

CERTIFICATE OF ANALYSIS

Prepared for:

Elixinol LLC10170 Church Ranch Way, Ste 400
Westminster, CO USA 80021**Adaptogen Capsules - 22033101-01**

Batch ID or Lot Number: 22033101-01	Test: Potency	Reported: 09Aug2022	USDA License: N/A
Matrix: Unit	Test ID: T000216741	Started: 06Aug2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 04Aug2022	Status: Active

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.050	0.177	0.981	1.25	# of Servings = 1 Sample Weight=0.784g
Cannabichromenic Acid (CBCA)	0.046	0.162	ND	ND	
Cannabidiol (CBD)	0.155	0.455	18.362	23.43	
Cannabidiolic Acid (CBDA)	0.159	0.466	ND	ND	
Cannabidivarin (CBDV)	0.037	0.107	<LOQ	0.08	
Cannabidivarinic Acid (CBDVA)	0.066	0.194	ND	ND	
Cannabigerol (CBG)	0.028	0.101	0.241	0.31	
Cannabigerolic Acid (CBGA)	0.119	0.421	ND	ND	
Cannabinol (CBN)	0.037	0.131	0.261	0.33	
Cannabinolic Acid (CBNA)	0.081	0.287	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.141	0.502	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.128	0.456	0.162	0.21	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.114	0.404	ND	ND	
Tetrahydrocannabivarin (THCV)	0.026	0.092	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.100	0.356	ND	ND	
Total Cannabinoids			20.073	25.61	
Total Potential THC			0.162	0.21	
Total Potential CBD			18.362	23.43	

Final ApprovalKaren Winternheimer
09Aug2022
12:47:00 PM MDT

PREPARED BY / DATE

Daniel Weidensaul
09Aug2022
12:52:00 PM MDT

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/b1e4a39f-d6f3-4195-b99c-a8a25dd81f0c>**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 LLC10170 Church Ranch Way, Ste 400
Westminster, CO USA 80021**Adaptogen Capsules - 22033101-01**

Batch ID or Lot Number: 22033101-01	Test: Residual Solvents	Reported: 08Aug2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000216745	Started: 08Aug2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 04Aug2022	Status: Active

Residual Solvents

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	68 - 1359	ND	
Butanes (Isobutane, n-Butane)	145 - 2898	ND	
Methanol	52 - 1042	ND	
Pentane	81 - 1614	ND	
Ethanol	77 - 1540	905	
Acetone	83 - 1656	ND	
Isopropyl Alcohol	82 - 1639	ND	
Hexane	5 - 101	ND	
Ethyl Acetate	84 - 1688	ND	
Benzene	0.2 - 3.4	ND	
Heptanes	86 - 1725	ND	
Toluene	15 - 303	ND	
Xylenes (m,p,o-Xylenes)	111 - 2213	ND	

Final ApprovalSam Smith
08Aug2022
04:36:00 PM MDT

PREPARED BY / DATE

Jacob Miller
08Aug2022
04:38:00 PM MDT

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/6b4c757d-1843-4d1a-95b1-cdae63a09696>**Definitions**ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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.



Cert #4329.02



CDPHE Certified

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CERTIFICATE OF ANALYSIS

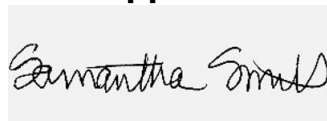
Prepared for:

Elixinol LLC10170 Church Ranch Way, Ste 400
Westminster, CO USA 80021**Adaptogen Capsules - 22033101-01**

Batch ID or Lot Number: 22033101-01	Test: Heavy Metals	Reported: 09Aug2022	USDA License: NA
Matrix: Unit Co	Test ID: T000216744	Started: 08Aug2022	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 04Aug2022	Status: NA

Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.49	ND	
Cadmium	0.04 - 4.42	ND	
Mercury	0.04 - 4.30	ND	
Lead	0.04 - 4.48	ND	

Final ApprovalSam Smith
09Aug2022
01:45:00 PM MDT

PREPARED BY / DATE

Daniel Weidensaul
09Aug2022
01:47:00 PM MDT

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/0bf68304-e2f0-401d-b972-ac27982eac4d>**Definitions**ND = None Detected (defined by dynamic range of the method)
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CERTIFICATE OF ANALYSIS

Prepared for:

Elixinol LLC

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

Adaptogen Capsules - 22033101-01


Batch ID or Lot Number: 22033101-01	Test: Microbial Contaminants	Reported: 08Aug2022	USDA License: N/A
Matrix: Finished Product	Test ID: T000216743	Started: 04Aug2022	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 04Aug2022	Status: Active

