

CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

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

Cinnamint Tincture 1000mg - 220140

Batch ID or Lot Number: 220140	Test: Potency	Reported: 15Sep2022	USDA License: N/A
Matrix: Solution	Test ID: T000221031	Started: 14Sep2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 12Sep2022	Status: Active

Cannabinoids

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.062	0.210	0.699	0.74	Density = 0.94448g/mL
Cannabichromenic Acid (CBCA)	0.056	0.192	ND	ND	
Cannabidiol (CBD)	0.179	0.560	17.925	18.98	
Cannabidiolic Acid (CBDA)	0.183	0.575	ND	ND	
Cannabidivarin (CBDV)	0.042	0.133	<LOQ	0.08	
Cannabidivarinic Acid (CBDVA)	0.076	0.240	ND	ND	
Cannabigerol (CBG)	0.035	0.119	0.239	0.25	
Cannabigerolic Acid (CBGA)	0.147	0.499	ND	ND	
Cannabinol (CBN)	0.046	0.156	ND	ND	
Cannabinolic Acid (CBNA)	0.100	0.340	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.175	0.594	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.159	0.540	0.665	0.70	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.141	0.478	ND	ND	
Tetrahydrocannabivarin (THCV)	0.032	0.108	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.124	0.422	ND	ND	
Total Cannabinoids			19.600	20.75	
Total Potential THC			0.665	0.70	
Total Potential CBD			17.925	18.98	

Final Approval



Daniel Weidensaul
15Sep2022
02:38:00 PM MDT



Jacob Miller
15Sep2022
02:55:00 PM MDT



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/6a354ff1-ca70-4d0d-a186-bdf3d6effa35>

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 SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.



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

Cinnamint Tincture 1000mg - 220140

Batch ID or Lot Number: 220140	Test: Residual Solvents	Reported: 14Sep2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000221035	Started: 14Sep2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 12Sep2022	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	82 - 1647	ND	
Butanes (Isobutane, n-Butane)	172 - 3445	ND	
Methanol	56 - 1113	ND	
Pentane	90 - 1795	ND	
Ethanol	90 - 1796	ND	
Acetone	92 - 1833	ND	
Isopropyl Alcohol	99 - 1974	ND	
Hexane	6 - 112	ND	
Ethyl Acetate	94 - 1877	ND	
Benzene	0.2 - 3.6	ND	
Heptanes	93 - 1859	ND	
Toluene	17 - 335	ND	
Xylenes (m,p,o-Xylenes)	126 - 2515	ND	

Final Approval



Daniel Weidensaul
14Sep2022
04:31:00 PM MDT

PREPARED BY / DATE



Jacob Miller
14Sep2022
04:35:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/7950af80-fedb-4202-8e66-da30cb1a8b99>

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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CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

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

Cinnamint Tincture 1000mg - 220140

Batch ID or Lot Number: 220140	Test: Heavy Metals	Reported: 14Sep2022	USDA License: NA
Matrix: Unit Co	Test ID: T000221034	Started: 13Sep2022	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 12Sep2022	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.38	ND	
Cadmium	0.04 - 4.49	ND	
Mercury	0.04 - 4.37	ND	
Lead	0.04 - 4.15	ND	

Final Approval



Daniel Weidensaul
14Sep2022
01:31:00 PM MDT

PREPARED BY / DATE



Sam Smith
14Sep2022
01:33:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/271f0f62-40bb-4b2a-a961-95d3b940d304>

Definitions

ND = None Detected (defined by dynamic range of the method)
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CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

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

Cinnamint Tincture 1000mg - 220140

Batch ID or Lot Number: 220140	Test: Microbial Contaminants	Reported: 16Sep2022	USDA License: N/A
Matrix: Finished Product	Test ID: T000221033	Started: 13Sep2022	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 12Sep2022	Status: Active

Microbial Contaminants

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



Brianne Maillot
16Sep2022
02:10:00 PM MDT



Brett Hudson
16Sep2022
05:08:00 PM MDT



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APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/3a314b71-afa0-4f5c-8bf2-7a7104d9242c>

