

PRODUCT NAME: Organic CBD Tincture - Natural

PRODUCT STRENGTH: 900mg

TINCTURE BATCH: 220614A, 220527F, 220629B

BEST BY DATE: 6/8/2024

HEMP EXTRACT LOT: BCA-000389-220607

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Olive and Hemp	PASS
Appearance	Joy Internal	Golden to Amber oil in brown glass bottle with dropper.	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	Joy 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	32.4mg	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

Color

8/10/22

Quality Certified

Date



900 Natural

Batch ID or Lot Number: 220614A, 220527F	Test:	Reported:	USDA License:
	Potency	24Jun2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000211077	23Jun2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	21Jun2022	N/A

Cannabinoids	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
Cannabichromene (CBC)	0.006	0.017	ND	ND
Cannabichromenic Acid (CBCA)	0.005	0.016	ND	ND
Cannabidiol (CBD)	0.013	0.044	3.530	35.30
Cannabidiolic Acid (CBDA)	0.013	0.045	ND	ND
Cannabidivarin (CBDV)	0.003	0.010	0.020	0.20
Cannabidivarinic Acid (CBDVA)	0.006	0.019	ND	ND
Cannabigerol (CBG)	0.003	0.010	0.260	2.60
Cannabigerolic Acid (CBGA)	0.013	0.041	ND	ND
Cannabinol (CBN)	0.004	0.013	ND	ND
Cannabinolic Acid (CBNA)	0.009	0.028	ND	ND
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.016	0.049	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.014	0.044	ND	ND
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.013	0.039	ND	ND
Tetrahydrocannabivarin (THCV)	0.003	0.009	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.011	0.035	ND	ND
Total Cannabinoids			3.810	38.10
Total Potential THC			ND	ND
Total Potential CBD			3.530	35.30

Final Approval

anul Wastonsand 24Jun 01:26

PREPARED BY / DATE

Daniel Weidensaul 24Jun2022 01:26:00 PM MDT APPROVED BY / DATE

Jacob Miller 24Jun2022 01:28:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/eecf286e-fc8c-465b-bbb7-378f08c5914d

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-THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877)).

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 17025:2017 Accredited by A2LA.







Cert #4329.02 eecf286efc8c465bbbb7378f08c5914d.1



900 mg 5G Broad Spectrum Tincture Bulk in EVOO

Batch ID or Lot Number:	Test:	Reported:	USDA License:
BCA-000389-220607	Pesticides	16Jun2022	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000209812	14Jun2022	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	10Jun2022	NA

Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	365 - 2660	ND
Acephate	45 - 2774	ND
Acetamiprid	43 - 2778	ND
Azoxystrobin	40 - 2739	ND
Bifenazate	42 - 2765	ND
Boscalid	15 - 2744	ND
Carbaryl	40 - 2776	ND
Carbofuran	43 - 2761	ND
Chlorantraniliprole	46 - 2731	ND
Chlorpyrifos	47 - 2776	ND
Clofentezine	306 - 2776	ND
Diazinon	298 - 2777	ND
Dichlorvos	311 - 2758	ND
Dimethoate	45 - 2766	ND
E-Fenpyroximate	296 - 2737	ND
Etofenprox	42 - 2726	ND
Etoxazole	299 - 2708	ND
Fenoxycarb	45 - 2737	ND
Fipronil	39 - 2733	ND
Flonicamid	4 - 2732	ND
Fludioxonil	260 - 2633	ND
Hexythiazox	49 - 2737	ND
Imazalil	286 - 2760	ND
Imidacloprid	51 - 2800	ND
Kresoxim-methyl	53 - 2822	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	304 - 2758	ND
Metalaxyl	51 - 2788	ND
Methiocarb	39 - 2735	ND
Methomyl	42 - 2747	ND
MGK 264 1	187 - 1618	ND
MGK 264 2	129 - 1129	ND
Myclobutanil	37 - 2661	ND
Naled	28 - 2666	ND
Oxamyl	3 - 2768	ND
Paclobutrazol	41 - 2732	ND
Permethrin	340 - 2681	ND
Phosmet	41 - 2752	ND
Prophos	290 - 2708	ND
Propoxur	39 - 2744	ND
Pyridaben	302 - 2767	ND
Spinosad A	36 - 2242	ND
Spinosad D	55 - 497	ND
Spiromesifen	306 - 2722	ND
Spirotetramat	292 - 2784	ND
Spiroxamine 1	17 - 1160	ND
Spiroxamine 2	21 - 1502	ND
Tebuconazole	259 - 2755	ND
Thiacloprid	41 - 2763	ND
Thiamethoxam	45 - 2752	ND
Trifloxystrobin	41 - 2736	ND

Final Approval



Karen Winternheimer 16Jun2022 04:48:00 PM MDT Daniel Westersand

Daniel Weidensaul 16Jun2022 05:01:00 PM MDT



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/f3024b12-9b3e-454e-8b15-031fa6dc723d

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

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 17025:2017 Accredited by A2LA.