Microbial

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	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	<LLOQ	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Brianne Maillot
07Aug2022
11:20:00 AM MDT

PREPARED BY / DATE



Eden Thompson-Wright
08Aug2022
09:38:00 AM MDT

APPROVED BY / DATE


<https://results.botanacor.com/api/v1/coas/uuid/dc792bc5-ff44-4312-ad61-382b6f2a5515>

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

Adaptogen Capsules - 22033101-01

Batch ID or Lot Number: 22033101-01	Test: Pesticides	Reported: 09Aug2022	USDA License: NA
Matrix: Concentrate	Test ID: T000216742	Started: 06Aug2022	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 04Aug2022	Status: NA

Pesticides

	Dynamic Range (ppb)	Result (ppb)
Abamectin	280 - 2582	ND
Acephate	42 - 2840	ND
Acetamiprid	41 - 2814	ND
Azoxystrobin	41 - 2733	ND
Bifenazate	42 - 2722	ND
Boscalid	42 - 2764	ND
Carbaryl	40 - 2700	ND
Carbofuran	40 - 2696	ND
Chlorantraniliprole	50 - 2665	ND
Chlorpyrifos	53 - 2782	ND
Clofentezine	291 - 2839	ND
Diazinon	279 - 2778	ND
Dichlorvos	269 - 2884	ND
Dimethoate	42 - 2843	ND
E-Fenpyroximate	288 - 2691	ND
Etofenprox	43 - 2706	ND
Etoxazole	290 - 2696	ND
Fenoxycarb	42 - 2719	ND
Fipronil	54 - 2671	ND
Flonicamid	49 - 2836	ND
Fludioxonil	303 - 2785	ND
Hexythiazox	43 - 2703	ND
Imazalil	279 - 2761	ND
Imidacloprid	44 - 2814	56
Kresoxim-methyl	49 - 2789	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	296 - 2728	ND
Metalaxyl	43 - 2742	ND
Methiocarb	41 - 2721	ND
Methomyl	42 - 2836	ND
MGK 264 1	160 - 1584	ND
MGK 264 2	117 - 1108	ND
Myclobutanil	44 - 2732	ND
Naled	44 - 2693	ND
Oxamyl	40 - 2835	ND
Paclobutrazol	44 - 2712	ND
Permethrin	292 - 2763	ND
Phosmet	39 - 2706	ND
Prophos	300 - 2798	ND
Propoxur	41 - 2706	ND
Pyridaben	292 - 2702	ND
Spinosad A	35 - 2196	ND
Spinosad D	54 - 481	ND
Spiromesifen	272 - 2714	ND
Spirotetramat	287 - 2677	ND
Spiroxamine 1	19 - 1151	ND
Spiroxamine 2	24 - 1547	ND
Tebuconazole	282 - 2753	ND
Thiacloprid	40 - 2816	ND
Thiamethoxam	42 - 2835	ND
Trifloxystrobin	43 - 2741	ND

Final Approval



Daniel Weidensaul
09Aug2022
01:38:00 PM MDT



Karen Winternheimer
09Aug2022
01:39:00 PM MDT



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/186c79fd-ad3c-450b-9d3a-599a526fd163>

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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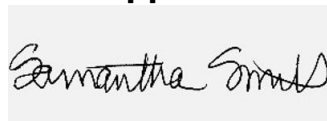
Prepared for:

Elixinol LLC10170 Church Ranch Way, Ste 400
Westminster, CO USA 80021**Adaptogen Capsules - 22033101-01**

Batch ID or Lot Number: 22033101-01	Test: Mycotoxins	Reported: 11Aug2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000216746	Started: 10Aug2022	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 04Aug2022	Status: Active

Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.04 - 130.16	ND	N/A
Aflatoxin B1	2.39 - 32.15	ND	
Aflatoxin B2	1.05 - 32.98	ND	
Aflatoxin G1	1.09 - 33.11	ND	
Aflatoxin G2	1.18 - 33.30	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final ApprovalSam Smith
11Aug2022
10:04:00 AM MDT

PREPARED BY / DATE

Jacob Miller
11Aug2022
10:08:00 AM MDT

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/5a5ef52e-64c9-4213-8c94-4c22fbb44c30>**Definitions**ND = None Detected (defined by dynamic range of the method)
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CDPHE Certified

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Certificate of Analysis

Elixinol, LLC

10170 Church Ranch

Westminster Colorado 80021 United States

Sample Name:	Adaptogen Capsules - 22033101-01	Eurofins Sample:	12028100
Project ID	ELIXINOL-20220802-0029	Receipt Date	04-Aug-2022
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	22033101-01	Login Date	02-Aug-2022
Sample Serving Size	1 Piece	Date Started	05-Aug-2022
		Sampled	Sample results apply as received
		Online Order	13484-17AC09C6

