

Prepared for:

Elixinol LLC

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

Natural 4000mg Tincture - 220088

Batch ID or Lot Number: 220088	Test: Potency	Reported: 11Apr2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Solution	T000201699	08Apr2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	07Apr2022	N/A

			Result		
Cannabinoids	LOD (mg/mL)	LOQ (mg/mL)	(mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.063	0.215	1.236	1.30	Density =
Cannabichromenic Acid (CBCA)	0.057	0.197	ND	ND	0.950072g/mL
Cannabidiol (CBD)	0.165	0.539	38.404	40.42	
Cannabidiolic Acid (CBDA)	0.169	0.552	ND	ND	
Cannabidivarin (CBDV)	0.039	0.127	0.249	0.26	
Cannabidivarinic Acid (CBDVA)	0.071	0.230	ND	ND	
Cannabigerol (CBG)	0.036	0.122	0.379	0.40	
Cannabigerolic Acid (CBGA)	0.148	0.511	ND	ND	
Cannabinol (CBN)	0.046	0.159	0.086*	0.09*	
Cannabinolic Acid (CBNA)	0.101	0.349	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.177	0.609	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.161	0.553	1.309	1.38	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.142	0.490	ND	ND	
Tetrahydrocannabivarin (THCV)	0.032	0.111	0.034*	0.04*	
Tetrahydrocannabivarinic Acid (THCVA)	0.125	0.432	ND	ND	
Total Cannabinoids			41.697	43.89	•
Total Potential THC			1.309	1.38	
Total Potential CBD			38.404	40.42	

Final Approval



Hannah Wright 11Apr2022 04:55:00 PM MDT

APPROVED BY / DATE

Ryan Weems 11Apr2022 05:02:00 PM MDT



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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 c30346d075a64abe9131888014dd754d.1



Prepared for:

Elixinol LLC

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

Natural 4000mg Tincture - 220088

Batch ID or Lot Number: 220088	Test: Residual Solvents	Reported: 08Apr2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000201703	08Apr2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	07Apr2022	N/A

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	90 - 1802	ND	
Butanes (Isobutane, n-Butane)	178 - 3560	ND	
Methanol	57 - 1147	ND	
Pentane	93 - 1853	ND	
Ethanol	82 - 1644	ND	
Acetone	95 - 1898	ND	
Isopropyl Alcohol	90 - 1805	ND	
Hexane	6 - 121	ND	
Ethyl Acetate	94 - 1875	ND	
Benzene	0.2 - 3.7	ND	
Heptanes	94 - 1888	ND	
Toluene	16 - 319	ND	
Xylenes (m,p,o-Xylenes)	110 - 2208	ND	

Final Approval

Wintersheimer PREPARED BY / DATE Karen Winternheimer 08Apr2022 04:05:00 PM MDT

APPROVED BY / DATE

Ryan Weems 08Apr2022 04:08:00 PM MDT



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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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Prepared for:

Elixinol LLC

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

Natural 4000mg Tincture - 220088

Batch ID or Lot Number: 220088	Test: Heavy Metals	Reported: 13Apr2022	USDA License: NA	
Matrix: Unit Co	Test ID: T000201702	Started: 12Apr2022	Sampler ID: NA	
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 07Apr2022	Status: NA	

Dynamic Range (ppm)	Result (ppm)	Notes	
0.04 - 4.46	ND		
0.04 - 4.47	ND		
0.04 - 4.46	ND		
0.04 - 4.27	ND		
	0.04 - 4.46 0.04 - 4.47 0.04 - 4.46	0.04 - 4.46 ND 0.04 - 4.47 ND 0.04 - 4.46 ND	0.04 - 4.46 ND 0.04 - 4.47 ND 0.04 - 4.46 ND

Final Approval

Ryan Weems 13Apr2022 02:14:00 PM MDT

PREPARED BY / DATE

MDT Samantha Smoot

APPROVED BY / DATE

Sam Smith 13Apr2022 02:17:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/7234494d-6ad4-4ff3-80dd-35bcf0558e63

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 7234494d6ad44ff380dd35bcf0558e63.1





Prepared for:

Elixinol LLC

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

Natural 4000mg Tincture - 220088

Batch ID or Lot Number: 220088	Test: Microbial Contaminants	Reported: 11Apr2022	USDA License: N/A	
Matrix:	Test ID:	Started:	Sampler ID:	
Finished Product	T000201701	07Apr2022	N/A	
	Method(s):	Received:	Status:	
	TM25 (qPCR) TM24, TM26, TM27	07Apr2022	N/A	
	(Culture Plating): Microbial (Colorac	do		
	Panel)			

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

Eden Thompson

Eden Thompson-Wright 10Apr2022 12:55:00 PM MDT

The Color

Brett Hudson 11Apr2022 02:32:00 PM MDT



PREPARED BY / DATE

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/debf321c-f826-4b31-ad20-4e74736bc65d

