

CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

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


Active Hemp Balm - A2477

Batch ID or Lot Number: A2477	Test: Potency	Reported: 16Jan2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000232929	Started: 16Jan2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 13Jan2023	Status: Active

Cannabinoids

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.006	0.018	0.069	0.69	
Cannabichromenic Acid (CBCA)	0.005	0.016	ND	ND	
Cannabidiol (CBD)	0.015	0.050	1.890	18.90	
Cannabidiolic Acid (CBDA)	0.016	0.052	ND	ND	
Cannabidivarin (CBDV)	0.004	0.012	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.007	0.021	ND	ND	
Cannabigerol (CBG)	0.003	0.010	0.031	0.31	
Cannabigerolic Acid (CBGA)	0.014	0.043	ND	ND	
Cannabinol (CBN)	0.004	0.013	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.009	0.029	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.016	0.051	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.015	0.046	0.090	0.90	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.013	0.041	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.009	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.012	0.036	ND	ND	
Total Cannabinoids			2.080	20.80	
Total Potential THC			0.090	0.90	
Total Potential CBD			1.890	18.90	

Final Approval



Sam Smith
16Jan2023
03:51:00 PM MST

PREPARED BY / DATE



Karen Winternheimer
16Jan2023
03:55:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/f6e69d7d-b150-44e7-86f4-8f94863beb3c>

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
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CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

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

Active Hemp Balm - A2477

Batch ID or Lot Number: A2477	Test: Residual Solvents	Reported: 16Jan2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000232933	Started: 13Jan2023	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 13Jan2023	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	99 - 1976	ND	
Butanes (Isobutane, n-Butane)	199 - 3972	ND	
Methanol	60 - 1202	ND	
Pentane	100 - 2003	ND	
Ethanol	103 - 2055	ND	
Acetone	99 - 1986	ND	
Isopropyl Alcohol	105 - 2106	ND	
Hexane	6 - 123	ND	
Ethyl Acetate	101 - 2023	ND	
Benzene	0.2 - 3.9	ND	
Heptanes	101 - 2025	ND	
Toluene	19 - 376	ND	
Xylenes (m,p,o-Xylenes)	139 - 2786	ND	

Final Approval


Sam Smith
16Jan2023
11:49:00 AM MST

PREPARED BY / DATE


Karen Winternheimer
16Jan2023
11:52:00 AM MST

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<https://results.botanacor.com/api/v1/coas/uuid/90ac188b-aa5b-46d9-80cd-6110e4d1a704>

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

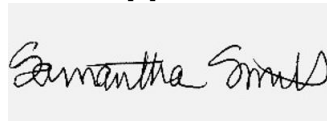
10170 Church Ranch Way, Ste 400
Westminster, CO USA 80021

Active Hemp Balm - A2477

Batch ID or Lot Number: A2477	Test: Heavy Metals	Reported: 19Jan2023	USDA License: NA
Matrix: Unit Co	Test ID: T000232932	Started: 18Jan2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 13Jan2023	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.54	ND	
Cadmium	0.04 - 4.38	ND	
Mercury	0.04 - 4.37	ND	
Lead	0.05 - 5.26	ND	

Final Approval



Sam Smith
19Jan2023
10:52:00 AM MST

PREPARED BY / DATE



Karen Winternheimer
19Jan2023
10:56:00 AM MST

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<https://results.botanacor.com/api/v1/coas/uuid/fe604667-ba96-4028-b79e-8059dce3ba6a>

Definitions

ND = None Detected (defined by dynamic range of the method)
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Prepared for:
Elixinol LLC

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


Active Hemp Balm - A2477

Batch ID or Lot Number: A2477	Test: Microbial Contaminants	Reported: 16Jan2023	USDA License: N/A
Matrix: Finished Product	Test ID: T000232931	Started: 13Jan2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 13Jan2023	Status: Active

Microbial Contaminants

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	<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



Brianne Maillot
16Jan2023
03:41:00 PM MST

PREPARED BY / DATE



Eden Thompson-Wright
16Jan2023
04:31:00 PM MST

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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Prepared for:
Elixinol LLC

