

**CERTIFICATE OF ANALYSIS**

 Prepared for:  
**Elixinol LLC**

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

**500mg Cinnamint - 220119**

Batch ID or Lot Number: <b>220119</b>	Test: <b>Potency</b>	Reported: <b>27Jun2022</b>	USDA License: N/A
Matrix: Solution	Test ID: T000211372	Started: 23Jun2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 22Jun2022	Status: Active

**Cannabinoids**

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.071	0.222	0.514	0.54	Density = 0.94458g/mL
Cannabichromenic Acid (CBCA)	0.065	0.203	ND	ND	
Cannabidiol (CBD)	0.183	0.579	19.026	20.14	
Cannabidiolic Acid (CBDA)	0.188	0.594	ND	ND	
Cannabidivarin (CBDV)	0.043	0.137	0.196	0.21	
Cannabidivarinic Acid (CBDVA)	0.078	0.248	ND	ND	
Cannabigerol (CBG)	0.040	0.126	0.232	0.25	
Cannabigerolic Acid (CBGA)	0.169	0.526	ND	ND	
Cannabinol (CBN)	0.053	0.164	<LOQ	0.06	
Cannabinolic Acid (CBNA)	0.115	0.359	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.201	0.627	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.183	0.569	0.985	1.04	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.162	0.505	ND	ND	
Tetrahydrocannabivarin (THCV)	0.037	0.115	<LOQ	0.07	
Tetrahydrocannabivarinic Acid (THCVA)	0.143	0.445	ND	ND	
<b>Total Cannabinoids</b>			<b>21.075</b>	<b>22.31</b>	
Total Potential THC			0.985	1.04	
Total Potential CBD			19.026	20.14	

**Final Approval**


 Daniel Weidensaul  
 28Jun2022  
 06:09:00 PM MDT



 Jacob Miller  
 28Jun2022  
 06:11:00 PM MDT


PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/d0ca579e-f27f-4656-8952-34b66265c8b3>
**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)).

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Cert #4329.02

CDPHE Certified

[d0ca579ef27f4656895234b66265c8b3.1](https://results.botanacor.com/api/v1/coas/uuid/d0ca579ef27f4656895234b66265c8b3)

# CERTIFICATE OF ANALYSIS

Prepared for:  
**Elixinol LLC**

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

## 500mg Cinnamint - 220119

Batch ID or Lot Number: <b>220119</b>	Test: <b>Residual Solvents</b>	Reported: <b>23Jun2022</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000211376	Started: 23Jun2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 22Jun2022	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	101 - 2016	ND	
Butanes (Isobutane, n-Butane)	157 - 3146	ND	
Methanol	59 - 1173	ND	
Pentane	86 - 1725	ND	
Ethanol	93 - 1854	ND	
Acetone	97 - 1933	ND	
Isopropyl Alcohol	98 - 1963	ND	
Hexane	6 - 120	ND	
Ethyl Acetate	99 - 1971	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	100 - 2008	ND	
Toluene	18 - 365	ND	
Xylenes (m,p,o-Xylenes)	134 - 2684	ND	

## Final Approval



Jacob Miller  
23Jun2022  
04:24:00 PM MDT

PREPARED BY / DATE



Sam Smith  
23Jun2022  
04:29:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/1b709ce6-06ba-4c0e-95d0-97601b792a2c>

### 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

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# CERTIFICATE OF ANALYSIS

Prepared for:  
**Elixinol LLC**

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

## 500mg Cinnamint - 220119

Batch ID or Lot Number: <b>220119</b>	Test: <b>Heavy Metals</b>	Reported: <b>28Jun2022</b>	USDA License: NA
Matrix: Unit Co	Test ID: T000211375	Started: 27Jun2022	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 22Jun2022	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.08 - 7.90	ND	
Cadmium	0.08 - 7.87	ND	
Mercury	0.08 - 7.80	ND	
Lead	0.08 - 7.99	ND	

## Final Approval



Daniel Weidensaul  
29Jun2022  
08:05:00 PM MDT

PREPARED BY / DATE



Courtney Richards  
29Jun2022  
09:10:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/72370a67-c607-4b0d-a898-81592c753099>

### Definitions

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

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**CERTIFICATE OF ANALYSIS**

 Prepared for:  
**Elixinol LLC**

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

**500mg Cinnamint - 220119**

Batch ID or Lot Number: <b>220119</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>27Jun2022</b>	USDA License: N/A
Matrix: Finished Product	Test ID: T000211374	Started: 22Jun2022	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 22Jun2022	Status: Active

**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**


 Carly Bader  
 25Jun2022  
 12:48:00 PM MDT



 Eden Thompson-Wright  
 27Jun2022  
 09:17:00 AM MDT


PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/150d44f9-8d01-4075-a2a4-3d68ce2c7e9f>
**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

