CERTIFICATE OF ANALYSIS

PRODUCT NAME: *Organic - Broad Spectrum CBD Tincture - Natural
PRODUCT STRENGTH: 2250 mg / bottle
TINCTURE BATCH: 22082A
BEST BY DATE: 09/10/2023
HEMP EXTRACT LOT: D0214-001

Click on the links to view third-party reports

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	LOQ*: ≥ product strength mg / bottle	**2,488.91 mg**	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	**Below LOQ**	PASS
Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	**Below LOQ**	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	ICP-MS	Arsenic (As): ≤1.5 ppm† Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	**Below LOQ**	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb†† Afltoxin B1 < 5 ppb Ochratoxin < 5 ppb	**Below LOQ**	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	**Below LOQ**	PASS

*Level of Quantification
**Colony Forming Units per Gram
† Parts Per Million †† Part Per Billion

Values expressed in scientific notation.
Examples:
10^2=100
10^3=1,000

Quality Certified — Cody Elbrader — 03/25/2022
Cody Elbrader, Quality Assurance Technician — Date

botanacor

Official Compliance: Colorado

D0214-001

Batch ID or Lot Number:	Test:	Reported:	USDA License:
BEVOO2250	**Potency**	**21Feb2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000193671	18Feb2022	N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis (Colorado Panel)	Received: 17Feb2022	Status: N/A

Cannabinoids

	LOD (%)	**LOQ** (%)	**Result** (%)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.018	0.057	ND	ND	
Cannabichromenic Acid (CBCA)	0.016	0.052	ND	ND	
Cannabidiol (CBD)	0.042	0.151	8.733	87.33	
Cannabidiolic Acid (CBDA)	0.043	0.155	ND	ND	
Cannabidivarin (CBDV)	0.010	0.036	0.046	0.46	
Cannabidivarinic Acid (CBDVA)	0.018	0.065	ND	ND	
Cannabigerol (CBG)	0.010	0.032	0.644	6.44	
Cannabigerolic Acid (CBGA)	0.042	0.136	ND	ND	
Cannabinol (CBN)	0.013	0.042	ND	ND	
Cannabinolic Acid (CBNA)	0.029	0.093	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.050	0.162	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.045	0.147	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.040	0.130	ND	ND	
Tetrahydrocannabivarin (THCV)	0.009	0.030	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.035	0.115	ND	ND	
Total Cannabinoids			**9.423**	**94.23**	
Total Potential THC**			ND	ND	
Total Potential CBD**			8.733	87.33	

Final Approval

Hannah Wright
21Feb2022
01:47:00 PM MST

PREPARED BY / DATE

Ryan Weems
21Feb2022
01:49:00 PM MST

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/5f286e5c-5627-4fa7-ba4f-03c4bb6b56c6

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)).

Cert #4329.02

CDPHE Certified

5f286e5c56274fa7ba4f03c4bb6b56c6.1

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D0214-001

Batch ID or Lot Number:	Test:	Reported:	USDA License:
BEVOO2250	**Pesticides**	**22Feb2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000193672	21Feb2022	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	17Feb2022	NA

Pesticides

	Dynamic Range (ppb)	**Result** (ppb)
Abamectin	296 - 2788	ND
Acephate	23 - 2806	ND
Acetamiprid	38 - 2786	ND
Azoxystrobin	71 - 2736	ND
Bifenazate	42 - 2786	ND
Boscalid	83 - 2759	ND
Carbaryl	41 - 2722	ND
Carbofuran	42 - 2747	ND
Chlorantraniliprole	63 - 2876	ND
Chlorpyrifos	42 - 2815	ND
Clofentezine	284 - 2744	ND
Diazinon	290 - 2796	ND
Dichlorvos	292 - 2852	ND
Dimethoate	39 - 2802	ND
E-Fenpyroximate	326 - 2886	ND
Etofenprox	42 - 2746	ND
Etoxazole	296 - 2812	ND
Fenoxycarb	45 - 2741	ND
Fipronil	44 - 2798	ND
Flonicamid	40 - 2839	ND
Fludioxonil	316 - 2809	ND
Hexythiazox	62 - 2744	ND
Imazalil	276 - 2758	ND
Imidacloprid	44 - 2808	ND
Kresoxim-methyl	81 - 2757	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	301 - 2748	ND
Metalaxyl	45 - 2822	ND
Methiocarb	46 - 2867	ND
Methomyl	35 - 2773	ND
MGK 264 1	150 - 1593	ND
MGK 264 2	122 - 1146	ND
Myclobutanil	42 - 2783	ND
Naled	44 - 2758	ND
Oxamyl	36 - 2727	ND
Paclobutrazol	41 - 2656	ND
Permethrin	268 - 2785	ND
Phosmet	39 - 2784	ND
Prophos	299 - 2812	ND
Propoxur	42 - 2710	ND
Pyridaben	296 - 2756	ND
Spinosad A	31 - 2280	ND
Spinosad D	50 - 513	ND
Spiromesifen	375 - 2753	ND
Spirotetramat	296 - 2874	ND
Spiroxamine 1	13 - 1216	ND
Spiroxamine 2	18 - 1608	ND
Tebuconazole	290 - 2717	ND
Thiacloprid	40 - 2788	ND
Thiamethoxam	40 - 2807	ND
Trifloxystrobin	39 - 2788	ND

