

CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

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

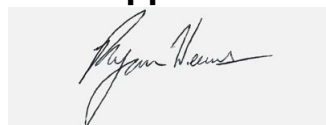
Natural Tincture 1000 - 220102

Batch ID or Lot Number: 220102	Test: Potency	Reported: 26May2022	USDA License: N/A
Matrix: Solution	Test ID: T000206747	Started: 12May2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 11May2022	Status: Active

Cannabinoids

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.055	0.194	0.581	0.61	Amendment to certificate T000206747 issued on 13May2022, sample name and batch ID updated. Density = 0.951335g/mL
Cannabichromenic Acid (CBCA)	0.051	0.178	ND	ND	
Cannabidiol (CBD)	0.195	0.537	19.041	20.02	
Cannabidiolic Acid (CBDA)	0.200	0.551	ND	ND	
Cannabidivarin (CBDV)	0.046	0.127	0.245	0.26	
Cannabidivarinic Acid (CBDVA)	0.083	0.230	ND	ND	
Cannabigerol (CBG)	0.031	0.110	0.248	0.26	
Cannabigerolic Acid (CBGA)	0.132	0.462	ND	ND	
Cannabinol (CBN)	0.041	0.144	<LOQ	0.06	
Cannabinolic Acid (CBNA)	0.090	0.315	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.157	0.550	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.142	0.499	0.991	1.04	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.126	0.442	ND	ND	
Tetrahydrocannabivarin (THCV)	0.029	0.100	0.111	0.12	
Tetrahydrocannabivarinic Acid (THCVA)	0.111	0.390	ND	ND	
Total Cannabinoids			21.275	22.36	
Total Potential THC			0.991	1.04	
Total Potential CBD			19.041	20.02	

Final Approval



Ryan Weems
26May2022
12:34:00 PM MDT

PREPARED BY / DATE



Daniel Weidensaul
26May2022
12:49:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/1ce2453f-3505-4937-a683-01bad820ced4>

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
1ce2453f35054937a68301bad820ced4.2

CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

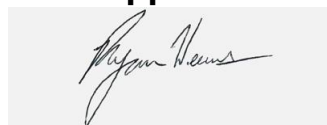
10170 Church Ranch Way, Ste 400
Westminster, CO USA 80021

Natural Tincture 1000 - 220102

Batch ID or Lot Number: 220102	Test: Residual Solvents	Reported: 26May2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000206751	Started: 12May2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 11May2022	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	65 - 1302	ND	Amendment to certificate T000206571 issued on 12May2022, sample name and batch ID updated.
Butanes (Isobutane, n-Butane)	144 - 2882	ND	
Methanol	59 - 1180	ND	
Pentane	84 - 1672	ND	
Ethanol	81 - 1610	ND	
Acetone	93 - 1853	ND	
Isopropyl Alcohol	94 - 1886	ND	
Hexane	6 - 113	ND	
Ethyl Acetate	94 - 1871	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	93 - 1858	ND	
Toluene	17 - 341	ND	
Xylenes (m,p,o-Xylenes)	124 - 2481	ND	

Final Approval



Ryan Weems
26May2022
12:43:00 PM MDT

PREPARED BY / DATE



Daniel Weidensaul
26May2022
01:03:00 PM MDT

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<https://results.botanacor.com/api/v1/coas/uuid/8fc890e1-2756-4fdf-b0a7-39d16516ff3d>

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

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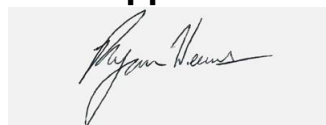
10170 Church Ranch Way, Ste 400
Westminster, CO USA 80021

Natural Tincture 1000 - 220102

Batch ID or Lot Number: 220102	Test: Heavy Metals	Reported: 26May2022	USDA License: NA
Matrix: Unit Co	Test ID: T000206750	Started: 13May2022	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 11May2022	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.66	ND	Amendment to certificate T000206750 issued on 16May2022, sample name and batch ID updated.
Cadmium	0.05 - 4.61	ND	
Mercury	0.05 - 4.57	ND	
Lead	0.06 - 6.01	ND	

Final Approval



Ryan Weems
26May2022
12:40:00 PM MDT

PREPARED BY / DATE



Daniel Weidensaul
26May2022
12:58:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/3b78ab4c-abda-4f33-b283-77adca93b4f1>