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 Tincture 1000mg - 220140

Batch ID or Lot Number: 220140	Test: Pesticides	Reported: 15Sep2022	USDA License: NA
Matrix: Concentrate	Test ID: T000221032	Started: 14Sep2022	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 12Sep2022	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	357 - 2682	ND	Malathion	283 - 2721	ND
Acephate	39 - 2791	ND	Metalaxyl	42 - 2729	ND
Acetamiprid	42 - 2744	ND	Methiocarb	43 - 2712	ND
Azoxystrobin	44 - 2718	ND	Methomyl	40 - 2759	ND
Bifenazate	40 - 2687	ND	MGK 264 1	153 - 1614	ND
Boscalid	43 - 2718	ND	MGK 264 2	109 - 1093	ND
Carbaryl	40 - 2738	ND	Myclobutanil	36 - 2640	ND
Carbofuran	44 - 2740	ND	Naled	47 - 2745	ND
Chlorantraniliprole	37 - 2717	ND	Oxamyl	43 - 2683	ND
Chlorpyrifos	35 - 2776	ND	Pacllobutrazol	40 - 2743	ND
Clofentezine	272 - 2756	ND	Permethrin	90 - 2694	ND
Diazinon	291 - 2753	ND	Phosmet	40 - 2731	ND
Dichlorvos	286 - 2808	ND	Prophos	286 - 2685	ND
Dimethoate	42 - 2740	ND	Propoxur	41 - 2721	ND
E-Fenpyroximate	289 - 2763	ND	Pyridaben	298 - 2759	ND
Etofenprox	42 - 2761	ND	Spinosad A	33 - 2256	ND
Etoxazole	290 - 2737	ND	Spinosad D	48 - 503	ND
Fenoxycarb	44 - 2729	ND	Spiromesifen	276 - 2765	ND
Fipronil	28 - 2780	ND	Spirotetramat	287 - 2723	ND
Flonicamid	53 - 2812	ND	Spiroxamine 1	17 - 1167	ND
Fludioxonil	273 - 2732	ND	Spiroxamine 2	21 - 1526	ND
Hexythiazox	38 - 2754	ND	Tebuconazole	287 - 2742	ND
Imazalil	278 - 2739	ND	Thiacloprid	44 - 2757	ND
Imidacloprid	35 - 2799	ND	Thiamethoxam	40 - 2792	ND
Kresoxim-methyl	20 - 2755	ND	Trifloxystrobin	45 - 2751	ND

Final Approval



Karen Winternheimer
15Sep2022
01:25:00 PM MDT

PREPARED BY / DATE



Sam Smith
15Sep2022
01:29:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/9b9b6a8f-6fef-4755-953e-18f2fe3c99e3>

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

Cinnamint Tincture 1000mg - 220140

Batch ID or Lot Number: 220140	Test: Mycotoxins	Reported: 20Sep2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000221037	Started: 19Sep2022	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 12Sep2022	Status: Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.72 - 132.38	ND	N/A
Aflatoxin B1	1.00 - 32.60	ND	
Aflatoxin B2	1.00 - 33.15	ND	
Aflatoxin G1	1.00 - 33.05	ND	
Aflatoxin G2	1.07 - 33.28	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Jacob Miller
20Sep2022
02:10:00 PM MDT

PREPARED BY / DATE



Sam Smith
20Sep2022
02:14:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/29d1b15e-e8a1-41f9-b2fd-48ecf2c2074e>

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 United States

Sample Name:	Cinnamint Tincture 1000mg - 220140	Eurofins Sample:	12159246
Project ID	ELIXINOL-20220909-0031	Receipt Date	14-Sep-2022
PO Number	NA	Receipt Condition	Ambient temperature
Lot Number	220140	Login Date	09-Sep-2022
Sample Serving Size	1 mL	Date Started	14-Sep-2022
		Sampled	Sample results apply as received
		Online Order	13484-17DE109D

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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