

CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

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

2000mg Cinnamint Tincture - 220095

Batch ID or Lot Number: 220095	Test: Potency	Reported: 25Apr2022	USDA License: N/A
Matrix: Solution	Test ID: T000203771	Started: 22Apr2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 20Apr2022	Status: N/A

Cannabinoids

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.082	0.194	0.888	0.94	Density = 0.948138g/mL
Cannabichromenic Acid (CBCA)	0.075	0.177	ND	ND	
Cannabidiol (CBD)	0.276	0.519	36.144	38.12	
Cannabidiolic Acid (CBDA)	0.283	0.532	ND	ND	
Cannabidivarin (CBDV)	0.065	0.123	0.312	0.33	
Cannabidivarinic Acid (CBDVA)	0.118	0.222	ND	ND	
Cannabigerol (CBG)	0.047	0.110	0.820	0.86	
Cannabigerolic Acid (CBGA)	0.194	0.459	ND	ND	
Cannabinol (CBN)	0.061	0.143	0.171	0.18	
Cannabinolic Acid (CBNA)	0.133	0.313	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.232	0.547	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.210	0.497	2.240	2.36	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.186	0.440	ND	ND	
Tetrahydrocannabivarin (THCV)	0.042	0.100	0.116	0.12	
Tetrahydrocannabivarinic Acid (THCVA)	0.164	0.389	ND	ND	
Total Cannabinoids			40.691	42.92	
Total Potential THC			2.240	2.36	
Total Potential CBD			36.144	38.12	

Final Approval



Hannah Wright
25Apr2022
05:20:00 PM MDT

PREPARED BY / DATE



Daniel Weidensaul
25Apr2022
05:22:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/87f3d85c-0f80-456e-bea5-838fc0c4e13d>

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

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CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

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

2000mg Cinnamint Tincture - 220095

Batch ID or Lot Number: 220095	Test: Residual Solvents	Reported: 22Apr2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000203775	Started: 21Apr2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 20Apr2022	Status: N/A

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	104 - 2084	ND	
Butanes (Isobutane, n-Butane)	213 - 4256	ND	
Methanol	67 - 1343	ND	
Pentane	108 - 2156	ND	
Ethanol	108 - 2156	ND	
Acetone	106 - 2115	ND	
Isopropyl Alcohol	110 - 2198	ND	
Hexane	7 - 131	ND	
Ethyl Acetate	108 - 2164	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	104 - 2074	ND	
Toluene	19 - 387	ND	
Xylenes (m,p,o-Xylenes)	139 - 2780	ND	

Final Approval



Hannah Wright
22Apr2022
12:47:00 PM MDT

PREPARED BY / DATE



Sam Smith
22Apr2022
12:52:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/f6f36760-63eb-4c52-89ff-a0556f38481e>

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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CDPHE Certified

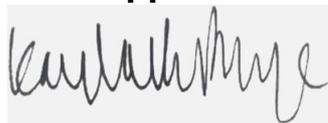
f6f3676063eb4c5289ffa0556f38481e.1

CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC10170 Church Ranch Way, Ste 400
Westminster, CO USA 80021**2000mg Cinnamint Tincture - 220095**

Batch ID or Lot Number: 220095	Test: Heavy Metals	Reported: 25Apr2022	USDA License: NA
Matrix: Unit Co	Test ID: T000203774	Started: 22Apr2022	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 20Apr2022	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.35	ND	
Cadmium	0.04 - 4.30	ND	
Mercury	0.04 - 4.35	ND	
Lead	0.04 - 4.17	ND	

Final ApprovalKayla Phye
25Apr2022
10:21:00 AM MDT

PREPARED BY / DATE

Ryan Weems
25Apr2022
10:24:00 AM MDT

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/abb29683-bc4c-4bf1-98e6-84f38e034fe9>**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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CDPHE Certified

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CERTIFICATE OF ANALYSIS

 Prepared for:
Elixinol LLC

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

2000mg Cinnamint Tincture - 220095

Batch ID or Lot Number: 220095	Test: Microbial Contaminants	Reported: 25Apr2022	USDA License: N/A
Matrix: Finished Product	Test ID: T000203773	Started: 21Apr2022	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 20Apr2022	Status: N/A

Microbial Contaminants

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	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