Final Approval

Sam Smith
22Feb2022
12:13:00 PM MST

PREPARED BY / DATE

Daniel Weidensaul
22Feb2022
12:19:00 PM MST

APPROVED BY / DATE

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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

Cert #4329.02
c3e7ed1e50f64847acf6336fb2b57081.2

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Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

OTNAT2250

Batch ID or Lot Number:	Test:	Reported:	
22082A	**Microbial Contaminants**	**3/25/22**	
Matrix:	Test ID:	Started:	USDA License:
Finished Product	T000199349	3/22/22	N/A
Status:	Methods:	Received:	Sampler ID:
N/A	TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	03/22/2022 @ 09:59 AM	N/A

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
STEC	TM-25, PCR	10^0 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	10^0 CFU/25 g	NA	NA	Absent

Notes

Free from visual mold, mildew, and foreign matter

Carly Bader
3/25/2022
11:02:00 AM

PREPARED BY / DATE

Jackson Osaghae-Nosa
3/25/2022
12:00:00 PM

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 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.

CDPHE Certified

Certificate #4329.02

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Official Compliance: Colorado

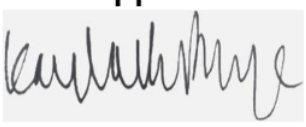
D0214-001

Batch ID or Lot Number:	Test:	Reported:	USDA License:
BEVOO2250	**Heavy Metals**	**21Feb2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000193674	18Feb2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	17Feb2022	NA

Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.34	ND	
Cadmium	0.04 - 4.45	ND	
Mercury	0.04 - 4.49	ND	
Lead	0.04 - 4.01	ND	

Final Approval



Kayla Phye
22Feb2022
05:29:00 PM MST

PREPARED BY / DATE

Ryan Weems
22Feb2022
05:44:00 PM MST

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/89c3c78a-e588-48c5-a204-9596bdde2a72

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

CDPHE Certified

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Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

D0214-001

Batch ID or Lot Number:	Test:	Reported:
BEVOO2250	**Mycotoxins**	**2/21/22**

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000193676	2/18/22	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	02/17/2022 @ 11:04 AM	N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)
Ochratoxin A	3.3 - 129.6	ND
Aflatoxin B1	1 - 32.1	ND
Aflatoxin B2	1.2 - 31.9	ND
Aflatoxin G1	1.2 - 31.9	ND
Aflatoxin G2	1.4 - 30.5	ND
Total Aflatoxins (B1, B2, G1, and G2)		ND

Notes

N/A

Ryan Weems
21-Feb-22
12:35 PM
PREPARED BY / DATE

Sam Smith
21-Feb-22
12:37 PM
APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

CDPHE Certified

Certificate #4329.02

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.

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Official Compliance: Colorado

D0214-001

Batch ID or Lot Number:	Test:	Reported:	USDA License:
BEVOO2250	**Residual Solvents**	**21Feb2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000193675	21Feb2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	17Feb2022	N/A

Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	76 - 1530	ND	
Butanes (Isobutane, n-Butane)	156 - 3115	ND	
Methanol	55 - 1092	ND	
Pentane	82 - 1641	ND	
Ethanol	81 - 1611	157	
Acetone	87 - 1745	ND	
Isopropyl Alcohol	89 - 1774	ND	
Hexane	5 - 108	ND	
Ethyl Acetate	87 - 1746	ND	
Benzene	0.2 - 3.5	ND	
Heptanes	87 - 1748	ND	
Toluene	16 - 312	ND	
Xylenes (m,p,o-Xylenes)	109 - 2176	ND	

Final Approval

Ryan Weems
22Feb2022
05:27:00 PM MST
PREPARED BY / DATE

Daniel Weidensaul
22Feb2022
05:33:00 PM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/e54ad2db-da47-465d-a7b8-48c345c0fa9c

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

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