

# Official Compliance: Colorado CERTIFICATE OF ANALYSIS

Prepared for:

### Cinnamint 4000mg Tincture - 210070

# Elixinol LLC

Daniel Weidensaul

9-Nov-21

7:50 PM

Batch ID or Lot Number: <b>210070</b>	Test: <b>Potency</b>	Reported: <b>11/9/21</b>	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
Matrix: Solution	Test ID: T000174237	Started: 11/9/21	USDA License: N/A
Status: N/A	Method: TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis (Colorado Panel)	Received: 11/03/2021 @ 02:16 PM	Sampler ID: N/A

# **CANNABINOID** PROFILE

Compound	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notos
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.138	0.425	ND	ND	Notes
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.156	0.479	1.871	1.98	Density = 0.943061g/mL
Cannabidiolic acid (CBDA)	0.170	0.520	2.023	2.15	, ,
Cannabidiol (CBD)	0.165	0.507	44.159	46.83	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.171	0.528	ND	ND	
Cannabinolic Acid (CBNA)	0.098	0.302	ND	ND	
Cannabinol (CBN)	0.045	0.138	0.142	0.15	
Cannabigerolic acid (CBGA)	0.144	0.443	ND	ND	
Cannabigerol (CBG)	0.034	0.106	0.745	0.79	
Tetrahydrocannabivarinic Acid (THCVA)	0.122	0.374	ND	ND	
Tetrahydrocannabivarin (THCV)	0.031	0.096	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.071	0.217	ND	ND	
Cannabidivarin (CBDV)	0.039	0.120	0.103*	0.11*	
Cannabichromenic Acid (CBCA)	0.055	0.171	0.091*	0.1*	
Cannabichromene (CBC)	0.061	0.187	1.422	1.51	
Total Cannabinoids			50.556	53.61	
				1.00	

Total califications	501550	55101
Total Potential THC**	1.871	1.98
Total Potential CBD**	45.933	48.71

Ryan Weems 09-Nov-2021 07:45 PM

Daniel Wardansard

APPROVED BY / DATE

### PREPARED BY / DATE

### Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Indicates a value below the Limit of Quantitiation (LOQ) and above the Limit of Detection (LOD).

\*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during

decarboxylation step.

Total THC = THC + (THCa \*(0.877)) and

Total CBD = CBD + (CBDa \*(0.877))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected. ND = None Detected (Defined by Dynamic Range of the method)

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.







### prepared for: Elixinol LLC 10170 Church Ranch Way, Ste 400

Westminster, CO 80021

### Cinnamint 4000mg Tincture - 210070

Batch ID:	210070	Test ID:	T000174242
Туре:	Concentrate	Submitted:	11/03/2021 @ 02:16 PM
Test:	Density	Started:	11/5/2021
Method:	TL-SOP-0034 (Gravimetric)	Reported:	11/8/2021

# DENSITY

Value	Units
0.943	g/mL

NOTES: Free from visual mold, mildew, and foreign matter

# **FINAL** APPROVAL

PREPARED BY / DATE





Rvan Weems 8-Nov-2021 1:25 PM

APPROVED BY / DATE

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# CERTIFICATE OF ANALYSIS

Prepared for:

#### **Elixinol LLC** Cinnamint 4000mg Tincture - 210070 Batch ID or Lot Number: Reported: Test: Location: 10170 Church Ranch Way, Ste 400 210070 Pesticides 11/9/21 Westminster, CO 80021 Test ID: USDA License: Matrix: Started: T000174238 Concentrate 11/8/21 N/A Method: Sampler ID: Status: Received: N/A TM17(LC-QQQ LC MS/MS): 11/03/2021 @ 02:16 PM N/A

# **PESTICIDE** DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	54	ND	Fenoxycarb	56	ND	Paclobutrazol	58	ND
Acetamiprid	60	ND	Fipronil	92	ND	Permethrin	297	ND
Avermectin	341	ND	Flonicamid	61	ND	Phosmet	57	ND
Azoxystrobin	57	ND	Fludioxonil	326	ND	Prophos	278	ND
Bifenazate	54	ND	Hexythiazox	55	ND	Propoxur	55	ND
Boscalid	60	ND	Imazalil	284	ND	Pyridaben	303	ND
Carbaryl	54	ND	Imidacloprid	62	ND	Spinosad A	43	ND
Carbofuran	57	ND	Kresoxim-methyl	150	ND	Spinosad D	56	ND
Chlorantraniliprole	67	ND	Malathion	296	ND	Spiromesifen	301	ND
Chlorpyrifos	500	ND	Metalaxyl	55	ND	Spirotetramat	307	ND
Clofentezine	290	ND	Methiocarb	60	ND	Spiroxamine 1	25	ND
Diazinon	305	ND	Methomyl	56	ND	Spiroxamine 2	32	ND
Dichlorvos	290	ND	MGK 264 1	172	ND	Tebuconazole	300	ND
Dimethoate	57	ND	MGK 264 2	125	ND	Thiacloprid	57	ND
E-Fenpyroximate	250	ND	Myclobutanil	48	ND	Thiamethoxam	58	ND
Etofenprox	58	ND	Naled	57	ND	Trifloxystrobin	56	ND
Etoxazole	307	ND	Oxamyl	1500	ND			

