



CERTIFICATE OF ANALYSIS

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

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

LOT NUMBER: CONO20-02

DATE OF MANUFACTURE: 17NOV2019
(DDMMYYYY)

EXPIRATION DATE: 17NOV2021

(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	88.876	888.757
CBD-A		20	< LOQ	< LOQ
Δ^9 -THC		5	< LOQ	< LOQ
THC-A		5	< LOQ	< LOQ
CBN		5	0.016	0.160
CBN-A		5	< LOQ	< LOQ
CBG		5	< LOQ	< LOQ
CBC		5	< LOQ	< LOQ
CBC-A		5	< LOQ	< LOQ
Δ^8 -THC		5	< LOQ	< LOQ
CBDV		5	1.387	13.70
CBDV-A		5	< LOQ	< LOQ
THCV		5	< LOQ	< LOQ
Potency – Total CBD		≥ 80.0 wt%		88.9 wt%
Total THC		0.0%		0.0%
Identity – CBD		Retention Time $\pm$ 0.05min of Standard		0.00 min
Terpenes	GC-MS (iLabs)	For Information Only		
β -Caryophyllene				0.275%
Caryophyllene Oxide				0.228%
Eucalyptol				0.006%
Guaiaol				0.441%
α -Humulene				0.010%
Linalool				0.066%
α -Bisabolol				0.028%

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Parameter	Method ¹	Specification	Results
Pesticides	LC/MS GC/MS (Green Scientific)	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	5000 ppm	Pass
Heptane	(Green Scientific)	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	(Green Scientific)	<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	(Green Scientific)	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	(Green Scientific)	<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

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Reviewed by: Chris Didomenico  Date: 19 MAY 2020
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