CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Organic CBD Tincture - Natural
PRODUCT STRENGTH:	900mg
TINCTURE BATCH:	230131E
BEST BY DATE:	1/31/2025
HEMP EXTRACT LOT:	221012D

Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	Characteristic - Olive and Hemp	PASS
Appearance	Internal	Golden to Amber oil in brown glass bottle with dropper.	PASS
Primary Package Eval.	Internal	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	Internal	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
Potency - Total CBD	HPLC-UV DAD	*NLT (product strength) mg / bottle	**1062mg**	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: 10 ppm (.001-0.3%)	**ND**	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	**ND**	PASS
Microbial Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	**Absent**	PASS
Microbial Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	**Absent**	PASS
Microbial Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	**Below LOQ**	PASS
Microbial Total Coliforms*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	**Below LOQ**	PASS
Microbial Total Aerobic Count*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gram	**Below LOQ**	PASS
Heavy Metals Panel	ICP-MS	Arsenic (As): ≤1.5 ppm Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	**ND**	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb† Afltoxin B1 < 5 ppb Ochratoxin < 5ppb	**ND**	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	**ND**	PASS

* *Level of Quantitation, † Parts Per Million † Part Per Billion CFU/g=Colony Forming Units per Gram
*Nothing Less Than
10^2=100 CFU
10^3=1,000 CFU

Quality Certified

Name

2/22/2023

Date

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CERTIFICATE OF ANALYSIS

900mg CBD Tincture- Natural

Batch ID or Lot Number:	Test:	Reported:	USDA License:
230131E & 230201A	**Potency**	**14Oct2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000224610	13Oct2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	13Oct2022	N/A

Cannabinoids

	LOD (%)	**LOQ** (%)	**Result** (%)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.005	0.016	ND	ND	
Cannabichromenic Acid (CBCA)	0.004	0.015	ND	ND	
Cannabidiol (CBD)	0.014	0.042	3.850	38.50	
Cannabidiolic Acid (CBDA)	0.014	0.043	ND	ND	
Cannabidivarin (CBDV)	0.003	0.010	0.020	0.20	
Cannabidivarinic Acid (CBDVA)	0.006	0.018	ND	ND	
Cannabigerol (CBG)	0.003	0.009	0.190	1.90	
Cannabigerolic Acid (CBGA)	0.011	0.039	ND	ND	
Cannabinol (CBN)	0.003	0.012	ND	ND	
Cannabinolic Acid (CBNA)	0.008	0.026	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.013	0.046	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.012	0.042	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.011	0.037	ND	ND	
Tetrahydrocannabivarin (THCV)	0.002	0.008	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.009	0.033	ND	ND	
Total Cannabinoids			**4.060**	**40.60**	
Total Potential THC			ND	ND	
Total Potential CBD			3.850	38.50	

Final Approval

Karen Winternheimer
15Oct2022
07:37:00 PM MDT

PREPARED BY / DATE

Sam Smith
15Oct2022
07:38:00 PM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/cce27fad-2c9a-4e10-b33c-d0fc0c2b7c4a

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)).

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CERTIFICATE OF ANALYSIS

900mg CBD Tincture- Natural

Batch ID or Lot Number:	Test:	Reported:	USDA License:
230131E & 230201A	**Residual Solvents**	**20Oct2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000224970	19Oct2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	18Oct2022	Active

Residual Solvents	**Dynamic Range** (ppm)	**Result** (ppm)	**Notes**
Propane	84 - 1681	ND	
Butanes (Isobutane, n-Butane)	175 - 3502	ND	
Methanol	55 - 1101	ND	
Pentane	93 - 1864	ND	
Ethanol	90 - 1795	ND	
Acetone	92 - 1841	ND	
Isopropyl Alcohol	93 - 1862	ND	
Hexane	6 - 113	ND	
Ethyl Acetate	92 - 1843	ND	
Benzene	0.2 - 3.7	ND	
Heptanes	94 - 1874	ND	
Toluene	17 - 332	ND	
Xylenes (m,p,o-Xylenes)	124 - 2480	ND	

Final Approval

Samantha Smith

Sam Smith
20Oct2022
08:51:00 AM MDT

PREPARED BY / DATE

K Winternheimer

Karen Winternheimer
20Oct2022
08:54:00 AM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/65057241-e949-4515-b308-7d8225cc2fec

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

Cert #4329.02

Certified Test Laboratory

CDPHE Certified

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Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

900mg CBD Tincture- Natural

Batch ID or Lot Number:	Test:	Reported:	USDA License:
230131E & 230201A	**Mycotoxins**	**21Oct2022**	N/A
Matrix: Concentrate	Test ID: T000224971	Started: 19Oct2022	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 18Oct2022	Status: Active

Mycotoxins	**Dynamic Range** (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	1.37 - 125.83	ND	N/A
Aflatoxin B1	0.90 - 32.04	ND	
Aflatoxin B2	2.43 - 31.54	ND	
Aflatoxin G1	1.03 - 31.76	ND	
Aflatoxin G2	1.25 - 31.64	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Samantha Smith

