OF MANUFACTURE: 10AUG2020
(DDMMYYYY)

EXPIRATION DATE: 10AUG2022
(Expiration date is 24 months under sealed conditions.)

INGREDIENTS: Broad Spectrum CBD Oil (0.0% THC)

| Parameter | Method ¹ | Specification | Results | |
|---------------------|-----------------------|---|----------------|---------------|
| Appearance | QCU002 | Viscous Oil, Possible Crystal Formation | Pass | |
| Color | | Pale yellow to amber to brown | Pass | |
| Dissolution | | Soluble and translucent | Pass | |
| Cannabinoids | QCU001 (UHPLC-DAD) | LOQ (ppm) | Wt. (%) | (mg/g) |
| CBD | | 20 | 88.830 | 888.298 |
| CBD-A | | 20 | < LOQ | < LOQ |
| Δ9-THC | | 5 | 0.018 | 0.180 |
| THC-A | | 5 | < LOQ | < LOQ |
| CBN | | 5 | 0.022 | 0.220 |
| CBN-A | | 5 | < LOQ | < LOQ |
| CBG | | 5 | < LOQ | < LOQ |
| CBC | | 5 | < LOQ | < LOQ |
| CBC-A | | 5 | < LOQ | < LOQ |
| Δ8-THC | | 5 | < LOQ | < LOQ |
| CBDV | | 5 | 1.338 | 13.383 |
| CBDV-A | | 5 | < LOQ | < LOQ |
| THCV | | 5 | < LOQ | < LOQ |
| Potency – Total CBD | | | NLT 80.0 wt% | 88.8 wt% |
| Total THC | | 0.0% | 0.0% | |
| Identity – CBD | | Retention Time ± 0.05min of Standard | 0.00 min | |
| Terpenes | GC-MS (CannaSafe) | For Information Only | | |
| β-Caryophyllene | | | 0.18% | |
| Caryophyllene Oxide | | | 0.12% | |
| Guaiol | | | 0.13% | |
| α-Humulene | | | ND | |
| Linalool | | | 0.03% | |

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| Parameter | Method ¹ | Specification | Results |
|---------------------------|-------------------------------|------------------------|---------|
| Pesticides | LC/MS GC/MS (CannaSafe) | Conforms to EPA limits | Pass |
| Residual Solvents | | | |
| Ethanol | | 5000 ppm | Pass |
| Methanol | USP | 3000 ppm | Pass |
| Pentane | <467> | 5000 ppm | Pass |
| Acetone | | 5000 ppm | Pass |
| Isopropyl Alcohol | GC FID (CannaSafe) | 5000 ppm | Pass |
| Heptane | | 5000 ppm | Pass |
| Hexane | | 290 ppm | Pass |
| Heavy Metals | | | |
| Arsenic | USP | <1.5 ppm | Pass |
| Cadmium | <2232> | <0.5 ppm | Pass |
| Lead | ICP-MS | <0.5 ppm | Pass |
| Mercury | (CannaSafe) | <0.2 ppm | Pass |
| Microbial Limits | | | |
| Total aerobic plate count | USP | <1000 cfu/g | Pass |
| Total yeast & mold | <2023> | <100 cfu/g | Pass |
| Enterobacteriaceae | | <10 MPN/g | Pass |
| Aspergillus | (CannaSafe) | Absent | Pass |
| E. coli | | Absent | Pass |
| Salmonella | | Absent | Pass |
| Mycotoxins | | | |
| Aflatoxin B1 | USP | <5ppb | Pass |
| Aflatoxin B2 | <561> | <5ppb | Pass |
| Aflatoxin G1 | | <5ppb | Pass |
| Aflatoxin G2 | LC-MS | <5ppb | Pass |
| Total Aflatoxins | (CannaSafe) | <20ppb | Pass |
| Ochratoxin A | | <10ppb | Pass |

Notes: ¹according to Folium Biosciences internal analytical methods, US Pharmacopeia or 3rd party contract laboratory method.
ND=Not Detected

The above certificate of analysis is based on Product Specification (QA-FRM3-0005 BO-NO-Y-Z-A)

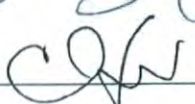
Revision No. 01

Results conform to all specifications: Yes or No

Note: When sampling, manufacturing, or formulating with this oil, the oil MUST first be heated and liquefied at 70-75°C and mixed thoroughly. Attempting to sample the oil when it is in a semi-solid state will not result in accurate analytical results.

Storage: Room Temperature, Protect from Light, Heat and Moisture

Prepared by: Blake Breitmeyer  Date: 19 Aug 2020
Quality Control, Folium Biosciences

Reviewed by: Chris Didomenico  Date: 20 Aug 2020
Quality Control, Folium Biosciences

This product is not intended to diagnose, treat, cure, or prevent any disease and has not been evaluated by the FDA.
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