



Product : Daily 25 mg CBD

Batch : 06H1901

**Certificate of Analysis**

**Product :** Softgels containing hemp oil distillate

Target 25.0 mg CBD

**Batch :** 06H1901

**Timeframe :** Initial batch release

Test	Analyte	Acceptance Criteria	Results	Pass	Fail
Cannabinoids	CBD	22.5 to 30.0 mg	27.097 mg (108% of target)	✓	
	THC	<0.3% w/w	<0.3% w/w	✓	
	THC-A	<0.3% w/w	<0.3% w/w	✓	
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 detected	✓	
Heavy metals	Arsenic As	<0.4 ppm	<0.4 ppm	✓	
	Cadmium Cd	<0.4 ppm	<0.4 ppm	✓	
	Lead Pb	<0.5 ppm	<0.5 ppm	✓	
	Mercury Hg	<0.2 ppm	<0.2 ppm	✓	
Residual solvents	Benzene	<2 ppm	<2 ppm	✓	
	Heptane	<500 ppm	<500 ppm	✓	
	Hexane	<10 ppm	<10 ppm	✓	
	Ethanol	<1000 ppm	<1000 ppm	✓	
	Toluene	<20 ppm	<20 ppm	✓	
	Total Xylenes	<100 ppm	<100 ppm	✓	

*\*Product not tested for these analytes, but major component(s) in formulation demonstrated to be free of contamination*

Batch is acceptable and released

Batch is not acceptable and will not be released

Prepared by : Datta

Date : 17 JUN 22

Approved by : Sapli

Date : 17 JUN 22

# CERTIFICATE OF ANALYSIS

Prepared for:  
**PANACEA LIFE SCIENCES**

16194 W 45th Drive  
Golden, CO USA 80403

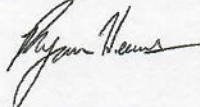
## Daily 25mg CBD

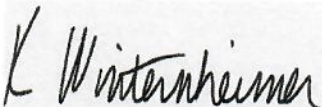
Batch ID or Lot Number: <b>06H1901</b>	Test: <b>Potency</b>	Reported: <b>14Jun2022</b>	USDA License: N/A
Matrix: Unit	Test ID: T000210097	Started: 13Jun2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis	Received: 13Jun2022	Status: Active

## Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.051	0.167	0.710	1.09	# of Servings = 1 Sample Weight=0.65g
Cannabichromenic Acid (CBCA)	0.047	0.152	ND	ND	
Cannabidiol (CBD)	0.145	0.431	27.097	41.67	
Cannabidiolic Acid (CBDA)	0.148	0.442	ND	ND	
Cannabidivarin (CBDV)	0.034	0.102	<LOQ	0.12	
Cannabidivarinic Acid (CBDVA)	0.062	0.185	ND	ND	
Cannabigerol (CBG)	0.029	0.095	0.216	0.33	
Cannabigerolic Acid (CBGA)	0.122	0.395	ND	ND	
Cannabinol (CBN)	0.038	0.123	<LOQ	0.11	
Cannabinolic Acid (CBNA)	0.083	0.270	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.145	0.471	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.131	0.428	0.418	0.64	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.117	0.379	ND	ND	
Tetrahydrocannabivarin (THCV)	0.026	0.086	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.103	0.334	ND	ND	
<b>Total Cannabinoids</b>			<b>28.588</b>	<b>43.97</b>	
Total Potential THC			0.418	0.64	
Total Potential CBD			27.097	41.67	

## Final Approval

  
 Ryan Weems  
 14Jun2022  
 12:07:00 PM MDT  
 PREPARED BY / DATE

  
 Karen Winternheimer  
 14Jun2022  
 12:11:00 PM MDT  
 APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/b2414769-22f2-47bc-a6f9-07fe1455a19a>

### Definitions

% = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method).  
 Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa \*(0.877)) and Total CBD = CBD + (CBDA \*(0.877)).

**CERTIFICATE OF ANALYSIS**

 Prepared for:  
**PANACEA LIFE SCIENCES**

 16194 W 45th Drive  
 Golden, CO USA 80403

**Daily 25mg CBD**

Batch ID or Lot Number: <b>06H1901</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>16Jun2022</b>	USDA License: N/A
Matrix: Finished Product	Test ID: T000210098	Started: 13Jun2022	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 13Jun2022	Status: Active

**Microbial Contaminants**

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

**Final Approval**


 Brianne Maillot  
 16Jun2022  
 10:34:00 AM MDT



 Eden Thompson-Wright  
 16Jun2022  
 11:17:00 AM MDT


PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/a7911e6a-6da4-4569-8a87-6f18f9bc4b4a>

**Definitions**  
 \* 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<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 100,000 CFU  
 CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection  
 ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation  
 STEC = Shiga Toxin-Producing E. coli

Customer: Panacea Life Sciences  
 Customer Sample ID: SG06H1901 OS A C  
 Laboratory Number: 19I0045-01



