

**CERTIFICATE OF ANALYSIS**

 Prepared for:  
**Elixinol LLC**

 10170 Church Ranch Way, Ste 400  
 Westminster, CO USA 80021

**Cinnamint Tincture 1000mg - Lot 220030**

Batch ID or Lot Number: <b>220030</b>	Test: <b>Potency</b>	Reported: <b>14Feb2022</b>	USDA License: N/A
Matrix: Solution	Test ID: T000191193	Started: 10Feb2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis (Colorado Panel)	Received: 08Feb2022	Status: N/A

Cannabinoids	LOD (mg/mL)	LOQ (mg/mL)	Result		Notes
			(mg/mL)	Result (mg/g)	
Cannabichromene (CBC)	0.052	0.169	0.621	0.66	
Cannabichromenic Acid (CBCA)	0.048	0.155	ND	ND	
Cannabidiol (CBD)	0.130	0.477	19.804	21.10	
Cannabidiolic Acid (CBDA)	0.134	0.489	0.641	0.68	
Cannabidivarin (CBDV)	0.031	0.113	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.056	0.204	ND	ND	
Cannabigerol (CBG)	0.030	0.096	0.342	0.36	
Cannabigerolic Acid (CBGA)	0.124	0.402	ND	ND	
Cannabinol (CBN)	0.039	0.125	0.048*	0.05*	
Cannabinolic Acid (CBNA)	0.085	0.274	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.148	0.479	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.134	0.435	0.768	0.82	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.119	0.385	ND	ND	
Tetrahydrocannabivarin (THCV)	0.027	0.087	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.105	0.340	ND	ND	
<b>Total Cannabinoids</b>			<b>22.224</b>	<b>23.68</b>	
Total Potential THC**			0.768	0.82	
Total Potential CBD**			20.366	21.70	

**Final Approval**


 Karen Winternheimer  
 11Feb2022  
 03:32:00 PM MST

PREPARED BY / DATE



 Daniel Weidensaul  
 11Feb2022  
 03:42:00 PM MST

APPROVED BY / DATE


<https://results.botanacor.com/api/v1/coas/uuid/c79097ed-2c88-4910-a82a-c063f157b2f4>

**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 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 17025:2005 Accredited A2LA.



Cert #4329.02

CDPHE Certified

[c79097ed2c884910a82ac063f157b2f4.2](https://results.botanacor.com/api/v1/coas/uuid/c79097ed-2c88-4910-a82a-c063f157b2f4)

# CERTIFICATE OF ANALYSIS

Prepared for:  
**Elixinol LLC**

10170 Church Ranch Way, Ste 400  
Westminster, CO USA 80021

## Cinnamint Tincture 1000mg - Lot 220030

Batch ID or Lot Number: <b>220030</b>	Test: <b>Residual Solvents</b>	Reported: <b>11Feb2022</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000191197	Started: 10Feb2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 08Feb2022	Status: N/A

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	103 - 2064	ND	
Butanes (Isobutane, n-Butane)	209 - 4181	ND	
Methanol	59 - 1179	ND	
Pentane	100 - 2007	ND	
Ethanol	89 - 1774	ND	
Acetone	97 - 1946	ND	
Isopropyl Alcohol	98 - 1965	ND	
Hexane	6 - 125	ND	
Ethyl Acetate	98 - 1953	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	98 - 1958	ND	
Toluene	18 - 356	ND	
Xylenes (m,p,o-Xylenes)	130 - 2596	ND	

## Final Approval



Karen Winternheimer  
11Feb2022  
02:06:00 PM MST

PREPARED BY / DATE



Ryan Weems  
11Feb2022  
02:09:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/96c419c6-f4bb-47ff-8d3f-be0285d14c45>

### Definitions

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Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Cert #4329.02

CDPHE Certified  
96c419c6f4bb47ff8d3fbe0285d14c45.1

# CERTIFICATE OF ANALYSIS

Prepared for:  
**Elixinol LLC**

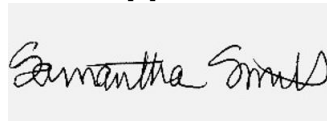
10170 Church Ranch Way, Ste 400  
Westminster, CO USA 80021

## Cinnamint Tincture 1000mg - Lot 220030

Batch ID or Lot Number: <b>220030</b>	Test: <b>Heavy Metals</b>	Reported: <b>09Feb2022</b>	USDA License: NA
Matrix: Unit Co	Test ID: T000191196	Started: 08Feb2022	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 08Feb2022	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.50	ND	
Cadmium	0.04 - 4.25	ND	
Mercury	0.04 - 4.42	ND	
Lead	0.04 - 4.38	ND	

## Final Approval



Sam Smith  
09Feb2022  
12:44:00 PM MST

PREPARED BY / DATE



Ryan Weems  
09Feb2022  
01:00:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/b5880b9f-010b-4678-9d1b-6b03d68c7e32>

### Definitions

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Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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CDPHE Certified

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**CERTIFICATE OF ANALYSIS**

 Prepared for:  
**Elixinol LLC**


 10170 Church Ranch Way, Ste 400  
 Westminster, CO USA 80021

**Cinnamint Tincture 1000mg - Lot 220030**

Batch ID or Lot Number: <b>220030</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>02Mar2022</b>	USDA License: N/A
Matrix: Finished Product	Test ID: T000191195	Started: 08Feb2022	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 08Feb2022	Status: N/A

**Microbial**
**Contaminants**

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	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>	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-Wright  
 11Feb2022  
 02:12:00 PM MST

