

Prepared for:

Elixinol LLC

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

5000 Natural Tincture - VH22-006

Batch ID or Lot Number: VH22-006	Test: Potency	Reported: 12May2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Solution	T000206160	10May2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	09May2022	Active

		Result		
LOD (mg/mL)	LOQ (mg/mL)	(mg/mL)	Result (mg/g)	Notes
0.071	0.207	2.276	2.40	Density =
0.065	0.189	ND	ND	0.948876g/mL
0.163	0.536	49.795	52.48	
0.167	0.549	ND	ND	
0.039	0.127	0.674	0.71	
0.070	0.229	ND	ND	
0.040	0.117	1.494	1.57	
0.168	0.491	ND	ND	
0.052	0.153	<loq< td=""><td>0.10</td><td></td></loq<>	0.10	
0.115	0.335	ND	ND	
0.200	0.585	ND	ND	
0.182	0.531	2.169	2.29	
0.161	0.470	ND	ND	
0.037	0.107	ND	ND	
0.142	0.415	ND	ND	
		56.506	59.55	•
		2.169	2.29	
		49.795	52.48	
	0.071 0.065 0.163 0.167 0.039 0.070 0.040 0.168 0.052 0.115 0.200 0.182 0.161 0.037	0.065 0.189 0.163 0.536 0.167 0.549 0.039 0.127 0.070 0.229 0.040 0.117 0.168 0.491 0.052 0.153 0.115 0.335 0.200 0.585 0.182 0.531 0.161 0.470 0.037 0.107	LOD (mg/mL) LOQ (mg/mL) (mg/mL) 0.071 0.207 2.276 0.065 0.189 ND 0.163 0.536 49.795 0.167 0.549 ND 0.039 0.127 0.674 0.070 0.229 ND 0.040 0.117 1.494 0.168 0.491 ND 0.052 0.153 <loq< td=""> 0.115 0.335 ND 0.200 0.585 ND 0.182 0.531 2.169 0.161 0.470 ND 0.037 0.107 ND 0.142 0.415 ND 56.506 2.169</loq<>	LOD (mg/mL) LOQ (mg/mL) (mg/mL) Result (mg/g) 0.071 0.207 2.276 2.40 0.065 0.189 ND ND 0.163 0.536 49.795 52.48 0.167 0.549 ND ND 0.039 0.127 0.674 0.71 0.070 0.229 ND ND 0.040 0.117 1.494 1.57 0.168 0.491 ND ND 0.052 0.153 <loq< td=""> 0.10 0.115 0.335 ND ND 0.200 0.585 ND ND 0.182 0.531 2.169 2.29 0.161 0.470 ND ND 0.037 0.107 ND ND 0.142 0.415 ND ND 56.506 59.55 2.169 2.29</loq<>

Final Approval

12May2022 04:17:00 PM MDT

PREPARED BY / DATE

Ryan Weems

APPROVED BY / DATE

Jacob Miller 12May2022 04:22:00 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)).

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.











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Prepared for:

Elixinol LLC

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

5000 Natural Tincture - VH22-006

Batch ID or Lot Number: VH22-006	Test:	Reported:	USDA License:
	Residual Solvents	11May2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000206164	10May2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	09May2022	Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	60 - 1195	ND	
Butanes (Isobutane, n-Butane)	117 - 2338	ND	
Methanol	46 - 915	ND	
Pentane	64 - 1273	ND	
Ethanol	64 - 1285	ND	
Acetone	73 - 1452	ND	
Isopropyl Alcohol	74 - 1481	ND	
Hexane	4 - 88	ND	
Ethyl Acetate	73 - 1464	ND	
Benzene	0.2 - 3.0	ND	
Heptanes	73 - 1455	ND	
Toluene	13 - 263	ND	
Xylenes (m,p,o-Xylenes)	95 - 1908	ND	

Final Approval



Jacob Miller 11May2022 04:39:00 PM MDT

Hannah Wright 11May2022 04:47:00 PM MDT



APPROVED BY / DATE

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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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Cert #4329.02

CDPHE Certified f8ec2c90c77d46029b727529e65061ba.1



Prepared for:

Elixinol LLC

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

5000 Natural Tincture - VH22-006

Batch ID or Lot Number: VH22-006	Test:	Reported:	USDA License:
	Heavy Metals	12May2022	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000206163	11May2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	09May2022	NA

Dynamic Range (ppm)	Result (ppm)	Notes	
0.05 - 4.62	ND		
0.05 - 4.65	ND		
0.04 - 4.28	ND		
0.03 - 3.28	ND		
	0.05 - 4.62 0.05 - 4.65 0.04 - 4.28	0.05 - 4.62 ND 0.05 - 4.65 ND 0.04 - 4.28 ND	0.05 - 4.62 ND 0.05 - 4.65 ND 0.04 - 4.28 ND

Final Approval



Kayla Phye 12May2022 02:52:00 PM MDT

Samantha Smoth

Sam Smith 12May2022 02:56:00 PM MDT



APPROVED BY / DATE

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Definitions

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

CDPHE Certified 0b74bfff53e9430ba2584b5e80853de3.1





Prepared for:

