

CERTIFICATE OF ANALYSIS

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

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

LOT NUMBER: CONO20-40

DATE OF MANUFACTURE: 06NOV2020
(DDMMYYYY)

EXPIRATION DATE: 06NOV2022

*(Expiration date is 24 months
under sealed conditions.)*

INGREDIENTS: Broad Spectrum CBD Oil (0.0% THC)

Parameter	Method ¹	Specification	Results
Appearance		Viscous Oil, Possible Crystal Formation	Pass
Color	QCU002	Pale yellow to amber to brown	Pass
Dissolution		Soluble and translucent	Pass
Cannabinoids		LOQ (ppm)	Wt. (%)
CBD		20	86.249
CBD-A		20	< LOQ
Δ9-THC		5	0.027
THC-A		5	< LOQ
CBN		5	0.028
CBN-A		5	< LOQ
CBG	QCU001	5	< LOQ
CBC	(UHPLC-DAD)	5	< LOQ
CBC-A		5	< LOQ
Δ8-THC		5	< LOQ
CBDV		5	1.390
CBDV-A		5	< LOQ
THCV		5	< LOQ
Potency – Total CBD		NLT 80.0 wt%	86.2 wt%
Total THC		0.0%	0.0%
Identity – CBD		Retention Time ± 0.05min of Standard	-0.01 min
Terpenes		For Information Only	
β-Caryophyllene			0.25%
Caryophyllene Oxide			0.14%
Guaiol	GC-MS		0.14%
α-Humulene	(CannaSafe)		< LOQ
Linalool			0.04%

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

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	5000 ppm	Pass
Heptane	(CannaSafe)	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 Volium Biosciences internal analytical methods, US Pharmacopeia or 3rd party contract laboratory method.
ND=Not Detected

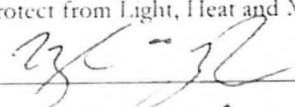
The above certificate of analysis is based on Product Specification (QA-FRM3-0005 BO-NO-Y-Z-A)

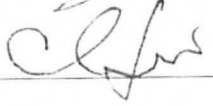
Revision No. 01

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: 17 Mar 2021
Quality Control

Reviewed by: Chris Didomenico  Date: 17 MAR 2021
Quality Control

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