PREPARED BY / DATE



 Brianne Maillot  
 11Feb2022  
 03:32:00 PM MST

APPROVED BY / DATE


<https://results.botanacor.com/api/v1/coas/uuid/ee248552-4ab4-4054-93a0-92816e54cef4>
**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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Prepared for:  
**Elixinol LLC**

10170 Church Ranch Way, Ste 400  
Westminster, CO USA 80021

## Cinnamint Tincture 1000mg - Lot 220030

Batch ID or Lot Number: <b>220030</b>	Test: <b>Pesticides</b>	Reported: <b>10Feb2022</b>	USDA License: NA
Matrix: Concentrate	Test ID: T000191194	Started: 09Feb2022	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 08Feb2022	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	302 - 2763	ND	Malathion	293 - 2690	ND
Acephate	42 - 2733	ND	Metalaxyl	44 - 2705	ND
Acetamiprid	42 - 2693	ND	Methiocarb	41 - 2733	ND
Azoxystrobin	47 - 2680	ND	Methomyl	42 - 2695	ND
Bifenazate	44 - 2663	ND	MGK 264 1	168 - 1644	ND
Boscalid	39 - 2746	ND	MGK 264 2	108 - 1144	ND
Carbaryl	41 - 2719	ND	Myclobutanil	36 - 2757	ND
Carbofuran	42 - 2734	ND	Naled	50 - 2795	ND
Chlorantraniliprole	42 - 2745	ND	Oxamyl	41 - 2727	ND
Chlorpyrifos	33 - 2777	ND	Pacllobutrazol	44 - 2713	ND
Clofentezine	282 - 2732	ND	Permethrin	266 - 2766	ND
Diazinon	288 - 2712	ND	Phosmet	45 - 2681	ND
Dichlorvos	286 - 2706	ND	Prophos	293 - 2723	ND
Dimethoate	43 - 2683	ND	Propoxur	41 - 2711	ND
E-Fenpyroximate	292 - 2723	ND	Pyridaben	290 - 2772	ND
Etofenprox	41 - 2761	ND	Spinosad A	33 - 2275	ND
Etoxazole	289 - 2736	ND	Spinosad D	47 - 504	ND
Fenoxycarb	41 - 2700	ND	Spiromesifen	279 - 2764	ND
Fipronil	35 - 2642	ND	Spirotetramat	309 - 2668	ND
Flonicamid	44 - 2704	ND	Spiroxamine 1	17 - 1193	ND
Fludioxonil	308 - 2733	ND	Spiroxamine 2	23 - 1578	ND
Hexythiazox	39 - 2747	ND	Tebuconazole	283 - 2693	ND
Imazalil	274 - 2753	ND	Thiacloprid	42 - 2693	ND
Imidacloprid	42 - 2709	ND	Thiamethoxam	40 - 2690	ND
Kresoxim-methyl	47 - 2726	ND	Trifloxystrobin	43 - 2731	ND

## Final Approval



Daniel Weidensaul  
10Feb2022  
02:48:00 PM MST

PREPARED BY / DATE



Sam Smith  
10Feb2022  
02:55:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/6c7d8fb0-4d28-4533-8d1f-6e1681291765>

### 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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Cert #4329.02  
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Prepared for:

**Cinnamint Tincture 1000mg - Lot 220030****Elixinol LLC**

Batch ID or Lot Number: <b>220030</b>	Test: <b>Mycotoxins</b>	Reported: <b>2/12/22</b>	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
Matrix: Concentrate	Test ID: T000191199	Started: 2/10/22	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 02/08/2022 @ 09:33 AM	Sampler ID: N/A

**MYCOTOXIN DETERMINATION**

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.3 - 140.5	ND	N/A
Aflatoxin B1	1 - 35.7	ND	
Aflatoxin B2	1.1 - 35.4	ND	
Aflatoxin G1	1.1 - 35.5	ND	
Aflatoxin G2	1.3 - 35	ND	
<b>Total Aflatoxins (B1, B2, G1, and G2)</b>		ND	

  
PREPARED BY / DATE  
Ryan Weems  
12-Feb-22  
9:00 AM  
APPROVED BY / DATE  
Sam Smith  
12-Feb-22  
9:14 AM**Definitions**

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

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CDPHE Certified



Certificate #4329.02

## Certificate of Analysis

### Elixinol, LLC

10170 Church Ranch  
Westminster Colorado 80021 United States

<b>Sample Name:</b>	<b>Cinnamint Tincture 1000mg - 220030</b>	<b>Eurofins Sample:</b>	<b>11408951</b>
<b>Project ID</b>	ELIXINOL-20220203-0003	<b>Receipt Date</b>	09-Feb-2022
<b>PO Number</b>	cvd	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	220030	<b>Login Date</b>	03-Feb-2022
<b>Sample Serving Size</b>	1 mL	<b>Date Started</b>	09-Feb-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Online Order</b>	13484-16BEB3F9

#### Analysis

#### Result

##### Enterobacteriaceae Plate Count \*

Enterobacteriaceae

<10 CFU/g

##### Glyphosate and AMPA

Glyphosate

<100 ng/g

AMPA

<100 ng/g

#### Method References

#### Testing Location

##### Enterobacteriaceae Plate Count (EBPC)

##### EML New Berlin

2345 S 170th St New Berlin, WI 53151 USA

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\_AMPAS)

##### Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

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)

#### Released on Behalf of Eurofins by

##### Food Integrity Innovation-Madison

##### Edward Ladwig - President Eurofins Food Chemistry Testing Madison

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



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.

\* This analysis or component is not ISO accredited.

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