

PRODUCT NAME:

Organic CBD Tincture - Natural

900mg

 TINCTURE BATCH:
 3006

 BEST BY DATE:
 4/12/2024

#### 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	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

11/1/2022

Date



### OTONAT900-3006

Batch ID or Lot Number: 221012D	Test: <b>Potency</b>	Reported: <b>14Oct2022</b>	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
「etrahydrocannabivarin (THCV)	0.002	0.008	ND	ND
Fetrahydrocannabivarinic Acid (THCVA)	0.009	0.033	ND	ND
otal Cannabinoids			4.060	40.60
otal Potential THC			ND	ND
otal Potential CBD			3.850	38.50

**Final Approval** 

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

Sowantha Smul

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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### OTONAT900-3006

Batch ID or Lot Number: <b>221012D</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 5
Reported:	Started:	Received:	
20Oct2022	19Oct2022	18Oct2022	

## **Residual Solvents -Colorado Compliance**

Test ID: T000224970

Methods: TM04 (GC-MS): 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 Smill 200ct2022 08:51:00 AM MDT

Sam Smith

PREPARED BY / DATE

MENHUME 08:54:00 AM MDT APPROVED BY / DATE

Karen Winternheimer 20Oct2022



from visual mold, mildew, and

### OTONAT900-3006

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 2 of 5
221012D	Various	Concentrate	
Reported:	Started:	Received:	
20Oct2022	19Oct2022	18Oct2022	

## **Mycotoxins - Colorado Compliance**

Test ID: T000224971

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins	<b>Dynamic Range</b> (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 C	G2)	ND	

#### **Final Approval**

Sawantha Small 210ct2022 10:29:00 AM MDT

Sam Smith

Withhelmer 10:31:00 AM MDT APPROVED BY / DATE

Karen Winternheimer 21Oct2022

### **Microbial**

PREPARED BY / DATE

# **Contaminants** -

## **Colorado Compliance**

Test ID: T000224968

Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial

TM27 (Culture Plating): Microbial (Colorado Panel)	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visua
Salmonella	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	- foreign matter
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	0
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** 

Eden Thompson

PREPARED BY / DATE

Eden Thompson-Wright 21Oct2022 03:19:00 PM MDT

Brianne Maillot 21Oct2022 04:17:00 PM MDT

APPROVED BY / DATE



### OTONAT900-3006

Batch ID or Lot Number: <b>221012D</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 5
Reported:	Started:	Received:	
20Oct2022	19Oct2022	18Oct2022	

## **Heavy Metals -Colorado Compliance**

Test ID: T000224969

Methods: TM19 (ICP-MS): 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** 

Sawantha Smul 250ct2022 08:37:00 AM MDT

Sam Smith

PREPARED BY / DATE

Karen Winternheimer 25Oct2022 Writersheimer 08:42:00 AM MDT



### OTONAT900-3006

Batch ID or Lot Number: <b>221012D</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 5
Reported:	Started:	Received:	
20Oct2022	19Oct2022	18Oct2022	

### **Pesticides**

Test ID: T000224967 Methods: TM17

(LC-QQ LC MS/MS)	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	

	<b>Dynamic Range</b> (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 Smoth

Sam Smith 26Oct2022 11:01:00 AM MDT

PREPARED BY / DATE

Withhelmer 11:05:00 AM MDT APPROVED BY / DATE

Karen Winternheimer 26Oct2022





#### OTNAT900-3006

Batch ID or Lot Number: <b>221017D</b>	Test: Microbial Contaminants	Reported: 24Oct2022	USDA License: N/A		
Matrix:	Test ID:	Started:	Sampler ID:		
Finished Product	T000225110	19Oct2022	N/A		
	Method(s):	Received:	Status:		
	TM25 (qPCR) TM24, TM26, TM27	19Oct2022	Active		
	(Culture Plating): Microbial (Colorado				
	Panel)				

Microbial		Ouantitation	Quantitation			
Contaminants	Method	LOD	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>	<lloq< td=""><td>_</td></lloq<>	_	
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** 

Eder Thempson

Eden Thompson-Wright 24Oct2022 02:39:00 PM MDT

APPROVED BY / DATE

Brett Hudson 24Oct2022 05:47:00 PM MDT



PREPARED BY / DATE

DATE

https://results.botanacor.com/api/v1/coas/uuid/5e4d5d54-c56d-432b-a890-a5633a7fe36e

#### **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

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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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