## 500mg Cinnamint - 220119

Batch ID or Lot Number: <b>220119</b>	Test: <b>Pesticides</b>	Reported: <b>24Jun2022</b>	USDA License: NA
Matrix: Concentrate	Test ID: T000211373	Started: 23Jun2022	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 22Jun2022	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	316 - 2838	ND	Malathion	296 - 2707	ND
Acephate	40 - 2785	ND	Metalaxyl	43 - 2741	ND
Acetamiprid	39 - 2725	ND	Methiocarb	43 - 2693	ND
Azoxystrobin	42 - 2680	ND	Methomyl	39 - 2749	ND
Bifenazate	40 - 2671	ND	MGK 264 1	158 - 1602	ND
Boscalid	40 - 2580	ND	MGK 264 2	105 - 1130	ND
Carbaryl	40 - 2712	ND	Myclobutanil	43 - 2757	ND
Carbofuran	43 - 2700	ND	Naled	46 - 2722	ND
Chlorantraniliprole	45 - 2668	ND	Oxamyl	38 - 2759	ND
Chlorpyrifos	41 - 2808	ND	Pacllobutrazol	42 - 2727	ND
Clofentezine	283 - 2734	ND	Permethrin	286 - 2773	ND
Diazinon	286 - 2706	ND	Phosmet	44 - 2696	ND
Dichlorvos	278 - 2729	ND	Prophos	302 - 2707	ND
Dimethoate	39 - 2698	ND	Propoxur	42 - 2712	ND
E-Fenpyroximate	289 - 2691	ND	Pyridaben	288 - 2768	ND
Etofenprox	41 - 2747	ND	Spinosad A	35 - 2240	ND
Etoxazole	293 - 2728	ND	Spinosad D	50 - 497	ND
Fenoxycarb	40 - 2705	ND	Spiromesifen	271 - 2724	ND
Fipronil	39 - 2734	ND	Spirotetramat	295 - 2642	ND
Fonicamid	39 - 2675	ND	Spiroxamine 1	19 - 1166	ND
Fludioxonil	297 - 2747	ND	Spiroxamine 2	25 - 1538	ND
Hexythiazox	41 - 2704	ND	Tebuconazole	255 - 2678	ND
Imazalil	277 - 2769	ND	Thiacloprid	42 - 2677	ND
Imidacloprid	41 - 2656	ND	Thiamethoxam	41 - 2688	ND
Kresoxim-methyl	46 - 2712	ND	Trifloxystrobin	44 - 2716	ND

## Final Approval

  
 Sam Smith  
 24Jun2022  
 11:54:00 AM MDT

PREPARED BY / DATE

  
 Daniel Weidensaul  
 24Jun2022  
 11:56:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/13325956-38bc-4ed9-9ba4-a31f957d0012>

### 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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## 500mg Cinnamint - 220119

<b>Batch ID:</b>	220119	<b>Test ID:</b>	T000211378
<b>Type:</b>	Concentrate	<b>Submitted:</b>	06/22/2022 @ 09:12 AM
<b>Test:</b>	Mycotoxins	<b>Started:</b>	4/6/2021
<b>Method:</b>	TM18 (UHPLC-QQQ LC MS/MS)	<b>Reported:</b>	6/23/2022

## MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Specification (ppb)	Status
Ochratoxin A	4.9 - 131.9	ND	20	Pass
Aflatoxin B1	1 - 32.9	ND	N/A	N/A
Aflatoxin B2	1.1 - 32.9	ND	N/A	N/A
Aflatoxin G1	1 - 33.3	ND	N/A	N/A
Aflatoxin G2	1 - 33.5	ND	N/A	N/A
Total Aflatoxins (B1, B2, G1, and G2)		ND	20	Pass

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

## NOTES

N/A

## FINAL APPROVAL

 PREPARED BY / DATE	Sam Smith 23-Jun-2022 4:29 PM	 APPROVED BY / DATE	Jacob Miller 23-Jun-2022 4:36 PM	Pass FINAL STATUS
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## Certificate of Analysis

### Elixinol, LLC

10170 Church Ranch  
Westminster Colorado 80021

<b>Sample Name:</b>	<b>500mg Cinnamint - 220119</b>	<b>Eurofins Sample:</b>	<b>11892070</b>
<b>Project ID</b>	ELIXINOL-20220624-0023	<b>Receipt Date</b>	24-Jun-2022
<b>PO Number</b>	na	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	220119	<b>Login Date</b>	24-Jun-2022
<b>Sample Serving Size</b>	1 mL	<b>Date Started</b>	28-Jun-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	3
		<b>Online Order</b>	13484-177491F3

Analysis	Result
<b>Enterobacteriaceae Plate Count *</b>	
Enterobacteriaceae	<10 CFU/g
<b>Glyphosate and AMPA</b>	
Glyphosate	<100 ng/g
AMPA	<100 ng/g

Method References	Testing Location
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<b>Enterobacteriaceae Plate Count (EBPC)</b>	<b>EML New Berlin</b> 2345 S 170th St New Berlin, WI 53151 USA
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Compendium of Methods for the Microbiological Examination of Foods: Enterobacteriaceae, Coliforms, and Escherichia coli as Quality and Safety Indicators, Chapter 8, 4th Edition, 2001.

<b>Glyphosate and AMPA (GLY_AMPAS)</b>	<b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA
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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
---------------------	-----------------------------------

<b>Food Integrity Innovation-Madison</b>	<b>Edward Ladwig - President Eurofins Food Chemistry Testing Madison</b>
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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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