Elixinol LLC

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

5000 Natural Tincture - VH22-006

Batch ID or Lot Number: VH22-006	Test: Microbial Contaminants	Reported: 12May2022	USDA License: N/A	
Matrix:	Test ID:	Started:	Sampler ID:	
Finished Product	T000206162	09May2022	N/A	
	Method(s):	Received:	Status:	
	TM25 (qPCR) TM24, TM26, TM27	09May2022	Active	
	(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

Peret Tehn

Brett Hudson 12May2022 12:03:00 PM MDT

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Carly Baden

Carly Bader 12May2022 03:24:00 PM MDT



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APPROVED BY / DATE

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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 2d9d9702c62d4e399deb05289ef24b83.1



Prepared for:

Elixinol LLC

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

5000 Natural Tincture - VH22-006

Batch ID or Lot Number: VH22-006	Test: Pesticides	Reported: 12May2022	USDA License: NA	
Matrix: Concentrate	Test ID: T000206161	Started: 10May2022	Sampler ID: NA	
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 09May2022	Status: NA	

Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	262 - 2803	ND
Acephate	40 - 2774	ND
Acetamiprid	40 - 2750	ND
Azoxystrobin	46 - 2733	ND
Bifenazate	44 - 2768	ND
Boscalid	49 - 2825	ND
Carbaryl	42 - 2730	ND
Carbofuran	44 - 2708	ND
Chlorantraniliprole	50 - 2794	ND
Chlorpyrifos	42 - 2806	ND
Clofentezine	280 - 2751	ND
Diazinon	295 - 2773	ND
Dichlorvos	280 - 2747	ND
Dimethoate	42 - 2738	ND
E-Fenpyroximate	290 - 2748	ND
Etofenprox	43 - 2756	ND
Etoxazole	288 - 2744	ND
Fenoxycarb	43 - 2750	ND
Fipronil	39 - 2701	ND
Flonicamid	49 - 2737	ND
Fludioxonil	294 - 2770	ND
Hexythiazox	45 - 2754	ND
Imazalil	289 - 2784	ND
Imidacloprid	44 - 2763	ND
Kresoxim-methyl	56 - 2820	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	295 - 2716	ND
Metalaxyl	44 - 2747	ND
Methiocarb	42 - 2784	ND
Methomyl	40 - 2754	ND
MGK 264 1	172 - 1642	ND
MGK 264 2	116 - 1125	ND
Myclobutanil	48 - 2839	ND
Naled	49 - 2767	ND
Oxamyl	40 - 2763	ND
Paclobutrazol	42 - 2729	ND
Permethrin	289 - 2752	ND
Phosmet	46 - 2774	ND
Prophos	288 - 2780	ND
Propoxur	44 - 2720	ND
Pyridaben	275 - 2783	ND
Spinosad A	36 - 2251	ND
Spinosad D	48 - 510	ND
Spiromesifen	267 - 2787	ND
Spirotetramat	292 - 2679	ND
Spiroxamine 1	19 - 1198	ND
Spiroxamine 2	24 - 1555	ND
Tebuconazole	291 - 2779	ND
Thiacloprid	41 - 2746	ND
Thiamethoxam	42 - 2757	ND
Trifloxystrobin	44 - 2738	ND

Final Approval

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Daniel Weidensaul 12May2022 02:01:00 PM MDT

Samantha Smoll

APPROVED BY / DATE

Sam Smith 12May2022 02:08:00 PM MDT



PREPARED BY / DATE

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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
ppb = Parts Per Billion

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Prepared for:

Elixinol LLC

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

5000 Natural Tincture - VH22-006

Batch ID or Lot Number: VH22-006	Test: Mycotoxins	Reported: 11May2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000206166	10May2022	N/A
	Method(s):	Received:	Status:
	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	09May2022	Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes	
Ochratoxin A	3.23 - 126.37	ND	N/A	N/A
Aflatoxin B1	1.36 - 32.73	ND		
Aflatoxin B2	1.48 - 32.73	ND		
Aflatoxin G1	1.45 - 32.34	ND		
Aflatoxin G2	1.58 - 32.41	ND		
Total Aflatoxins (B1, B2, G1, and G2)		ND		

Final Approval

Ryan Weems 11May2022

PREPARED BY / DATE

02:21:00 PM MDT

APPROVED BY / DATE

Sam Smith 11May2022 02:24:00 PM MDT

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Definitions

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Report Number: 3674463-0

Report Date: 18-May-2022

Report Status: Final

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch Westminster Colorado 80021

Sample Name:	5000 Natural Tincture - VH22-006	Eurofins Sample:	11725379
Project ID	ELIXINOL-20220505-0016	Receipt Date	09-May-2022
PO Number	NA	Receipt Condition	Ambient temperature
Lot Number	VH22-006	Login Date	05-May-2022
Sample Serving Size	1 mL	Date Started	11-May-2022
.		Sampled	Sample results apply as received
		Online Order	13484-1736D6D2

AnalysisResultEnterobacteriaceae Plate Count *<10 CFU/g</td>Enterobacteriaceae<10 CFU/g</td>Glyphosate and AMPA<100 ng/g</td>AMPA<100 ng/g</td>

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





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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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