Daniel Weidensaul Daniel Weidensaul 11/9/2021 3:30:00 PM Daniel Weidensaul 11/9/2021 3:36:00 PM Sam Smith 11/9/2021 3:36:00 PM

APPROVED BY / DATE

PREPARED BY / DATE

**Definitions** LOQ = Limit of Quantification ppb = Parts per Billion

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# Cinnamint 4000mg Tincture - 210070

# Official Compliance: Colorado CERTIFICATE OF ANALYSIS

Prepared for:

Elixinol LLC

Batch ID or Lot Number: <b>210070</b>	Test: <b>Metals</b>	Reported: <b>11/10/21</b>	Location: 10170 Church Ranch Way, Ste 40( Westminster, CO 80021
Matrix: Unit Co	Test ID: T000174240	Started: 11/9/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 11/03/2021 @ 02:16 PM	Sampler ID: N/A

# **HEAVY METALS DETERMINATION**

Compound	ł	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic		0.040 - 4.01	ND	-
Cadmium		0.040 - 4.04	ND	-
Mercury		0.041 - 4.11	ND	
Lead		0.040 - 4.04	ND	
	Sam Smith	1 al	Rvan Weems	
Somenthe Smil	Sam Smith 10-Nov-21 10:17 AM	Higon Hen	Ryan Weems 10-Nov-21 10:20 AM	

### Definitions

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



duluh

CDPHE Certified

Certificate #4329.02

ACCREDITED

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.



Official Compliance: Colorado CERTIFICATE OF ANALYSIS

Prepared for:

# Cinnamint 4000mg Tincture - 210070

# Elixinol LLC

Batch ID or Lot Number: <b>210070</b>	Test: <b>Residual Solvents</b>	Reported: <b>11/5/21</b>	Location: 10170 Church Ranch Way, Ste 40( Westminster, CO 80021
Matrix: N/A	Test ID: T000174241	Started: 11/5/21	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solven (Colorado Panel)	Received: ts 11/03/2021 @ 02:16 PM	Sampler ID: N/A

# **RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	76 - 1512	*ND	-
Butanes (Isobutane, n-Butane)	145 - 2890	*ND	
Methanol	64 - 1289	*ND	
Pentane	86 - 1717	*ND	
Ethanol	101 - 2013	*ND	
Acetone	100 - 1993	*ND	
Isopropyl Alcohol	110 - 2200	*ND	
Hexane	6 - 112	*ND	
Ethyl Acetate	103 - 2062	*ND	
Benzene	0.2 - 4.2	*ND	
Heptanes	97 - 1938	*ND	
Toluene	19 - 379	*ND	
<b>Xylenes</b> (m,p,o-Xylenes)	145 - 2906	*ND	

K Winternheimer	Karen Winternheimer 5-Nov-21 3:21 PM	Samantha Small	Sam Smith 5-Nov-21 3:26 PM
PREPARED BY / DATE		APPROVED BY / DATE	

### Definitions

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



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Official Compliance: Colorado CERTIFICATE OF ANALYSIS

Prepared for:

# Cinnamint 4000mg Tincture - 210070

# Elixinol LLC

Batch ID or Lot Number: <b>210070</b>	<sup>Test:</sup> <b>Microbial</b> Contaminants	Reported: <b>11/8/21</b>	Location: 10170 Church Ranch Way, Ste 40( Westminster, CO 80021
Matrix: Finished Product	Test ID: T000174239	Started: 11/4/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 11/03/2021 @ 02:16 PM	Sampler ID: N/A