Sam Smith
21Oct2022
10:29:00 AM MDT

PREPARED BY / DATE

K Winternheimer

Karen Winternheimer
21Oct2022
10:31:00 AM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/3f8e71af-5d87-4f9a-92c0-9e6981d49124

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

Cert #4329.02

Certified Test Laboratory

CDPHE Certified

3f8e71af5d874f9a92c09e6981d49124.1

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Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

900mg CBD Tincture- Natural

Batch ID or Lot Number:	Test:	Reported:	USDA License:
230131E & 230201A	**Heavy Metals**	**25Oct2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000224969	24Oct2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	18Oct2022	NA

Heavy Metals	**Dynamic Range** (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.19	ND	
Cadmium	0.04 - 4.28	ND	
Mercury	0.04 - 3.79	ND	
Lead	0.04 - 4.13	ND	

Final Approval

Samantha Smith

Sam Smith
25Oct2022
08:37:00 AM MDT

PREPARED BY / DATE

K Winternheimer

Karen Winternheimer
25Oct2022
08:42:00 AM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/2a942933-e8d0-4d3d-b035-7455aee89fc2

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

Cert #4329.02

Certified Test Laboratory

CDPHE Certified

2a942933e8d04d3db0357455aee89fc2.1

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CERTIFICATE OF ANALYSIS

900mg CBD Tincture- Natural

Batch ID or Lot Number:	Test:	Reported:	USDA License:
230131E & 230201A	**Pesticides**	**26Oct2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000224967	25Oct2022	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	18Oct2022	NA

Pesticides

	Dynamic Range (ppb)	**Result** (ppb)
Abamectin	251 - 2634	ND
Acephate	35 - 2752	ND
Acetamiprid	36 - 2688	ND
Azoxystrobin	40 - 2741	ND
Bifenazate	38 - 2718	ND
Boscalid	41 - 2823	ND
Carbaryl	40 - 2721	ND
Carbofuran	41 - 2709	ND
Chlorantraniliprole	43 - 2763	ND
Chlorpyrifos	56 - 2830	ND
Clofentezine	279 - 2735	ND
Diazinon	277 - 2745	ND
Dichlorvos	258 - 2688	ND
Dimethoate	37 - 2672	ND
E-Fenpyroximate	283 - 2752	ND
Etofenprox	42 - 2757	ND
Etoxazole	288 - 2732	ND
Fenoxycarb	45 - 2766	ND
Fipronil	58 - 2756	ND
Flonicamid	39 - 2707	ND
Fludioxonil	286 - 2787	ND
Hexythiazox	39 - 2786	ND
Imazalil	259 - 2800	ND
Imidacloprid	42 - 2697	ND
Kresoxim-methyl	17 - 2783	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	288 - 2733	ND
Metalaxyl	40 - 2748	ND
Methiocarb	42 - 2801	ND
Methomyl	34 - 2705	ND
MGK 264 1	144 - 1597	ND
MGK 264 2	113 - 1138	ND
Myclobutanil	45 - 2760	ND
Naled	47 - 2735	ND
Oxamyl	38 - 2691	ND
Paclobutrazol	43 - 2705	ND
Permethrin	282 - 2780	ND
Phosmet	42 - 2720	ND
Prophos	287 - 2746	ND
Propoxur	40 - 2714	ND
Pyridaben	289 - 2762	ND
Spinosad A	30 - 2259	ND
Spinosad D	43 - 500	ND
Spiromesifen	270 - 2789	ND
Spirotetramat	260 - 2788	ND
Spiroxamine 1	16 - 1183	ND
Spiroxamine 2	20 - 1603	ND
Tebuconazole	294 - 2729	ND
Thiacloprid	36 - 2683	ND
Thiamethoxam	40 - 2711	ND
Trifloxystrobin	41 - 2738	ND

Final Approval

Samantha Smith

Sam Smith
26Oct2022
11:01:00 AM MDT

PREPARED BY / DATE

K Winternheimer

Karen Winternheimer
26Oct2022
11:05:00 AM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/a5612923-6a80-4973-8bd1-9ce5edf65caa

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

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Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

900mg CBD Tincture- Natural

Batch ID or Lot Number:	Test:	Reported:	USDA License:
01./1/C $ 01.0./?	**Microbial Contaminants**	**06Feb2023**	N/A
Matrix: Finished Product	Test ID: T000234453	Started: 02Feb2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 02Feb2023	Status: Active

Microbial Contaminants

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

Final Approval

Eden Thompson-Wright
06Feb2023
11:19:00 AM MST

PREPARED BY / DATE

Brett Hudson
06Feb2023
04:04:00 PM MST

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/a1ab9c29-9071-4e98-aeba-08e7f3f1cd44

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

Cert #4329.02

Certified Test Laboratory

CDPHE Certified

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