Cert #4329.02 f3024b129b3e454e8b15031fa6dc723d.1



900 mg 5G Broad Spectrum Tincture Bulk in EVOO

Batch ID or Lot Number:	Test:	Reported:	USDA License:
BCA-000389-220607	Heavy Metals	14Jun2022	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000209813	14Jun2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	10Jun2022	NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes	
Arsenic	0.05 - 4.58	ND		
Cadmium	0.05 - 4.53	ND		
Mercury	0.04 - 4.43	ND		
Lead	0.05 - 4.66	ND		

Final Approval

Ryan Weems 14Jun2022

PREPARED BY / DATE

02:50:00 PM MDT

APPROVED BY / DATE

Daniel Weidensaul 14Jun2022 02:53:00 PM MDT

https://results.botanacor.com/api/v1/coas/uuid/f6748d30-6fdd-4791-80a7-c909ec3f3a99

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 17025:2017 Accredited by A2LA.











f6748d306fdd479180a7c909ec3f3a99.1



900 mg 5G Broad Spectrum Tincture Bulk in EVOO

Batch ID or Lot Number: BCA-000389-220607	Test: Potency	Reported: 14Jun2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000209811	13Jun2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD): Potency –	10Jun2022	Active
	Standard Cannabinoid Analysis		

Cannabinoids	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
Cannabichromene (CBC)	0.017	0.054	ND	ND
Cannabichromenic Acid (CBCA)	0.015	0.049	ND	ND
Cannabidiol (CBD)	0.047	0.139	3.405	34.05
Cannabidiolic Acid (CBDA)	0.048	0.143	ND	ND
Cannabidivarin (CBDV)	0.011	0.033	<loq< td=""><td>0.12</td></loq<>	0.12
Cannabidivarinic Acid (CBDVA)	0.020	0.060	ND	ND
Cannabigerol (CBG)	0.009	0.030	0.221	2.21
Cannabigerolic Acid (CBGA)	0.039	0.127	ND	ND
Cannabinol (CBN)	0.012	0.040	ND	ND
Cannabinolic Acid (CBNA)	0.027	0.087	ND	ND
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.047	0.152	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.042	0.138	ND	ND
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.038	0.122	ND	ND
Tetrahydrocannabivarin (THCV)	0.009	0.028	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.033	0.108	ND	ND
Total Cannabinoids			3.638	36.38
Total Potential THC			ND	ND
Total Potential CBD			3.405	34.05

Final Approval

PREPARED BY / DATE

Ryan Weems 14Jun2022 12:07:00 PM MDT

Karen Winternheimer 14Jun2022 12:11:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/08cc1533-84b5-4a8e-80c5-f618bbdeb67b

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)).

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 17025:2017 Accredited by A2LA.











08cc153384b54a8e80c5f618bbdeb67b.1



900 Natural

Batch ID or Lot Number: 220614A, 220527F	Test: Microbial Contaminants	Reported: 27Jun2022	USDA License: NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000211078 Method(s):	22Jun2022 Received:	NA Status:
	TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	21Jun2022	NA

Microbial Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10 ⁰ CFU/g	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

PREPARED BY / DATE

CarlyBade

Carly Bader 25Jun2022 12:50:00 PM MDT

Eden Thompson

Eden Thompson-Wright 27Jun2022 09:32:00 AM MDT



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/f833dab2-7a86-42a0-9d13-d17ec12a16cd

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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 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

Laboratories, LLC. ISO/IEC 17025:2017 Accredited by A2LA.

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







Cert #4329.02 f833dab27a8642a09d13d17ec12a16cd.1



900 mg 5G Broad Spectrum Tincture Bulk in EVOO

Batch ID or Lot Number: BCA-000389-220607	Test: Mycotoxins	Reported: 14Jun2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000209815	13Jun2022	N/A
	Method(s):	Received:	Status:
	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	10Jun2022	Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.75 - 130.56	ND	N/A
Aflatoxin B1	1.02 - 32.57	ND	
Aflatoxin B2	1.05 - 32.35	ND	
Aflatoxin G1	0.99 - 32.70	ND	
Aflatoxin G2	1.05 - 32.66	ND	
Total Aflatoxins (B1, B2, G1,	and G2)	ND	

Final Approval

PREPARED BY / DATE

Jacob Miller 14Jun2022 02:49:00 PM MDT

APPROVED BY / DATE

Ryan Weems 14Jun2022 02:52:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/c59f3eb4-008d-41b3-a826-15b3a83185b3

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 17025:2017 Accredited by A2LA.











c59f3eb4008d41b3a82615b3a83185b3.1



900 mg 5G Broad Spectrum Tincture Bulk in EVOO

Batch ID or Lot Number: BCA-000389-220607	Test: Residual Solvents	Reported: 14Jun2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000209814	14Jun2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	10Jun2022	Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	91 - 1825	ND	
Butanes (Isobutane, n-Butane)	139 - 2779	ND	
Methanol	57 - 1131	ND	
Pentane	81 - 1620	ND	
Ethanol	82 - 1640	ND	
Acetone	88 - 1752	ND	
Isopropyl Alcohol	93 - 1850	ND	
Hexane	6 - 114	ND	
Ethyl Acetate	91 - 1828	ND	
Benzene	0.2 - 3.7	ND	
Heptanes	89 - 1783	ND	
Toluene	17 - 332	ND	
Xylenes (m,p,o-Xylenes)	121 - 2428	ND	

Final Approval

PREPARED BY / DATE

Jacob Miller 14Jun2022 05:51:00 PM MDT APPROVED BY / DATE

Ryan Weems 14Jun2022 05:55:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/8bdc2347-eb59-41b2-b5b8-b052adf9cdbd

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 17025:2017 Accredited by A2LA.











8bdc2347eb5941b2b5b8b052adf9cdbd.1