

Product: Cannabidiol Oral Solution 2000 mg Batch: TN23J2101H

Manufactured for Down to Earth Primitive Extracts

Certificate of Analysis

Product : Cannabidiol Oral Solution containing CBD Isolate, Hemp Seed Oil

Target 2000 mg of CBD per oz (7.0% w/w)

Batch: TN23J2101H

Timeframe : QA batch release review

Test	Analyte	Acceptance Criteria	Results	Pass	Fail	
Chemical	CBD	6.00 to 8.00%	7.55%	✓		
			(108% of target)			
	THC	Not detected	Not detected			
	THC-A	Not detected	Not detected	✓		
Microbiology	Total Aerobic Count	Not detected	Not detected	✓		
	Total Coliforms	Not detected	Not detected	✓		
	Total Yeast & Mold	Not detected	Not detected			
	E. Coli (STEC)	Absent in 25 g	Absent	✓		
	Salmonella	Absent in 25 g	Absent	✓		
Pesticides	Targeted list	Not detected	Not tes	ted*		
Heavy metals	Arsenic As	<1.5 ppm	Not tes	ted*		
-	Cadmium Cd	<0.5 ppm	Not tes	ted*		
	Lead Pb	<0.5 ppm	Not tested*			
	Mercury Hg	<1.5 ppm	Not tested*			
Residual	Acetone	<1000 ppm	Not tes			
solvents	Benzene	<2 ppm	Not tes	lot tested* lot tested*		
	Ethanol	<1000 ppm	Not tes	ted*		
	Ethyl Acetate	<1000 ppm	Not tes	ted*		
	Heptane	<1000 ppm	Not tes	rested*		
	Hexane	<60 ppm	Not tested*			
	Isopropyl Alcohol	<1000 ppm	Not tested*			
	Methanol	<600 ppm	Not tested*			
	Pentane	<1000 ppm	Not tested*			
	Propane	<1000 ppm	Not tested*			
	Toluene	<180 ppm	Not tested*			
	Total Xylenes	<430 ppm	Not tested*			
Mycotoxins	Aflatoxins (B1, B2, G1, and G2)	<20	Not tes	ted*		
	Aflatoxin B1	<5	Not tested*			
	Ochratoxin	<5	Not tes	ted*		

^{*}Product free of contamination by addition

✓ Batch is acceptable and released	☐ Batch is not acceptable and will not be released
Approved by :	



Official Compliance: Colorado CERTIFICATE OF ANALYSIS

Prepared for:

PANACEA LIFE SCIENCES

Down to Earth Primitive Extracts 2000mg CBD tincture in Hemp Seed Oil

Spectrum Analysis, 0.01% THC

(Colorado Panel)

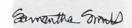
Reported: Batch ID or Lot Number: Test: Location: 16194 W 45th Drive TN23J2101H **Potency** 2/2/23 Golden, CO 80403 Matrix: Test ID: Started: **USDA License:** Concentrate T000186904 1/17/23 N/A Status: Method: Received: Sampler ID: N/A TM14 (HPLC-DAD): Potency - Broad 01/11/2023 @ 02:51 PM N/A

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.002	0.008	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	ND	ND	
Cannabidiolic acid (CBDA)	0.051	0.161	ND	ND	
Cannabidiol (CBD)	0.050	0.157	7.544	70.17	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.049	0.155	ND	ND	
Cannabinolic Acid (CBNA)	0.028	0.089	ND	ND	
Cannabinol (CBN)	0.013	0.041	ND	ND	
Cannabigerolic acid (CBGA)	0.041	0.130	ND	ND	
Cannabigerol (CBG)	0.010	0.031	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.035	0.110	ND	ND	
Tetrahydrocannabivarin (THCV)	0.009	0.028	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.021	0.067	ND	ND	
Cannabidivarin (CBDV)	0.012	0.037	0.038	0.38	The state of the s
Cannabichromenic Acid (CBCA)	0.016	0.050	ND	ND	
Cannabichromene (CBC)	0.017	0.055	ND	ND	
Total Cannabinoids			7.582	70.56	
Total Potential THC**			0	0	
Total Potential CBD**			7.544	70.56	



Hannah Wright 02-Feb-2023 01:57 PM



Sam Smith 2-Feb-23 2:22 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

- * Indicates a value below the Limit of Quantitiation (LOQ) and above the Limit of Detection (LOD),
- ** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during deciriboxylation step.

Total THC = THC + (THCa *(0.877)) and

Total CBD = CBD + (CBDa *(0.377))

Total Cannab mores result reflects the alisolute sum of all carnabino os detected ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.







Official Compliance: Colorado CERTIFICATE OF ANALYSIS

Prepared for:

PANACEA LIFE SCIENCES

2000mg CBD tincture in Hemp Seed Oil

Down to Earth Primitive Extracts

Batch ID or Lot Number:

Test:

Reported: 2/1/23 Location:

16194 W 45th Drive Golden, CO 80403

TN23I2101H

Microbial Contaminants

USDA License:

Matrix:

Finished Product

Test ID: T000186905 Started: 1/12/23

N/A

Status:

Methods:

Received: 01/11/2023

Sampler ID:

TM25 (qPCR) N/A

@ 02:51 PM

N/A

TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected
Total Coliforms*	TM-27, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
Total Yeast and Mold*	TM-24, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent

Notes

Free from visual mold, mildew, and foreign matter

Amendment to report T000186905 for batch ID correction. SCH01Feb2022



Sarah Henning 2/1/2023 12:13:00 PM

Courtney Richards 2/1/2023 1:40:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing E. coli

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples:

10^2 = 100 CFU 10^3 = 1,000 CFU 10^4 = 10,000 CFU 10^5 = 100,000 CFU

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CERTIFICATE OF ANALYSIS

Prepared for:

PANACEA LIFE SCIENCES

16194 W 45th Drive Golden, CO USA 80403

CBD Isolate

Batch ID or Lot Number: 8375	Test:	Reported:	USDA License:
	Heavy Metals	28Mar2022	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate Co	T000199480	24Mar2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	23Mar2022	NA

Dynamic Range (ppm)	Result (ppm)	Notes	
0.04 - 4.26	ND		
0.04 - 4.31	ND		
0.04 - 4.34	ND		
0.04 - 4.32	ND		
	0.04 - 4.26 0.04 - 4.31 0.04 - 4.34	0.04 - 4.26 ND 0.04 - 4.31 ND 0.04 - 4.34 ND	0.04 - 4.26 ND 0.04 - 4.31 ND 0.04 - 4.34 ND

Final Approval



Kayla Phye 28Mar2022 09:59:00 AM MDT

APPROVED BY / DATE

Ryan Weems 28Mar2022 10:02:00 AM MDT



DATE

https://results.botanacor.com/api/v1/coas/uuid/9508febb-60ad-4ad1-845c-428400755137

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/ IEC 17025:2005 Accredited A2LA.











Cert #4329.02

CDPHE Certified 9508febb60ad4ad1845c428400755137.1