

Prepared for:

### **Elixinol LLC**

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

### 500mg Natural Tincture - 220118

Batch ID or Lot Number: <b>220118</b>	Test: <b>Potency</b>	Reported: <b>27Jun2022</b>	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Solution	T000211365	23Jun2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	22Jun2022	Active

			Result		
Cannabinoids	LOD (mg/mL)	LOQ (mg/mL)	(mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.067	0.208	0.489	0.52	Density =
Cannabichromenic Acid (CBCA)	0.061	0.190	ND	ND	0.94172g/mL
Cannabidiol (CBD)	0.172	0.543	18.749	19.91	
Cannabidiolic Acid (CBDA)	0.176	0.556	ND	ND	
Cannabidivarin (CBDV)	0.041	0.128	0.324	0.34	
Cannabidivarinic Acid (CBDVA)	0.073	0.232	ND	ND	
Cannabigerol (CBG)	0.038	0.118	0.182	0.19	
Cannabigerolic Acid (CBGA)	0.158	0.493	ND	ND	
Cannabinol (CBN)	0.049	0.154	ND	ND	
Cannabinolic Acid (CBNA)	0.108	0.336	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.189	0.587	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.171	0.533	0.895	0.95	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.152	0.473	ND	ND	
Tetrahydrocannabivarin (THCV)	0.034	0.107	0.111	0.12	
Tetrahydrocannabivarinic Acid (THCVA)	0.134	0.417	ND	ND	
Total Cannabinoids			20.750	22.03	-
Total Potential THC			0.895	0.95	
Total Potential CBD			18.749	19.91	

**Final Approval** 

PREPARED BY / DATE

Danuel Westonsand

Daniel Weidensaul 28Jun2022 06:09:00 PM MDT

APPROVED BY / DATE

Jacob Miller 28Jun2022 06:11:00 PM MDT



DATE

https://results.botanacor.com/api/v1/coas/uuid/5543ac19-9c8b-40b9-9bdf-05f5a6a54069

### 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 5543ac199c8b40b99bdf05f5a6a54069.1



### Prepared for:

### **Elixinol LLC**

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

## 500mg Natural Tincture - 220118

Batch ID or Lot Number: 220118	Test: <b>Residual Solvents</b>	Reported: 23Jun2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000211369	23Jun2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	22Jun2022	Active

<b>Residual Solvents</b>	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	74 - 1484	ND	
Butanes (Isobutane, n-Butane)	116 - 2316	ND	
Methanol	43 - 864	ND	
Pentane	63 - 1270	ND	
Ethanol	68 - 1364	ND	
Acetone	71 - 1423	ND	
Isopropyl Alcohol	72 - 1445	ND	
Hexane	4 - 88	ND	
Ethyl Acetate	73 - 1451	ND	
Benzene	0.2 - 3.1	ND	
Heptanes	74 - 1478	ND	
Toluene	13 - 269	ND	
Xylenes (m,p,o-Xylenes)	99 - 1975	ND	

**Final Approval** 

PREPARED BY / DATE

Jacob Miller 23Jun2022 04:24:00 PM MDT Samantha Smoth

Sam Smith 23Jun2022 04:29:00 PM MDT



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/7b225f0a-3aa8-41d7-998d-5cce445a8af9

#### **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 7b225f0a3aa841d7998d5cce445a8af9.1



Prepared for:

## **Elixinol LLC**

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

### 500mg Natural Tincture - 220118

Batch ID or Lot Number: 220118	Test: <b>Heavy Metals</b>	Reported: <b>28Jun2022</b>	USDA License: NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000211368	27Jun2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	22Jun2022	NA

Dynamic Range (ppm)	Result (ppm)	Notes	
0.08 - 7.90	ND		
0.08 - 7.87	ND		
0.08 - 7.80	ND		
0.08 - 7.99	ND		
	0.08 - 7.90 0.08 - 7.87 0.08 - 7.80	0.08 - 7.90 ND 0.08 - 7.87 ND 0.08 - 7.80 ND	0.08 - 7.90     ND       0.08 - 7.87     ND       0.08 - 7.80     ND

**Final Approval** 

PREPARED BY / DATE

Daniel Weidensaul 29Jun2022 08:05:00 PM MDT

Courtney Richards 29Jun2022 09:10:00 PM MDT



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/a47522c3-602e-4e4b-9f1b-b5257921462f

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

## 500mg Natural Tincture - 220118

Batch ID or Lot Number: 220118	Test:	Reported:	USDA License:
	Microbial Contaminants	27Jun2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000211367	22Jun2022	N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 22Jun2022 D	Status: Active

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

Carly Bade

Carly Bader 25Jun2022 12:48:00 PM MDT

Eden Thompson

Eden Thompson-Wright 27Jun2022 09:17:00 AM MDT



PREPARED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/12647328-38c8-4da1-a789-64f3435d13cd

