

CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

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

Calm Capsules - Lot 22010602-01

Batch ID or Lot Number: Lot 22010602-01	Test: Potency	Reported: 29Mar2022	USDA License: N/A
Matrix: Unit	Test ID: T000199326	Started: 28Mar2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 25Mar2022	Status: N/A

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.039	0.085	0.350	0.47	
Cannabichromenic Acid (CBCA)	0.035	0.077	0.049*	0.07*	
Cannabidiol (CBD)	0.095	0.233	17.590	23.79	
Cannabidiolic Acid (CBDA)	0.098	0.239	0.860	1.16	
Cannabidivarin (CBDV)	0.023	0.055	0.088	0.12	
Cannabidivarinic Acid (CBDVA)	0.041	0.100	ND	ND	
Cannabigerol (CBG)	0.022	0.048	0.202	0.27	
Cannabigerolic Acid (CBGA)	0.092	0.201	ND	ND	
Cannabinol (CBN)	0.029	0.063	0.046*	0.06*	
Cannabinolic Acid (CBNA)	0.062	0.137	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.109	0.239	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.099	0.217	0.405	0.55	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.088	0.192	ND	ND	
Tetrahydrocannabivarin (THCV)	0.020	0.044	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.077	0.170	ND	ND	
Total Cannabinoids			19.590	26.49	
Total Potential THC			0.405	0.55	
Total Potential CBD			18.344	24.81	

Final Approval



Jacob Miller
29Mar2022
04:20:00 PM MDT

PREPARED BY / DATE



Ryan Weems
29Mar2022
04:27:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/e73e1a8d-3166-47ca-a621-24a3e2158898>

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

e73e1a8d316647caa62124a3e2158898.1

CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

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

Calm Capsules - Lot 22010602-01

Batch ID or Lot Number: Lot 22010602-01	Test: Residual Solvents	Reported: 28Mar2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000199330	Started: 28Mar2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 25Mar2022	Status: N/A

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	67 - 1348	ND	
Butanes (Isobutane, n-Butane)	135 - 2703	ND	
Methanol	50 - 1007	ND	
Pentane	71 - 1425	ND	
Ethanol	78 - 1555	ND	
Acetone	80 - 1603	ND	
Isopropyl Alcohol	85 - 1706	ND	
Hexane	5 - 97	ND	
Ethyl Acetate	80 - 1595	ND	
Benzene	0.2 - 3.4	ND	
Heptanes	80 - 1604	ND	
Toluene	15 - 293	ND	
Xylenes (m,p,o-Xylenes)	106 - 2116	ND	

Final Approval



Daniel Weidensaul
28Mar2022
05:07:00 PM MDT

PREPARED BY / DATE



Ryan Weems
28Mar2022
05:09:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/fcd04782-7d89-4a5f-86a9-a5c9a2d50b0e>

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

Calm Capsules - Lot 22010602-01

Batch ID or Lot Number: Lot 22010602-01	Test: Heavy Metals	Reported: 30Mar2022	USDA License: NA
Matrix: Unit Co	Test ID: T000199329	Started: 29Mar2022	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 25Mar2022	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.19	ND	
Cadmium	0.04 - 4.17	ND	
Mercury	0.04 - 4.14	ND	
Lead	0.04 - 4.16	ND	

Final Approval



Ryan Weems
30Mar2022
12:18:00 PM MDT

PREPARED BY / DATE



Daniel Weidensaul
30Mar2022
12:21:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/4b8a3dff-febf-405a-b5d4-f8d0b0f134f4>

Definitions

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

Calm Capsules - Lot 22010602-01

Batch ID or Lot Number: Lot 22010602-01	Test: Microbial Contaminants	Reported: 28Mar2022	USDA License: N/A
Matrix: Finished Product	Test ID: T000199328	Started: 25Mar2022	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 25Mar2022	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	<LLOQ	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval


 Jackson Osaghae-Nosa
 28Mar2022
 04:16:00 PM MDT

PREPARED BY / DATE



 Brianne Maillot
 28Mar2022
 04:34:00 PM MDT

APPROVED BY / DATE


<https://results.botanacor.com/api/v1/coas/uuid/3373c434-5a49-4c8f-87b8-075929790bb6>
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

Calm Capsules - Lot 22010602-01

Batch ID or Lot Number: Lot 22010602-01	Test: Pesticides	Reported: 30Mar2022	USDA License: NA
Matrix: Concentrate	Test ID: T000199327	Started: 29Mar2022	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 25Mar2022	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	333 - 2769	ND	Malathion	290 - 2748	ND
Acephate	37 - 2835	ND	Metalaxyl	39 - 2797	ND
Acetamiprid	38 - 2792	ND	Methiocarb	33 - 2697	ND
Azoxystrobin	25 - 2767	ND	Methomyl	39 - 2846	ND
Bifenazate	34 - 2716	ND	MGK 264 1	191 - 1606	ND
Boscalid	22 - 2537	ND	MGK 264 2	127 - 1128	ND
Carbaryl	36 - 2739	ND	Myclobutanil	46 - 2677	ND
Carbofuran	36 - 2722	ND	Naled	47 - 2786	ND
Chlorantraniliprole	12 - 2656	ND	Oxamyl	42 - 2826	ND
Chlorpyrifos	45 - 2784	ND	Pacllobutrazol	48 - 2765	ND
Clofentezine	270 - 2758	ND	Permethrin	325 - 2798	ND
Diazinon	286 - 2785	ND	Phosmet	39 - 2748	ND
Dichlorvos	290 - 2824	ND	Prophos	290 - 2701	ND
Dimethoate	34 - 2812	ND	Propoxur	41 - 2720	ND
E-Fenpyroximate	329 - 2817	ND	Pyridaben	321 - 2836	ND
Etofenprox	34 - 2865	ND	Spinosad A	31 - 2296	ND
Etoxazole	330 - 2791	ND	Spinosad D	50 - 517	ND
Fenoxycarb	41 - 2762	ND	Spiromesifen	315 - 2774	ND
Fipronil	11 - 2752	ND	Spirotetramat	288 - 2734	ND
Flonicamid	57 - 2754	ND	Spiroxamine 1	14 - 1161	ND
Fludioxonil	308 - 2712	ND	Spiroxamine 2	16 - 1526	ND
Hexythiazox	31 - 2785	ND	Tebuconazole	272 - 2741	ND
Imazalil	284 - 2802	ND	Thiacloprid	36 - 2773	ND
Imidacloprid	39 - 2767	ND	Thiamethoxam	43 - 2800	ND
Kresoxim-methyl	28 - 2737	ND	Trifloxystrobin	34 - 2765	ND