### MICROBIAL CONTAMINANTS DETERMINATION

Method	LOD	LLOQ	ULOQ	Result	Notes
TM-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected	Free from visual mold,
TM-27, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected	mildew, and foreign matter
TM-24, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected	
TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
	TM-26, Culture Plating TM-27, Culture Plating TM-24, Culture Plating TM-25, PCR	TM-26, Culture Plating10^2 CFU/gTM-27, Culture Plating10^1 CFU/gTM-24, Culture Plating10^1 CFU/gTM-25, PCR1 CFU/25 g	TM-26, Culture Plating10^2 CFU/g10^3 CFU/gTM-27, Culture Plating10^1 CFU/g10^2 CFU/gTM-24, Culture Plating10^1 CFU/g10^2 CFU/gTM-25, PCR1 CFU/25 gNA	TM-26, Culture Plating 10^2 CFU/g 10^3 CFU/g 1.5x10^5 CFU/g   TM-27, Culture Plating 10^1 CFU/g 10^2 CFU/g 1.5x10^4 CFU/g   TM-24, Culture Plating 10^1 CFU/g 10^2 CFU/g 1.5x10^4 CFU/g   TM-25, PCR 1 CFU/25 g NA NA	TM-26, Culture Plating10^2 CFU/g10^3 CFU/g1.5x10^5 CFU/gNone DetectedTM-27, Culture Plating10^1 CFU/g10^2 CFU/g1.5x10^4 CFU/gNone DetectedTM-24, Culture Plating10^1 CFU/g10^2 CFU/g1.5x10^4 CFU/gNone DetectedTM-25, PCR1 CFU/25 gNANAAbsent

Buanne Maillot

Brianne Maillot 11/8/2021 3:34:00 PM

Best Verter

APPROVED BY / DATE

Brett Hudson 11/8/2021 5:07:00 PM

PREPARED 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

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### Cinnamint 4000mg Tincture - 210070

**Official Compliance: Colorado** CERTIFICATE OF ANALYSIS

Prepared for:

**Elixinol LLC** 

Batch ID or Lot Number: <b>210070</b>	<sup>Test:</sup> <b>Mycotoxins</b>	Reported: <b>11/9/21</b>	Location: 10170 Church Ranch Way, Ste 40( Westminster, CO 80021
Matrix: Concentrate	Test ID: T000174243	Started: 11/8/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 11/03/2021 @ 02:16 PM	Sampler ID: N/A

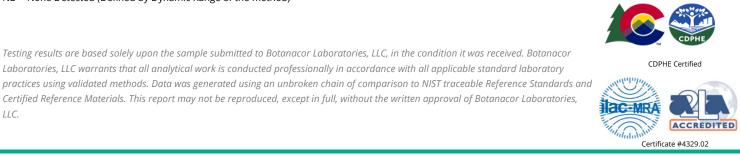
# **MYCOTOXIN** DETERMINATION

Compound	Dynam	ic Range (ppb)	Resi	ult (ppb)	Notes
Ochratoxin A	(	0.9 - 133.9		ND	N/A
Aflatoxin B1		1.5 - 34.2		ND	
Aflatoxin B2		1.2 - 33.8		ND	
Aflatoxin G1		1.2 - 33.5		ND	
Aflatoxin G2		1.1 - 33.3		ND	
Total Aflatoxins (B1, B2, G1	, and G2)			ND	
Myon Neuro	Ryan Weems 9-Nov-21 12:23 PM	Ger	vanthe Smoll	Sam Smith 9-Nov-21 12:29 PM	
PREPARED BY / DATE		APPROVE	D BY / DATE		

### Definitions

LLC.

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





# **Certificate of Analysis**

# Elixinol, LLC

10170 Church Ranch Westminster Colorado 80021 United States

ample Name:	Cinnamint 4000mg Tincture - 210070	Eurofins Sample:	11111618
roject ID	ELIXINOL-20211102-0035	Receipt Date	03-Nov-2021
O Number	cvd	<b>Receipt Condition</b>	Ambient temperature
ot Number	210070	Login Date	02-Nov-2021
ample Serving Size	1 mL	Date Started	06-Nov-2021
<b>J</b>		Sampled	Sample results apply as received
		Online Order	13484-16442C54
Analysis			Result
Enterobacteriaceae	Plate Count *		
Enterobacteriaceae	2		<10 CFU/g
Glyphosate and AM	PA		
Glyphosate			<100 ng/g
AMPA			<100 ng/g

#### Method References

#### Enterobacteriaceae Plate Count (EBPC)

Compendium of Methods for the Microbiological Examination of Foods: Enterobacteriaceae, Coliforms, and Escherichia coli as Quality and Safety Indicators, Chapter 8, 4th Edition, 2001.

#### Glyphosate and AMPA (GLY\_AMPA\_S)

Monsanto Company Method ME-1466-02, "High Throughput Assay for Glyphosate and AMPA in Raw Agricultural Commodities and Processed Fractions Using LC/MS/MS".

### Testing Location(s)

#### Food Integrity Innovation-Madison

Eurofins Food Chemistry Testing Madison, Inc. 6304 Ronald Reagan Ave Madison WI 53704 800-675-8375

### Released on Behalf of Eurofins by

Edward Ladwig - President Eurofins Food Chemistry Testing Madison



**Testing Location** 

2345 S 170th St New Berlin, WI 53151 USA

Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA

EML New Berlin

2918.01

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins. Measurement uncertainty for individual analyses can be obtained upon request.