

Prepared for:

Elixinol LLC

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

Cinnamint 4000mg Tincture - 220116

Batch ID or Lot Number: 220116	Test: Potency	Reported: 23Jun2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Solution	T000210951	22Jun2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	17Jun2022	Active

			Result		
Cannabinoids	LOD (mg/mL)	LOQ (mg/mL)	(mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.176	0.519	0.595	0.63	Density =
Cannabichromenic Acid (CBCA)	0.161	0.474	ND	ND	0.939644g/mL
Cannabidiol (CBD)	0.430	1.326	39.696	42.25	
Cannabidiolic Acid (CBDA)	0.441	1.360	ND	ND	
Cannabidivarin (CBDV)	0.102	0.314	0.370	0.39	
Cannabidivarinic Acid (CBDVA)	0.184	0.567	ND	ND	
Cannabigerol (CBG)	0.100	0.294	0.327	0.35	
Cannabigerolic Acid (CBGA)	0.417	1.231	ND	ND	
Cannabinol (CBN)	0.130	0.384	ND	ND	
Cannabinolic Acid (CBNA)	0.285	0.840	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.497	1.466	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.452	1.332	1.199	1.28	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.400	1.180	ND	ND	
Tetrahydrocannabivarin (THCV)	0.091	0.268	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.353	1.041	ND	ND	
Total Cannabinoids			42.187	44.90	
Total Potential THC			1.199	1.28	
Total Potential CBD			39.696	42.25	

Final Approval

PREPARED BY / DATE

Danuel Westersand

Daniel Weidensaul 23Jun2022 05:02:00 PM MDT L Winternheimer

Karen Winternheimer 23Jun2022 05:07:00 PM MDT



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/ec5c8313-8425-441c-80de-5123a58bb15b

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 17025:2017 Accredited by A2LA.











Cert #4329.02

CDPHE Certified ec5c83138425441c80de5123a58bb15b.1



Prepared for:

Elixinol LLC

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

Cinnamint 4000mg Tincture - 220116

Batch ID or Lot Number: 220116	Test: Residual Solvents	Reported: 21Jun2022	USDA License: N/A	
Matrix: Concentrate	Test ID: T000210955	Started: 21Jun2022	Sampler ID: N/A	
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 17Jun2022	Status: Active	

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	81 - 1620	ND	
Butanes (Isobutane, n-Butane)	124 - 2472	ND	
Methanol	49 - 977	ND	
Pentane	70 - 1396	ND	
Ethanol	72 - 1441	ND	
Acetone	79 - 1585	ND	
Isopropyl Alcohol	86 - 1726	ND	
Hexane	5 - 96	ND	
Ethyl Acetate	81 - 1618	ND	
Benzene	0.2 - 3.4	ND	
Heptanes	79 - 1590	ND	
Toluene	15 - 292	ND	
Xylenes (m,p,o-Xylenes)	107 - 2146	ND	

Final Approval

PREPARED BY / DATE

Jacob Miller 21Jun2022 03:50:00 PM MDT Samantha Smoth

Sam Smith 21Jun2022 03:56:00 PM MDT



APPROVED BY / DATE

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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 5b2fe596de3b4c65801029ade9e2f31d.1



Prepared for:

Elixinol LLC

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

Cinnamint 4000mg Tincture - 220116

Batch ID or Lot Number: 220116	Test: Heavy Metals	Reported: 23Jun2022	USDA License: NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000210954	23Jun2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	17Jun2022	NA

Dynamic Range (ppm)	Result (ppm)	Notes	
0.08 - 7.89	ND		
0.08 - 7.93	ND		
0.08 - 7.81	ND		
0.08 - 8.18	ND		
	0.08 - 7.89 0.08 - 7.93 0.08 - 7.81	0.08 - 7.89 ND 0.08 - 7.93 ND 0.08 - 7.81 ND	0.08 - 7.89 ND 0.08 - 7.93 ND 0.08 - 7.81 ND

Final Approval

PREPARED BY / DATE

Sam Smith 23Jun2022 05:02:00 PM MDT

APPROVED BY / DATE

Daniel Weidensaul 23Jun2022 05:04:00 PM MDT

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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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Prepared for:

Elixinol LLC

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

Cinnamint 4000mg Tincture - 220116

Batch ID or Lot Number: 220116	Test: Microbial Contaminants	Reported: 21Jun2022	USDA License: N/A	
Matrix:	Test ID:	Started:	Sampler ID:	
Finished Product	T000210953	17Jun2022	N/A	
	Method(s):	Received:	Status:	
	TM25 (qPCR) TM24, TM26, TM27	17Jun2022	Active	
	(Culture Plating): Microbial (Colorac	do		
	Panel)			

