

Prepared for:

Elixinol LLC

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

5000 Natural Tincture - VH22-007

Batch ID or Lot Number: VH22-007	Test: Potency	Reported: 12May2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Solution	T000206172	10May2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	09May2022	Active

	Result				
Cannabinoids	LOD (mg/mL)	LOQ (mg/mL)	(mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.063	0.185	2.172	2.29	Density =
Cannabichromenic Acid (CBCA)	0.058	0.169	ND	ND	0.949805g/mL
Cannabidiol (CBD)	0.146	0.479	47.436	49.94	
Cannabidiolic Acid (CBDA)	0.149	0.491	ND	ND	
Cannabidivarin (CBDV)	0.034	0.113	0.649	0.68	
Cannabidivarinic Acid (CBDVA)	0.062	0.205	ND	ND	
Cannabigerol (CBG)	0.036	0.105	1.408	1.48	
Cannabigerolic Acid (CBGA)	0.150	0.439	ND	ND	
Cannabinol (CBN)	0.047	0.137	<loq< td=""><td>0.10</td><td></td></loq<>	0.10	
Cannabinolic Acid (CBNA)	0.103	0.299	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.179	0.523	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.163	0.475	2.085	2.20	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.144	0.421	ND	ND	
Tetrahydrocannabivarin (THCV)	0.033	0.095	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.127	0.371	ND	ND	
Total Cannabinoids			53.847	56.69	
Total Potential THC			2.085	2.20	
Total Potential CBD			47.436	49.94	

Final Approval

Ryan Weems 12May2022

PREPARED BY / DATE

04:17:00 PM MDT

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)).

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Prepared for:

Elixinol LLC

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

5000 Natural Tincture - VH22-007

Batch ID or Lot Number: VH22-007	Test:	Reported:	USDA License:
	Residual Solvents	11May2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000206176	10May2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	09May2022	Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	68 - 1364	ND	
Butanes (Isobutane, n-Butane)	133 - 2668	ND	
Methanol	52 - 1044	ND	-
Pentane	73 - 1453	ND	
Ethanol	73 - 1467	ND	-
Acetone	83 - 1657	ND	-
Isopropyl Alcohol	84 - 1690	ND	
Hexane	5 - 100	ND	-
Ethyl Acetate	84 - 1670	ND	-
Benzene	0.2 - 3.4	ND	
Heptanes	83 - 1660	ND	-
Toluene	15 - 301	ND	-
Xylenes (m,p,o-Xylenes)	109 - 2178	ND	

Final Approval



Jacob Miller 11May2022 04:39:00 PM MDT ASS

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 e2c5332f091646e2831fc1b6304af03e.1



Prepared for:

Elixinol LLC

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

5000 Natural Tincture - VH22-007

Batch ID or Lot Number: VH22-007	Test:	Reported:	USDA License:
	Heavy Metals	12May2022	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000206175	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 Smill

Sam Smith 12May2022 02:56:00 PM MDT



APPROVED BY / DATE

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Definitions

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Cert #4329.02

CDPHE Certified d6d951907c3c4cb899791aca58b2929b.1





Prepared for:

Elixinol LLC

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

5000 Natural Tincture - VH22-007

Batch ID or Lot Number: VH22-007	Test: Microbial Contaminants	Reported: 12May2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000206174	09May2022	N/A
	Method(s):	Received:	Status:
	TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorad Panel)	09May2022 do	Active

Microbial		Quantitation		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	<lloq< td=""><td>_</td></lloq<>	_	
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

Rest Certur

Brett Hudson 12May2022 12:03:00 PM MDT

Carly Baden

Carly Bader 12May2022 03:24:00 PM MDT



PREPARED BY / DATE

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/6c3b450e-91f4-41bc-a523-efd763d4b20a

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

5000 Natural Tincture - VH22-007

Batch ID or Lot Number: VH22-007	Test: Pesticides	Reported: 12May2022	USDA License: NA	
Matrix: Concentrate	Test ID: T000206173	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 - VH22-007

Batch ID or Lot Number: VH22-007	Test: Mycotoxins	Reported: 11May2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000206178	10May2022	N/A
	Method(s):	Received:	Status:
	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	09May2022	Active

Dynamic Range (ppb)	Result (ppb)	Notes	
3.30 - 129.03	ND	N/A	
1.38 - 33.42	ND		
1.52 - 33.42	ND		
1.48 - 33.02	ND		
1.61 - 33.09	ND		
, and G2)	ND		
	3.30 - 129.03 1.38 - 33.42 1.52 - 33.42 1.48 - 33.02 1.61 - 33.09	3.30 - 129.03 ND 1.38 - 33.42 ND 1.52 - 33.42 ND 1.48 - 33.02 ND 1.61 - 33.09 ND	3.30 - 129.03 ND N/A 1.38 - 33.42 ND 1.52 - 33.42 ND 1.48 - 33.02 ND 1.61 - 33.09 ND

Final Approval

Ryan Weems 11May2022 02:21:00 PM MDT

PREPARED BY / DATE

Sawantha Smoll

APPROVED BY / DATE

Sam Smith 11May2022 02:24:00 PM MDT



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Definitions

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Cert #4329.02

CDPHE Certified 4eb2a6e18582424c888c8d9719534405.1

Report Number: 3674464-0

Report Date: 18-May-2022

Report Status: Final

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch Westminster Colorado 80021

Sample Name:	5000 Natural Tincture - VH22-007	Eurofins Sample:	11725387
Project ID	ELIXINOL-20220505-0017	Receipt Date	09-May-2022
PO Number	NA	Receipt Condition	Ambient temperature
Lot Number	VH22-007	Login Date	05-May-2022
Sample Serving Size	1 mL	Date Started	11-May-2022
3		Sampled	Sample results apply as received
		Online Order	13484-1736D897

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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