

Organic CBD Tincture - Mint **PRODUCT NAME:**

PRODUCT STRENGTH: TINCTURE BATCH:

900mg 221111A

BEST BY DATE: HEMP EXTRACT LOT: 11/1/2024 221012D

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Olive and Hemp, Minty	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	LOQ*: ≥ product strength mg / bottle	1032mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	Below LOQ	PASS
Expanded 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 < 5ppb	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

Quality Certified

12/7/2022

Date

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



OTM900

Batch ID or Lot Number: 22111A	Test: Potency	Reported: 14Oct2022	USDA License: N/A	
Matrix: Concentrate	Test ID: T000224610	Started: 13Oct2022	Sampler ID: N/A	
	Method(s): TM14 (HPLC-DAD)	Received: 13Oct2022	Status: N/A	

Cannabinoids	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
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

L Wintenheumen PREPARED BY / DATE Karen Winternheimer 15Oct2022 07:37:00 PM MDT

Samantha Smoll

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)).

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.







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OTM900

Batch ID or Lot Number:	Test:	Reported: 20Oct2022	USDA License:
22111A	Residual Solvents		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



Sam Smith 20Oct2022 08:51:00 AM MDT

L Wittenheimer APPROVED BY / DATE Karen Winternheimer 20Oct2022 08:54:00 AM MDT



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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

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Cert #4329.02

CDPHE Certified 65057241e9494515b3087d8225cc2fec.1



OTM900

Batch ID or Lot Number:	Test:	Reported: 21Oct2022	USDA License:
221111A	Mycotoxins		N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000224971	19Oct2022	N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 18Oct2022	Status: Active

1.37 - 125.83	ND	N/A
0.90 - 32.04	ND	
2.43 - 31.54	ND	
1.03 - 31.76	ND	
1.25 - 31.64	ND	
and G2)	ND	
	0.90 - 32.04 2.43 - 31.54 1.03 - 31.76 1.25 - 31.64	0.90 - 32.04 ND 2.43 - 31.54 ND 1.03 - 31.76 ND 1.25 - 31.64 ND

Final Approval

Sowantha Smull

Sam Smith 21Oct2022 10:29:00 AM MDT

APPROVED BY / DATE

Karen Winternheimer 21Oct2022 10:31:00 AM MDT



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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

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Cert #4329.02

CDPHE Certified 3f8e71af5d874f9a92c09e6981d49124.1





OTM900

Batch ID or Lot Number: 221111A	Test: Heavy Metals	Reported: 25Oct2022	USDA License: 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		

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PREPARED BY / DATE

Sam Smith 25Oct2022

08:37:00 AM MDT

APPROVED BY / DATE

Karen Winternheimer 25Oct2022 08:42:00 AM MDT



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

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OTM900

Batch ID or Lot Number:	Test:	Reported: 26Oct2022	USDA License:
221111A	Pesticides		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

PREPARED BY / DATE



Sam Smith 26Oct2022 11:01:00 AM MDT L Winternheimer APPROVED BY / DATE Karen Winternheimer 26Oct2022 11:05:00 AM MDT



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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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OTM900

Batch ID or Lot Number: 221111A	Test: Microbial Contaminants	Reported: 18Nov2022	USDA License: N/A			
Matrix:	Test ID:	Started:	Sampler ID:			
Finished Product	T000227693	15Nov2022	N/A			
	Method(s):	Received:	Status:			
	TM25 (qPCR) TM24, TM26, TM27	14Nov2022	Active			
	(Culture Plating): Microbial (Colorado					
	Panel)					

Microbial			Quantitation		
Contaminants	Method	LOD	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

Eder Thompson

Eden Thompson-Wright 18Nov2022 10:50:00 AM MST

Rest ledur

Brett Hudson 18Nov2022 04:15:00 PM MST



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https://results.botanacor.com/api/v1/coas/uuid/a5be25c1-0ede-4174-98b0-a8ea26f94f17

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

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