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

Natural Tincture 1000 - 220102

Batch ID or Lot Number: 220102	Test: Microbial Contaminants	Reported: 26May2022	USDA License: N/A
Matrix: Finished Product	Test ID: T000206749	Started: 11May2022	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 11May2022	Status: Active

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 Amendment to report T000206749 for sample name and lot number correction. SCH 26May2022
<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


 Sarah Henning
 26May2022
 02:36:00 PM MDT



 Carly Bader
 26May2022
 02:44:00 PM MDT


PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/39ffc24d-6cab-497e-b8e7-1ef765084f70>
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

Natural Tincture 1000 - 220102

Batch ID or Lot Number: 22102	Test: Pesticides	Reported: 18May2022	USDA License: NA
Matrix: Concentrate	Test ID: T000206748	Started: 17May2022	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 11May2022	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	296 - 2658	ND	Malathion	275 - 2743	ND
Acephate	42 - 2772	ND	Metalaxyl	41 - 2742	ND
Acetamiprid	39 - 2760	ND	Methiocarb	38 - 2683	ND
Azoxystrobin	39 - 2717	ND	Methomyl	41 - 2799	ND
Bifenazate	36 - 2709	ND	MGK 264 1	146 - 1670	ND
Boscalid	39 - 2624	ND	MGK 264 2	110 - 1151	ND
Carbaryl	34 - 2738	ND	Myclobutanil	28 - 2704	ND
Carbofuran	41 - 2724	ND	Naled	46 - 2792	ND
Chlorantraniliprole	46 - 2568	ND	Oxamyl	40 - 2780	ND
Chlorpyrifos	36 - 2743	ND	Pacllobutrazol	44 - 2723	ND
Clofentezine	282 - 2746	ND	Permethrin	276 - 2740	ND
Diazinon	294 - 2761	ND	Phosmet	44 - 2706	ND
Dichlorvos	272 - 2763	ND	Prophos	294 - 2715	ND
Dimethoate	39 - 2759	ND	Propoxur	41 - 2732	ND
E-Fenpyroximate	271 - 2697	ND	Pyridaben	274 - 2742	ND
Etofenprox	38 - 2726	ND	Spinosad A	33 - 2231	ND
Etoxazole	269 - 2711	ND	Spinosad D	45 - 497	ND
Fenoxycarb	39 - 2712	ND	Spiromesifen	238 - 2733	ND
Fipronil	46 - 2724	ND	Spirotetramat	294 - 2701	ND
Flonicamid	49 - 2789	ND	Spiroxamine 1	16 - 1140	ND
Fludioxonil	301 - 2620	ND	Spiroxamine 2	23 - 1526	ND
Hexythiazox	42 - 2725	ND	Tebuconazole	295 - 2706	ND
Imazalil	274 - 2775	ND	Thiacloprid	41 - 2765	ND
Imidacloprid	39 - 2802	ND	Thiamethoxam	43 - 2791	ND
Kresoxim-methyl	37 - 2763	ND	Trifloxystrobin	43 - 2750	ND

Final Approval



Daniel Weidensaul
18May2022
04:50:00 PM MDT



Ryan Weems
18May2022
04:53:00 PM MDT



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/2c550f44-ef20-48f2-a815-758c8d0d142c>

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

Natural Tincture 1000 - 220102

Batch ID or Lot Number: 22102	Test: Mycotoxins	Reported: 17May2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000206753	Started: 16May2022	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 11May2022	Status: Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.17 - 132.24	ND	N/A
Aflatoxin B1	1.00 - 35.10	ND	
Aflatoxin B2	1.13 - 34.70	ND	
Aflatoxin G1	1.10 - 35.07	ND	
Aflatoxin G2	1.40 - 35.24	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Hannah Wright
17May2022
12:59:00 PM MDT

PREPARED BY / DATE



Sam Smith
17May2022
01:07:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/0f78ae46-2cc1-40e8-81fc-e5c7ca192a7a>

Definitions

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

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Cert #4329.02

CDPHE Certified
0f78ae462cc140e881fce5c7ca192a7a.1

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021

Sample Name:	Natural Tincture 1000 - 220102	Eurofins Sample:	11739740
Project ID	ELIXINOL-20220510-0018	Receipt Date	13-May-2022
PO Number		Receipt Condition	Ambient temperature
Lot Number	220102	Login Date	10-May-2022
Sample Serving Size	1 mL	Date Started	16-May-2022
Description	Natural Tincture 1000	Sampled	Sample results apply as received
		Online Order	13484-173D75B7

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: 25-May-2022 4:11 pm

Page 1 of 1