Analysis

Result

Calculated Sample Weight *

Entity Weight	0.8600 g
Entity Weight	0.8152 g
Entity Fill Weight	0.5771 g

Enterobacteriaceae Plate Count *

Enterobacteriaceae	<10 CFU/g
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Glyphosate and AMPA

Glyphosate	<100 ng/g
AMPA	<100 ng/g

Method References

Testing Location

Calculated Sample Weight (PREP)

Food Integrity Innovation-Madison
6304 Ronald Reagan Ave Madison, WI 53704 USA

Calculated Sample Weight (PREP_BREA)

Food Integrity Innovation-Brea
2951 Saturn Street, Unit C Brea, CA 92821 USA

Determination of Total Ginsenosides by UPLC (OC_GINS_S)

Food Integrity Innovation-Brea
2951 Saturn Street, Unit C Brea, CA 92821 USA

Internally Developed Method

Determination of Total Rosavins and Salidroside by UPLC (OC_ROSV_S)

Food Integrity Innovation-Brea
2951 Saturn Street, Unit C Brea, CA 92821 USA

Internally Developed Method

* This analysis or component is not ISO accredited.

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Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

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-Brea

Jason Mulligan - President Eurofins Botanical
Testing Brea

Eurofins Food Chemistry Testing US, Inc.
2951 Saturn Street
Unit C
Brea CA 92821
800-675-8375

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

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* This analysis or component is not ISO accredited.

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CBD Adaptogen

Reishi Input Statement

Total Reishi in blend is 5.41 kg / 190.96 kg (Total Blend) = 2.83%. Input weight verified as batch record attached below:

RECORD EACH INGREDIENT / EXCIPIENT AND AMOUNT WEIGHED ON THE TABLE BELOW AND CALCULATE THE TOTAL WEIGHT.					
INGREDIENT / EXCIPIENT DESCRIPTION	ITEM CODE	LOT #	AMOUNT WEIGHED (Kg)	WEIGHED BY (Initial)	VERIFIED BY (Initial)
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	BP	SH
Hemp Oil 10%	R1181	1-10A-830-02032	47.25	BP	SH
Ginkgo Extract	R1178	GBF210901	32.45	BP	SH
Panax Ginseng	R1179	CRSA-C-A10292	16.91	BP	SH
5 Rhodiola rosea extract	R1180	CHTT-C-A102849	11.5	BP	SH
Reishi GMT	R1142	SY-24AG51TU	5.41	BP	SH
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	BP	SH
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	BP	SH
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	BP	SH
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	BP	SH
TOTAL WEIGHT OF INGREDIENTS AND EXCIPIENTS:			190.96	DATE: 07/29/22	
COMPLETED BY: BP DATE: 07/29/22 REVIEWED BY: SH DATE: 7/29/22					

The Average weight of the capsules comes to 857.2 minus the avg weight of an empty capsule – 128.7mg = Actual avg fill weight of the capsules – 728.5mg X 2.83% = 20.62mg or 41.23mg of Reishi for two capsules.

Approved by: Y. Han Date: 09/21/2022
Quality Control



Certificate of Analysis

Unique Encapsulation Technology

9 Lenel Road

Landing, NJ 07850

Sample Information

Product Name	Product Lot#	MSB Control#	Date Received	PO.#	Storage Condition
Adapptogen Complex Capsules	22033101	08032022-015	08/03/2022	NA	RM

Analytes and Results

Analyte Name	Test Method	Estimated Level	Result
CBD	STM-3.164 (HPLC-UV)	NA	17.12 mg/cap
THC	STM-3.164 (HPLC-UV)	NA	0.19 mg/cap
Ginsenosides	STM-3.1 (HPLC-UV)	3.3 mg/cap	3.84 mg/cap
Rosavins	STM-3.39 (HPLC-UV)	1.84 mg/cap	2.27 mg/cap
Salidroside	STM-3.39 (HPLC-UV)	0.88 mg/cap	1.26 mg/cap
Ginkgo Flavone Glycosides	STM-3.2 (HPLC-UV)	29.54 mg/cap	33.9 mg/cap
Total Terpene Lactones	STM-3.2 (GC-FID)	8.6 mg/cap	9.7 mg/cap

Note: This report was revised with Result for Ginsenosides, Ginkgo Flavone Glycosides and Total Terpene Lactones updated

Lab Director
09/12/2022

Date Completed
09/12/2022

Note: These results apply only to the samples received and tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of MS Bioanalytical.