

## Product: Cannabidiol Oral Solution 1000 mg Batch: TN23J2101I

## **Manufactured for Down to Earth Primitive Extracts**

## **Certificate of Analysis**

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

Target 1000 mg of CBD per oz (3.5% w/w)

Batch : <u>TN23J2101I</u>

Timeframe : QA batch release review

Test	Analyte	Acceptance Criteria	Results	Pass	Fail		
Chemical	CBD	3.00 to 4.00%	3.5%	<b>✓</b>			
			(100% 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				
Heavy metals	Arsenic As	<1.5 ppm	Not tes	ted*			
-	Cadmium Cd	<0.5 ppm	Not tested*				
	Lead Pb	<0.5 ppm	Not tested*				
	Mercury Hg	<1.5 ppm	Not tested*				
Residual	Acetone	<1000 ppm	Not tested*				
solvents	Benzene	<2 ppm	Not tested*				
	Ethanol	<1000 ppm	3.5% (100% of target)	ted*			
	Ethyl Acetate	<1000 ppm	Not tes	ted*			
	Heptane	<1000 ppm	(100% of target)  Not detected  Not detected  Not detected  Not detected  Not detected  Not detected  Not tested*  Not tested*	ted*			
	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 tested*				
	Aflatoxin B1	<5	Not tested*				
	Ochratoxin	<5	Not tes	ted*			

<sup>\*</sup>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 1000mg CBD tincture in Hemp Seed Oil

Spectrum Analysis, 0.01% THC

(Colorado Panel)

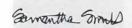
Reported: Batch ID or Lot Number: Test: Location: 16194 W 45th Drive TN23J2101I **Potency** 2/2/23 Golden, CO 80403 Matrix: Test ID: Started: **USDA License:** Concentrate T000186910 1/17/23 N/A Status: Method: Received: Sampler ID: N/A TM14 (HPLC-DAD): Potency - Broad 01/11/2023 @ 02:51 PM N/A

#### 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	41.15
Cannabidiol (CBD)	0.050	0.157	3.500	35.00	
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	0.018	0.18	
Cannabichromenic Acid (CBCA)	0.016	0.050	ND	ND	
Cannabichromene (CBC)	0.017	0.055	ND	ND	
Total Cannabinoids			3.518	35.18	
Total Potential THC**			0	0	
Total Potential CBD**			3.518	35.18	



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 decorboxylation step.

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

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

Total Cannab minos result reflects the alisolute sum of all carnabinous 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

**Down to Earth Primitive Extracts** 1000mg CBD tincture in Hemp Seed Oil

Batch ID or Lot Number:

Test:

Reported:

Location:

TN23|2101|

**Microbial Contaminants**  2/1/23

16194 W 45th Drive Golden, CO 80403

Matrix:

Finished Product

Test ID:

T000186910

Started: 1/12/23 **USDA License:** 

N/A

Status: N/A

Methods:

Received: 01/11/2023

Sampler ID:

TM25 (qPCR)

TM24, TM26, TM27(Culture Plating):

@ 02:51 PM

N/A

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

Testing results are based solely upon the sample submitted to Botonacor Laboratories, LLC, in the condition it was received. Botonacor 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.











## 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:
	<b>Heavy Metals</b>	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



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.











9508febb60ad4ad1845c428400755137.1