

# CERTIFICATE OF ANALYSIS

Prepared for:  
**Elixinol LLC**

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

## Tincture Natural 1000mg - 220162

Batch ID or Lot Number: <b>220162</b>	Test: <b>Potency</b>	Reported: <b>25Nov2022</b>	USDA License: N/A
Matrix: Solution	Test ID: T000228280	Started: 23Nov2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 21Nov2022	Status: Active

### Cannabinoids

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.056	0.204	0.711	0.75	Density = 0.95315g/mL
Cannabichromenic Acid (CBCA)	0.051	0.187	ND	ND	
Cannabidiol (CBD)	0.211	0.569	22.318	23.41	
Cannabidiolic Acid (CBDA)	0.217	0.584	0.690	0.72	
Cannabidivarin (CBDV)	0.050	0.135	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.090	0.243	ND	ND	
Cannabigerol (CBG)	0.032	0.116	0.369	0.39	
Cannabigerolic Acid (CBGA)	0.132	0.485	ND	ND	
Cannabinol (CBN)	0.041	0.151	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.090	0.331	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.158	0.578	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.143	0.525	0.954	1.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.127	0.465	ND	ND	
Tetrahydrocannabivarin (THCV)	0.029	0.106	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.112	0.410	ND	ND	
<b>Total Cannabinoids</b>			<b>25.042</b>	<b>26.27</b>	
Total Potential THC			0.954	1.00	
Total Potential CBD			22.923	24.04	

### Final Approval



Karen Winternheimer  
25Nov2022  
01:03:00 PM MST

PREPARED BY / DATE



Sam Smith  
25Nov2022  
01:05:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/8de536d6-0e89-4fc5-a71c-914937f79c6e>

#### 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

8de536d60e894fc5a71c914937f79c6e.1

# CERTIFICATE OF ANALYSIS

Prepared for:  
**Elixinol LLC**


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

## Tincture Natural 1000mg - 220162

Batch ID or Lot Number: <b>220162</b>	Test: <b>Residual Solvents</b>	Reported: <b>22Nov2022</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000228284	Started: 22Nov2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 21Nov2022	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	83 - 1660	ND	
Butanes (Isobutane, n-Butane)	163 - 3266	ND	
Methanol	54 - 1072	ND	
Pentane	90 - 1796	ND	
Ethanol	90 - 1790	ND	
Acetone	88 - 1766	ND	
Isopropyl Alcohol	91 - 1812	ND	
Hexane	5 - 109	ND	
Ethyl Acetate	92 - 1833	ND	
Benzene	0.2 - 3.7	ND	
Heptanes	92 - 1846	ND	
Toluene	16 - 312	ND	
Xylenes (m,p,o-Xylenes)	117 - 2345	ND	

## Final Approval



Sam Smith  
22Nov2022  
01:59:00 PM MST

PREPARED BY / DATE



Karen Winternheimer  
22Nov2022  
01:59:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/c65ee627-f8a2-469f-bb5a-8b0f2b1169d1>

### 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**

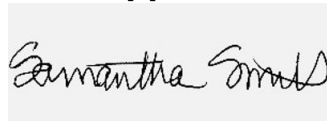
10170 Church Ranch Way, Ste 400  
Westminster, CO USA 80021

## Tincture Natural 1000mg - 220162

Batch ID or Lot Number: <b>220162</b>	Test: <b>Heavy Metals</b>	Reported: <b>27Nov2022</b>	USDA License: NA
Matrix: Unit Co	Test ID: T000228283	Started: 23Nov2022	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 21Nov2022	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 3.67	ND	
Cadmium	0.03 - 3.33	ND	
Mercury	0.03 - 3.45	ND	
Lead	0.03 - 3.13	ND	

## Final Approval



Sam Smith  
27Nov2022  
08:34:00 AM MST

PREPARED BY / DATE



Karen Winternheimer  
27Nov2022  
08:47:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/e3b6a270-223b-454f-ac6c-fdba6772f05d>

### Definitions

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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


## Tincture Natural 1000mg - 220162

Batch ID or Lot Number: <b>220162</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>25Nov2022</b>	USDA License: N/A
Matrix: Finished Product	Test ID: T000228282	Started: 14Jan1900	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 21Nov2022	Status: Active

## Microbial Contaminants

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

## Final Approval



Eden Thompson-Wright  
25Nov2022  
10:42:00 AM MST

PREPARED BY / DATE



Brianne Maillot  
25Nov2022  
01:48:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/7586fd2c-55b6-43b8-84f6-8ddeab6265f0>

### 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: 10<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 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