#### **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

APPROVED BY / DATE

ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation STEC = Shiga Toxin-Producing E. coli

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CDPHE Certified 1264732838c84da1a78964f3435d13cd.1



Prepared for:

## **Elixinol LLC**

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

### 500mg Natural Tincture - 220118

Batch ID or Lot Number: 220118	Test: <b>Pesticides</b>	Reported: 28Jun2022	USDA License: NA	
Matrix: Concentrate	Test ID: T000211366	Started: 27Jun2022	Sampler ID: NA	
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 22Jun2022	Status: NA	

Pesticides	<b>Dynamic Range</b> (ppb)	Result (ppb)
Abamectin	338 - 2613	ND
Acephate	36 - 2798	ND
Acetamiprid	44 - 2766	ND
Azoxystrobin	49 - 2726	ND
Bifenazate	48 - 2719	ND
Boscalid	62 - 2708	ND
Carbaryl	40 - 2787	ND
Carbofuran	47 - 2720	ND
Chlorantraniliprole	43 - 2797	ND
Chlorpyrifos	38 - 2854	ND
Clofentezine	296 - 2749	ND
Diazinon	282 - 2742	ND
Dichlorvos	287 - 2780	ND
Dimethoate	46 - 2740	ND
E-Fenpyroximate	240 - 2759	ND
Etofenprox	44 - 2761	ND
Etoxazole	280 - 2727	ND
Fenoxycarb	46 - 2733	ND
Fipronil	34 - 2841	ND
Flonicamid	45 - 2744	ND
Fludioxonil	260 - 2691	ND
Hexythiazox	49 - 2751	ND
Imazalil	282 - 2720	ND
Imidacloprid	46 - 2783	ND
Kresoxim-methyl	47 - 2724	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	285 - 2711	ND
Metalaxyl	48 - 2710	ND
Methiocarb	41 - 2770	ND
Methomyl	42 - 2759	ND
MGK 264 1	144 - 1643	ND
MGK 264 2	116 - 1152	ND
Myclobutanil	48 - 2742	ND
Naled	45 - 2712	ND
Oxamyl	45 - 2776	ND
Paclobutrazol	49 - 2705	ND
Permethrin	290 - 2808	ND
Phosmet	44 - 2728	ND
Prophos	263 - 2762	ND
Propoxur	48 - 2735	ND
Pyridaben	266 - 2802	ND
Spinosad A	41 - 2198	ND
Spinosad D	49 - 494	ND
Spiromesifen	236 - 2767	ND
Spirotetramat	280 - 2691	ND
Spiroxamine 1	20 - 1173	ND
Spiroxamine 2	25 - 1552	ND
Tebuconazole	287 - 2746	ND
Thiacloprid	44 - 2743	ND
Thiamethoxam	40 - 2778	ND
Trifloxystrobin	48 - 2713	ND

**Final Approval** 

Daniel Westersand

Daniel Weidensaul 28Jun2022 08:49:00 PM MDT Caulmy Richards

APPROVED BY / DATE

Courtney Richards 28Jun2022 12:00:00 AM MDT



PREPARED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/40dd8d97-058e-488d-b36b-575055c132cb

**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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prepared for: Elixinol LLC

10170 Church Ranch Way, Ste 400 Westminster, CO 80021

### 500mg Natural Tincture - 220118

Batch ID:	220118	Test ID:	T000211371
Туре:	Concentrate	Submitted:	06/22/2022 @ 09:02 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	4.9 - 130.8	ND	20	Pass
Aflatavia D1	1 22 7	ND	NI/A	N1/A
Aflatoxin B1	1 - 32.7	ND	N/A	N/A
Aflatoxin B2	1.1 - 32.6	ND	N/A	N/A
Aflatoxin G1	1 - 33	ND	N/A	N/A
Aflatoxin G2	1 - 33.2	ND	N/A	N/A
Total Aflatoxins (B1, B2, G1, and G2)		ND	20	Pass

<sup>\*</sup> 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 ff this

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:

3726473-0

Report Date: 05-Jul-2022

Report Status: Final

## **Certificate of Analysis**

### Elixinol, LLC

10170 Church Ranch Westminster Colorado 80021

Sample Name:	500mg Natural Tincture - 220118	Eurofins Sample:	11875360
Project ID	ELIXINOL-20220621-0021	Receipt Date	24-Jun-2022
PO Number		Receipt Condition	Ambient temperature
Lot Number	220118	Login Date	21-Jun-2022
Sample Serving Size	1 mL	Date Started	24-Jun-2022
		Sampled	Sample results apply as received
		Online Order	13484-17748FF8

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





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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