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

Eden Thompson

Eden Thompson-Wright 21Jun2022 04:04:00 PM MDT

Carly Baden

Carly Bader 21Jun2022 05:11:00 PM MDT



PREPARED BY / DATE

APPROVED BY / DATE

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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

Cinnamint 4000mg Tincture - 220116

Batch ID or Lot Number: 220116	Test: Pesticides	Reported: 22Jun2022	USDA License: NA	
Matrix: Concentrate	Test ID: T000210952	Started: 21Jun2022	Sampler ID: NA	
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 17Jun2022	Status: NA	

Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	263 - 2783	ND
Acephate	40 - 2860	ND
Acetamiprid	39 - 2791	ND
Azoxystrobin	41 - 2699	ND
Bifenazate	46 - 2691	ND
Boscalid	25 - 2752	ND
Carbaryl	39 - 2732	ND
Carbofuran	44 - 2720	ND
Chlorantraniliprole	46 - 2697	ND
Chlorpyrifos	36 - 2758	ND
Clofentezine	287 - 2699	ND
Diazinon	289 - 2732	ND
Dichlorvos	263 - 2840	ND
Dimethoate	38 - 2795	ND
E-Fenpyroximate	308 - 2698	ND
Etofenprox	35 - 2760	ND
Etoxazole	293 - 2712	ND
Fenoxycarb	38 - 2695	ND
Fipronil	22 - 2770	ND
Flonicamid	54 - 2783	ND
Fludioxonil	278 - 2740	ND
Hexythiazox	34 - 2718	ND
Imazalil	277 - 2721	ND
Imidacloprid	38 - 2792	ND
Kresoxim-methyl	47 - 2758	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	299 - 2719	ND
Metalaxyl	46 - 2726	ND
Methiocarb	36 - 2754	ND
Methomyl	39 - 2825	ND
MGK 264 1	165 - 1658	ND
MGK 264 2	107 - 1142	ND
Myclobutanil	22 - 2768	ND
Naled	45 - 2734	ND
Oxamyl	38 - 2825	ND
Paclobutrazol	62 - 2612	ND
Permethrin	253 - 2786	ND
Phosmet	49 - 2701	ND
Prophos	254 - 2776	ND
Propoxur	41 - 2705	ND
Pyridaben	287 - 2730	ND
Spinosad A	33 - 2228	ND
Spinosad D	48 - 491	ND
Spiromesifen	244 - 2771	ND
Spirotetramat	303 - 2712	ND
Spiroxamine 1	15 - 1177	ND
Spiroxamine 2	20 - 1558	ND
Tebuconazole	365 - 2621	ND
Thiacloprid	41 - 2816	ND
Thiamethoxam	39 - 2797	ND
Trifloxystrobin	43 - 2729	ND

Final Approval

Somantha Smull

Sam Smith 22Jun2022 04:52:00 PM MDT

APPROVED BY / DATE

Karen Winternheimer 22Jun2022 04:54:00 PM MDT



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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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prepared for: Elixinol LLC

10170 Church Ranch Way, Ste 400 Westminster, CO 80021

Cinnamint 4000mg Tincture - 220116

Batch ID:	220116	Test ID:	T000210957
Туре:	Concentrate	Submitted:	06/17/2022 @ 10:46 AM
Test:	Mycotoxins	Started:	4/6/2021
Method:	TM18 (UHPLC-QQQ LC MS/MS)	Reported:	6/23/2022

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Specification (ppb)	Status
Ochratoxin A	5.1 - 136.1	ND	20	Pass
Aflatoxin B1	1.1 - 34	ND	N/A	N/A
Aflatoxin B2	1.2 - 33.9	ND	N/A	N/A
Aflatoxin G1	1.1 - 34.4	ND	N/A	N/A
Aflatoxin G2	1.1 - 34.5	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

Samantha Smol

Sam Smith 23-lun-2022 4:29 PM J his

lacob Miller 23-lun-2022 4:36 PM

Pass

PREPARED BY / DATE

APPROVED BY / DATE

FINAL STATUS

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.

Report Number: 3719471-0

Report Date: 28-Jun-2022

Report Status: Final

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch Westminster Colorado 80021

Sample Name:	Cinnamint 4000mg Tincture - 220116	Eurofins Sample:	11875923
Project ID	ELIXINOL-20220621-0022	Receipt Date	21-Jun-2022
PO Number	NA	Receipt Condition	Ambient temperature
Lot Number	220116	Login Date	21-Jun-2022
Sample Serving Size	1 mL	Date Started	23-Jun-2022
J		Sampled	Sample results apply as received
		Number Composited	2
		Online Order	13484-176E1334

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_AMPA_S)

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





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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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