## Tincture Natural 1000mg - 220162

Batch ID or Lot Number: <b>220162</b>	Test: <b>Pesticides</b>	Reported: <b>30Nov2022</b>	USDA License: NA
Matrix: Concentrate	Test ID: T000228281	Started: 29Nov2022	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 21Nov2022	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	305 - 2676	ND	Malathion	301 - 2750	ND
Acephate	41 - 2759	ND	Metalaxyl	47 - 2739	ND
Acetamiprid	44 - 2746	ND	Methiocarb	43 - 2743	ND
Azoxystrobin	46 - 2724	ND	Methomyl	43 - 2753	ND
Bifenazate	45 - 2712	ND	MGK 264 1	181 - 1606	ND
Boscalid	45 - 2751	ND	MGK 264 2	120 - 1149	ND
Carbaryl	43 - 2735	ND	Myclobutanil	46 - 2762	ND
Carbofuran	44 - 2736	ND	Naled	48 - 2769	ND
Chlorantraniliprole	51 - 2753	ND	Oxamyl	42 - 2740	ND
Chlorpyrifos	46 - 2754	ND	Pacllobutrazol	42 - 2743	ND
Clofentezine	286 - 2770	ND	Permethrin	240 - 2787	ND
Diazinon	283 - 2744	ND	Phosmet	47 - 2723	ND
Dichlorvos	312 - 2736	ND	Prophos	300 - 2744	ND
Dimethoate	44 - 2728	ND	Propoxur	44 - 2735	ND
E-Fenpyroximate	289 - 2786	ND	Pyridaben	291 - 2703	ND
Etofenprox	46 - 2791	ND	Spinosad A	34 - 2246	ND
Etoxazole	305 - 2753	ND	Spinosad D	51 - 504	ND
Fenoxycarb	44 - 2762	ND	Spiromesifen	282 - 2763	ND
Fipronil	54 - 2891	ND	Spirotetramat	285 - 2787	ND
Flonicamid	48 - 2696	ND	Spiroxamine 1	17 - 1182	ND
Fludioxonil	300 - 2724	ND	Spiroxamine 2	24 - 1566	ND
Hexythiazox	43 - 2798	ND	Tebuconazole	287 - 2758	ND
Imazalil	269 - 2784	ND	Thiacloprid	44 - 2743	ND
Imidacloprid	47 - 2761	ND	Thiamethoxam	41 - 2770	ND
Kresoxim-methyl	48 - 2780	ND	Trifloxystrobin	45 - 2763	ND

## Final Approval



Sam Smith  
30Nov2022  
12:52:00 PM MST

PREPARED BY / DATE



Karen Winternheimer  
30Nov2022  
12:56:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/a3502082-b374-4a4a-b802-0856c2a6b34c>

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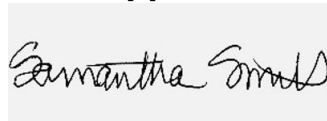
10170 Church Ranch Way, Ste 400  
Westminster, CO USA 80021

## Tincture Natural 1000mg - 220162

Batch ID or Lot Number: <b>220162</b>	Test: <b>Mycotoxins</b>	Reported: <b>29Nov2022</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000228286	Started: 28Nov2022	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 21Nov2022	Status: Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.90 - 130.59	ND	N/A
Aflatoxin B1	0.97 - 33.37	ND	
Aflatoxin B2	1.04 - 33.30	ND	
Aflatoxin G1	1.13 - 33.98	ND	
Aflatoxin G2	1.13 - 33.59	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

## Final Approval



Sam Smith  
29Nov2022  
09:14:00 AM MST

PREPARED BY / DATE



Karen Winternheimer  
29Nov2022  
09:17:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/1b0738c3-d4c7-418b-b8ee-a2288d535408>

### 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

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## Certificate of Analysis

### Elixinol, LLC

10170 Church Ranch  
Westminster Colorado 80021 United States

<b>Sample Name:</b>	<b>Tincture Natural 1000mg - 220162</b>	<b>Eurofins Sample:</b>	<b>12390286</b>
<b>Project ID</b>	ELIXINOL-20221118-0038	<b>Receipt Date</b>	23-Nov-2022
<b>PO Number</b>	PO-0016	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	220162	<b>Login Date</b>	18-Nov-2022
<b>Sample Serving Size</b>	1 mL	<b>Date Started</b>	23-Nov-2022
<b>Description</b>	Tincture Natural 1000mg - 220162	<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	2
		<b>Online Order</b>	901-2022-E018703

Analysis	Result
<b>Density by Gravimetric Analysis</b>	
Density	0.956 g/mL
<b>Enterobacteriaceae Plate Count *</b>	
Enterobacteriaceae	<10 CFU/g
<b>Glyphosate and AMPA</b>	
Glyphosate	<100 ng/g
AMPA	<100 ng/g

Method References	Testing Location
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<b>Density by Gravimetric Analysis (SPGP_S)</b>	<b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA
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NIST Handbook 133 - Checking the Net Contents of Packaged Goods, 2015 Edition (Modified)

<b>Enterobacteriaceae Plate Count (EBPC)</b>	<b>EML New Berlin</b> 2345 S 170th St New Berlin, WI 53151 USA
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Compendium of Methods for the Microbiological Examination of Foods: Enterobacteriaceae, Coliforms, and Escherichia coli as Quality and Safety Indicators, Chapter 8, 4th Edition, 2001.

<b>Glyphosate and AMPA (GLY_AMPAS)</b>	<b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA
--	--

Internally developed method.

Testing Location(s)	Released on Behalf of Eurofins by
---------------------	-----------------------------------

<b>Food Integrity Innovation-Madison</b>	<b>Edward Ladwig - President Eurofins Food Chemistry Testing Madison</b>
--	--

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



2918.01

\* This analysis or component is not ISO accredited.

Printed: 06-Dec-2022 7:51 pm

Page 1 of 2

## Certificate of Analysis

Elixinol, LLC

10170 Church Ranch

Westminster Colorado 80021 United States

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.