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

Active Hemp Balm - A2477

Batch ID or Lot Number: A2477	Test: Pesticides	Reported: 03Feb2023	USDA License: NA
Matrix: Concentrate	Test ID: T000232930	Started: 01Feb2023	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 13Jan2023	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	292 - 2707	ND	Malathion	289 - 2718	ND
Acephate	45 - 2767	ND	Metalaxyl	44 - 2730	ND
Acetamiprid	44 - 2758	ND	Methiocarb	45 - 2709	ND
Azoxystrobin	43 - 2747	ND	Methomyl	41 - 2762	ND
Bifenazate	39 - 2732	ND	MGK 264 1	168 - 1637	ND
Boscalid	35 - 2700	ND	MGK 264 2	120 - 1139	ND
Carbaryl	45 - 2731	ND	Myclobutanil	43 - 2701	ND
Carbofuran	44 - 2717	ND	Naled	42 - 2772	ND
Chlorantraniliprole	43 - 2666	ND	Oxamyl	43 - 2764	ND
Chlorpyrifos	50 - 2713	<LOQ	Pacllobutrazol	40 - 2735	ND
Clofentezine	270 - 2767	ND	Permethrin	280 - 2765	ND
Diazinon	276 - 2752	ND	Phosmet	40 - 2744	ND
Dichlorvos	278 - 2771	ND	Prophos	293 - 2662	ND
Dimethoate	41 - 2761	ND	Propoxur	42 - 2724	ND
E-Fenpyroximate	289 - 2734	ND	Pyridaben	293 - 2751	ND
Etofenprox	42 - 2774	ND	Spinosad A	35 - 2244	ND
Etoxazole	298 - 2712	ND	Spinosad D	49 - 498	ND
Fenoxycarb	42 - 2767	ND	Spiromesifen	281 - 2750	ND
Fipronil	51 - 2704	ND	Spirotetramat	272 - 2754	ND
Flonicamid	50 - 2802	ND	Spiroxamine 1	20 - 1148	ND
Fludioxonil	288 - 2756	ND	Spiroxamine 2	21 - 1557	ND
Hexythiazox	41 - 2761	ND	Tebuconazole	296 - 2732	ND
Imazalil	263 - 2758	ND	Thiacloprid	42 - 2746	ND
Imidacloprid	44 - 2755	ND	Thiamethoxam	42 - 2770	ND
Kresoxim-methyl	41 - 2798	ND	Trifloxystrobin	44 - 2749	ND

Final Approval



Karen Winternheimer
03Feb2023
09:29:00 AM MST

PREPARED BY / DATE



Sam Smith
03Feb2023
09:39:00 AM MST

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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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CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC


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


Active Hemp Balm - A2477

Batch ID or Lot Number: A2477	Test: Mycotoxins	Reported: 19Jan2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000232934	Started: 18Jan2023	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 13Jan2023	Status: Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.50 - 132.52	ND	N/A
Aflatoxin B1	1.12 - 33.25	ND	
Aflatoxin B2	1.05 - 33.45	ND	
Aflatoxin G1	1.15 - 33.52	ND	
Aflatoxin G2	1.08 - 33.42	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
19Jan2023
07:43:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
19Jan2023
07:44:00 AM MST
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uiid/d40dd2a1-d309-4cbf-b2a0-631c2261e2d7>

Definitions
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Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Sample Name:	Active Hemp Balm - A2477	Eurofins Sample:	12536789
Project ID	ELIXINOL-20230111-0001	Receipt Date	26-Jan-2023
PO Number	PO-0021	Receipt Condition	Ambient temperature
Lot Number	A2477	Login Date	11-Jan-2023
Sample Serving Size	1 mL	Date Started	26-Jan-2023
Description	Active Hemp Balm - A2477	Sampled	Sample results apply as received
		Online Order	901-2023-E001872

Analysis

Result

Density by Gravimetric Analysis

Density 0.859 g/mL

Enterobacteriaceae Plate Count *

Enterobacteriaceae <10 CFU/g

Glyphosate and AMPA

Glyphosate <100 ng/g

AMPA <100 ng/g

Method References

Testing Location

Density by Gravimetric Analysis (SPGP_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

NIST Handbook 133 - Checking the Net Contents of Packaged Goods, 2015 Edition (Modified)

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

Internally developed method.

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

* This analysis or component is not ISO accredited.

Printed: 08-Feb-2023 10:21 am

Page 1 of 2

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Elixinol, LLC

10170 Church Ranch

Westminster Colorado 80021 United States

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