## Pesticide Profile

Extraction Technician: MTO  
 Analytical Chemist: rdh

Extraction Date(s)	Analysis Date(s)
9/5/2019	9/5/2019

Pesticides	Results	Pos/Neg	LOD(ug/g)
	ug/g		
Abamectin	ND	NEG	0.0111
Acephate	ND	NEG	0.00632
Acequinocyl	ND	NEG	0.0316
Acetamiprid	ND	NEG	0.00316
Aldicarb	ND	NEG	0.00632
Azoxystrobin	ND	NEG	0.00316
Bifenazate	ND	NEG	0.00316
Bifenthrin	ND	NEG	0.00316
Boscalid	ND	NEG	0.00632
Carbaryl	ND	NEG	0.00316
Carbofuran	ND	NEG	0.00316
Chlorantraniliprole	ND	NEG	0.00316
Chlorfenapyr	ND	NEG	0.0158
Chlorpyrifos	ND	NEG	0.00316
Clofentezine	ND	NEG	0.00316
Cyfluthrin	ND	NEG	0.0158
Cypermethrin	ND	NEG	0.0158
Daminozide	ND	NEG	0.0158
DDVP (Dichlorvos)	ND	NEG	0.00158
Diazinon	ND	NEG	0.00316
Dimethoate	ND	NEG	0.00316
Ethoprophos	ND	NEG	0.00316
Etofenprox	ND	NEG	0.00632
Etoxazole	ND	NEG	0.00158
Fenoxycarb	ND	NEG	0.00316
Fenpyroximate	ND	NEG	0.00632
Fipronil	ND	NEG	0.00632
Flonicamid	ND	NEG	0.0158
Fludioxonil	ND	NEG	0.00632
Hexythiazox	ND	NEG	0.0158
Imazalil	ND	NEG	0.00632

Altitude Consulting, LLC utilizes NIST traceable Reference Standards and Certified Reference Material to calibrate analytical instruments along with proven analytical methods. The methods are applied in the most ethical manner following good laboratory practice guidelines. The results of this report are based solely on the sample submitted and cannot be reproduced.

Customer: Panacea Life Sciences  
 Customer Sample ID: SG06H1901  
 Laboratory Number: 19I0045-01



## Pesticide Profile

Extraction Technician: MTO  
 Analytical Chemist: rdh

Extraction Date(s)	Analysis Date(s)
9/5/2019	9/5/2019

Pesticides	Results	Pos/Neg	LOD(ug/g)
	ug/g		
Imidacloprid	ND	NEG	0.00316
Kresoxim-methyl	ND	NEG	0.00632
Malathion	ND	NEG	0.00790
Metalaxyl	ND	NEG	0.00316
Methiocarb	ND	NEG	0.00316
Methomyl	ND	NEG	0.00632
Methyl parathion	ND	NEG	0.0158
MGK-264	ND	NEG	0.00316
Myclobutanil	ND	NEG	0.00632
Naled	ND	NEG	0.00790
Oxamyl	ND	NEG	0.0158
Paclobutrazol	ND	NEG	0.00632
Permethrins	ND	NEG	0.00632
Phosmet	ND	NEG	0.00316
Piperonyl Butoxide	ND	NEG	0.0316
Prallethrin	ND	NEG	0.00316
Propiconazole	ND	NEG	0.00632
Propoxure	ND	NEG	0.00316
Pyrethrins	ND	NEG	0.0790
Pyridaben	ND	NEG	0.00316
Spinosad	ND	NEG	0.00948
Spiromesifen	ND	NEG	0.00474
Spirotetramat	ND	NEG	0.00316
Spiroxamine	ND	NEG	0.00632
Tebuconazole	ND	NEG	0.00158
Thiacloprid	ND	NEG	0.00316
Thiamethoxam	ND	NEG	0.00316
Trifloxystrobin	ND	NEG	0.00316

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**Customer:** Panacea Life Sciences  
**Customer Sample ID:** SG06H1901  
**Laboratory Number:** 19I0045-01



## Metals Profile

<b>Extraction Technician:</b> MF	<b>Extraction Date(s)</b>	<b>Analysis Date(s)</b>	
<b>Analytical Chemist:</b> MF	9/5/2019	9/11/2019	
Metals (ICP/MS)	Method Code	Results	Units
Arsenic	ICPMS.1	<20.0	ppb
Cadmium	ICPMS.1	<10.0	ppb
Lead	ICPMS.1	<5.00	ppb
Mercury	ICPMS.1	<5.00	ppb

Limits for metals vary greatly depending on usage of the sample. Altitude Consulting recommends researching federal and state regulatory limits.

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 SG08H1901

<b>Batch ID:</b>	N/A	<b>Test ID:</b>	4256590.012
<b>Reported:</b>	10-Sep-2019	<b>Method:</b>	TM04
<b>Type:</b>	Edible		
<b>Test:</b>	Residual Solvents		

**RESIDUAL SOLVENTS**

Solvent	Reportable Range (ppm)	Result (ppm)
Propane	100 - 2000	0
Butanes (Isobutane, n-Butane)	100 - 2000	0
Pentane	100 - 2000	0
Ethanol	100 - 2000	0
Acetone	100 - 2000	0
Isopropyl Alcohol	100 - 2000	0
Hexane	6 - 120	0
Benzene	0.2 - 4	0.0
Heptanes	100 - 2000	0
Toluene	18 - 360	0
Xylenes (m,p,o-Xylenes)	43 - 860	0

**NOTES:**

Free from visual mold, mildew, and foreign matter.

**FINAL APPROVAL**


 Alex Smith  
 10-Sep-2019  
 1:43 PM



 David Green  
 10-Sep-2019  
 2:27 PM

PREPARED BY / DATE

APPROVED BY / DATE

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 Certificate Number 4329.02



Certificate #4329.02