Final Approval


 Sam Smith
 30Mar2022
 12:00:00 PM MDT

PREPARED BY / DATE


 Daniel Weidensaul
 30Mar2022
 12:03:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/0eeeedd2-cfec-426e-874c-caf8574685a8>

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

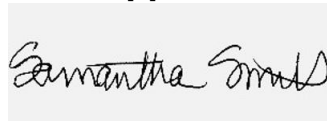
10170 Church Ranch Way, Ste 400
Westminster, CO USA 80021

Calm Capsules - Lot 22010602-01

Batch ID or Lot Number: Lot 22010602-01	Test: Mycotoxins	Reported: 31Mar2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000199331	Started: 30Mar2022	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 25Mar2022	Status: N/A

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.60 - 129.20	ND	N/A
Aflatoxin B1	0.93 - 32.60	ND	
Aflatoxin B2	1.08 - 33.07	ND	
Aflatoxin G1	1.15 - 31.73	ND	
Aflatoxin G2	1.15 - 31.33	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Sam Smith
31Mar2022
10:15:00 AM MDT

PREPARED BY / DATE



Ryan Weems
31Mar2022
10:17:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/65c6bf48-d663-4f68-9069-6af798d77fe2>

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

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Sample Name:	Calm Capsules - Lot 22010602-01	Eurofins Sample:	11569493
Project ID	ELIXINOL-20220321-0007	Receipt Date	28-Mar-2022
PO Number		Receipt Condition	Ambient temperature
Lot Number	Lot 22010602-01	Login Date	21-Mar-2022
Sample Serving Size	1 Cap	Date Started	29-Mar-2022
		Sampled	Sample results apply as received
		Number Composited	20
		Online Order	13484-16FB69A5

Analysis	Result
Calculated Sample Weight *	
Entity Weight	0.7180 g
Entity Fill Weight	0.5879 g
Enterobacteriaceae Plate Count *	
Enterobacteriaceae	<10 CFU/g
Glyphosate and AMPA	
Glyphosate	<100 ng/g
AMPA	<100 ng/g

Method References	Testing Location
-------------------	------------------

Calculated Sample Weight (PREP)	Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
--	--

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".

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

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

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



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.

UET Finished Product Certificate Of Analysis



Calm Stress Support

CAPSULE CODE:	A8098-01	SPECIFICATION NUMBER:	EXCS-A8098-01	REVISION NO.:	01
PACKAGING CODE:	F3093-01-Box	LOT NUMBER:	22010602-01		
MANUFACTURING DATE:	03/2022	RE-TEST DATE:	03/2024		
EXCIPIENTS:	MCT Oil, Silica	CARRIERS:	N/A		

IDENTIFICATION	SPECIFICATION	RESULTS	TEST METHOD
Color	Brown	Complies	Visual
Appearance	Liquid	Complies	Visual

TRACE METALS	SPECIFICATION	RESULTS	TEST METHOD
Arsenic (As)	NMT 1.0 ppm	NMT 0.50 ppm	ICP-MS
Cadmium (Cd)	NMT 1.0 ppm	NMT 0.25 ppm	ICP-MS
Lead (Pb)	NMT 0.5 ppm	NMT 0.05 ppm	ICP-MS
Mercury (Hg)	NMT 0.5 ppm	NMT 0.10 ppm	ICP-MS

MICROBIAL ASSAY	SPECIFICATION	RESULTS	TEST METHOD
Total Plate Count	NMT 10,000 CFU/g	Complies	USP<2021>
Yeast & Mold	NMT 1,000 CFU/g	Complies	USP<2021>
Salmonella	Absent/10 grams	Complies	USP<2022>
E. coli	Absent/10 grams	Complies	USP<2022>
Staphylococcus aureus	Absent/10 grams	Complies	USP<2022>

ASSAY FOR ACTIVES	SPECIFICATION (per capsule)	RESULTS	TEST METHOD
Aswagandha Extract	NLT 300.0mg	304.3mg	In Put Weight
CBD	NLT 15.0mg	15.6mg	HPLC

ADDITIONAL INFORMATION
<p>SHELF LIFE: Two (2) years from date of manufacturing.</p> <p>STORAGE: Store in a cool dry place, away from direct sunlight.</p> <p>NMT= Not More Than NLT= Not Less Than</p>

Approved by:  Date: 03/21/2022
 Quality Assurance