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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CDPHE Certified debf321cf8264b31ad204e74736bc65d.1



Prepared for:

Elixinol LLC

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

Natural 4000mg Tincture - 220088

Batch ID or Lot Number: 220088	Test: Pesticides	Reported: 13Apr2022	USDA License: NA	
Matrix: Concentrate	Test ID: T000201700	Started: 12Apr2022	Sampler ID: NA	
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 07Apr2022	Status: NA	

Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	289 - 2822	ND
Acephate	44 - 2813	ND
Acetamiprid	40 - 2789	ND
Azoxystrobin	44 - 2675	ND
Bifenazate	41 - 2692	ND
Boscalid	39 - 2815	ND
Carbaryl	37 - 2722	ND
Carbofuran	43 - 2701	ND
Chlorantraniliprole	54 - 2785	ND
Chlorpyrifos	41 - 2794	ND
Clofentezine	287 - 2705	ND
Diazinon	269 - 2762	ND
Dichlorvos	323 - 2716	ND
Dimethoate	39 - 2792	ND
E-Fenpyroximate	276 - 2768	ND
Etofenprox	40 - 2758	ND
Etoxazole	281 - 2762	ND
Fenoxycarb	43 - 2714	ND
Fipronil	71 - 2669	ND
Flonicamid	46 - 2804	ND
Fludioxonil	276 - 2806	ND
Hexythiazox	40 - 2779	ND
Imazalil	268 - 2724	ND
Imidacloprid	47 - 2779	ND
Kresoxim-methyl	42 - 2770	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	283 - 2716	ND
Metalaxyl	44 - 2711	ND
Methiocarb	39 - 2823	ND
Methomyl	42 - 2808	ND
MGK 264 1	217 - 1555	ND
MGK 264 2	114 - 1142	ND
Myclobutanil	39 - 2806	ND
Naled	45 - 2751	ND
Oxamyl	40 - 2804	ND
Paclobutrazol	44 - 2722	ND
Permethrin	270 - 2760	ND
Phosmet	44 - 2703	ND
Prophos	265 - 2815	ND
Propoxur	41 - 2710	ND
Pyridaben	268 - 2808	ND
Spinosad A	34 - 2199	ND
Spinosad D	46 - 502	ND
Spiromesifen	268 - 2813	ND
Spirotetramat	273 - 2673	ND
Spiroxamine 1	17 - 1185	ND
Spiroxamine 2	23 - 1583	ND
Tebuconazole	264 - 2711	ND
Thiacloprid	37 - 2782	ND
Thiamethoxam	37 - 2798	ND
Trifloxystrobin	44 - 2712	ND

Final Approval

PREPARED BY / DATE

Sawantha Smul

Sam Smith 13Apr2022 03:53:00 PM MDT

APPROVED BY / DATE

Daniel Weidensaul 13Apr2022 03:58:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/05897b72-5efd-4fdc-946f-419c02befdb9

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 USA 80021

Natural 4000mg Tincture - 220088

Batch ID or Lot Number: 220088	Test: Mycotoxins	Reported: 11Apr2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000201705	07Apr2022	N/A
	Method(s):	Received:	Status:
	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	07Apr2022	N/A

Dynamic Range (ppb)	Result (ppb)	Notes	
4.18 - 139.74	ND	N/A	N/A
1.16 - 35.86	ND		
1.23 - 35.43	ND		
1.13 - 35.43	ND		
1.23 - 34.40	ND		
and G2)	ND		
	4.18 - 139.74 1.16 - 35.86 1.23 - 35.43 1.13 - 35.43 1.23 - 34.40	4.18 - 139.74 ND 1.16 - 35.86 ND 1.23 - 35.43 ND 1.13 - 35.43 ND 1.23 - 34.40 ND	4.18 - 139.74 ND N/A 1.16 - 35.86 ND 1.23 - 35.43 ND 1.13 - 35.43 ND 1.23 - 34.40 ND

Final Approval

PREPARED BY / DATE



Hannah Wright 11Apr2022 11:54:00 AM MDT

APPROVED BY / DATE

Ryan Weems 11Apr2022 11:59:00 AM MDT



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Definitions

ND = None Detected (defined by dynamic range of the method)
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Cert #4329.02

Report Number: 3639431-0

Report Date: 18-Apr-2022

Report Status: Final

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch Westminster Colorado 80021

Sample Name:	Natural 4000mg Tincture - 220088	Eurofins Sample:	11624210
Project ID	ELIXINOL-20220406-0012	Receipt Date	11-Apr-2022
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	220088	Login Date	06-Apr-2022
Sample Serving Size	1 mL	Date Started	13-Apr-2022
.		Sampled	Sample results apply as received
		Number Composited	2
		Online Order	13484-17104CC2

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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