 Jackson Osaghae-Nosa
 24Apr2022
 01:16:00 PM MDT

PREPARED BY / DATE



 Eden Thompson-Wright
 25Apr2022
 09:59:00 AM MDT

APPROVED BY / DATE


<https://results.botanacor.com/api/v1/coas/uuid/be6abebe-2576-4459-a29c-02a88b60bf42>
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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Prepared for:
Elixinol LLC

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

2000mg Cinnamint Tincture - 220095

Batch ID or Lot Number: 220095	Test: Pesticides	Reported: 22Apr2022	USDA License: NA
Matrix: Concentrate	Test ID: T000203772	Started: 21Apr2022	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 20Apr2022	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	301 - 2759	ND	Malathion	281 - 2741	ND
Acephate	48 - 2710	ND	Metalaxyl	42 - 2743	ND
Acetamiprid	42 - 2725	ND	Methiocarb	46 - 2771	ND
Azoxystrobin	45 - 2725	ND	Methomyl	44 - 2742	ND
Bifenazate	47 - 2746	ND	MGK 264 1	162 - 1587	ND
Boscalid	54 - 2762	ND	MGK 264 2	109 - 1103	ND
Carbaryl	43 - 2719	ND	Myclobutanil	42 - 2765	ND
Carbofuran	41 - 2742	ND	Naled	51 - 2745	ND
Chlorantraniliprole	60 - 2728	ND	Oxamyl	43 - 2708	ND
Chlorpyrifos	52 - 2783	ND	Pacllobutrazol	44 - 2743	ND
Clofentezine	275 - 2766	ND	Permethrin	290 - 2737	ND
Diazinon	292 - 2743	ND	Phosmet	41 - 2736	ND
Dichlorvos	264 - 2760	ND	Prophos	302 - 2758	ND
Dimethoate	43 - 2693	ND	Propoxur	43 - 2738	ND
E-Fenpyroximate	291 - 2750	ND	Pyridaben	297 - 2754	ND
Etofenprox	42 - 2722	ND	Spinosad A	35 - 2242	ND
Etoxazole	301 - 2705	ND	Spinosad D	50 - 496	ND
Fenoxycarb	47 - 2765	ND	Spiromesifen	275 - 2751	ND
Fipronil	42 - 2723	ND	Spirotetramat	268 - 2761	ND
Flonicamid	35 - 2706	ND	Spiroxamine 1	20 - 1178	ND
Fludioxonil	282 - 2786	ND	Spiroxamine 2	28 - 1567	ND
Hexythiazox	48 - 2768	ND	Tebuconazole	294 - 2697	ND
Imazalil	279 - 2703	ND	Thiacloprid	44 - 2688	ND
Imidacloprid	42 - 2731	ND	Thiamethoxam	44 - 2719	ND
Kresoxim-methyl	45 - 2782	ND	Trifloxystrobin	45 - 2756	ND

Final Approval



Ryan Weems
22Apr2022
02:18:00 PM MDT

PREPARED BY / DATE



Daniel Weidensaul
22Apr2022
02:27:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/e15b3d9d-5466-496a-81bd-ed435a0f5a4d>

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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CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

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

2000mg Cinnamint Tincture - 220095

Batch ID or Lot Number: 220095	Test: Mycotoxins	Reported: 25Apr2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000203777	Started: 22Apr2022	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 20Apr2022	Status: N/A

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.40 - 135.24	ND	N/A
Aflatoxin B1	1.14 - 32.07	ND	
Aflatoxin B2	1.11 - 34.42	ND	
Aflatoxin G1	1.11 - 34.45	ND	
Aflatoxin G2	1.17 - 34.03	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Ryan Weems
25Apr2022
11:40:00 AM MDT

PREPARED BY / DATE



Sam Smith
25Apr2022
11:48:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/0a8f5827-7cf3-4366-a2a3-dab237ae5da0>

Definitions

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Cert #4329.02

CDPHE Certified

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Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021

Sample Name:	2000mg Cinnamint Tincture - 220095	Eurofins Sample:	11669455
Project ID	ELIXINOL-20220419-0015	Receipt Date	22-Apr-2022
PO Number	NA	Receipt Condition	Ambient temperature
Lot Number	220095	Login Date	19-Apr-2022
Sample Serving Size	1 mL	Date Started	28-Apr-2022
		Sampled	Sample results apply as received
		Online Order	13484-1721AD6E

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.

Printed: 03-May-2022 6:12 pm

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