

Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

Prepared for: Elixinol LLC

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

Batch ID or Lot Number:	Test:	Reported:	USDA License:
22033101-01	Potency	09Aug2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000216741	06Aug2022	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
Cannabichromenic Acid (CBCA)	0.046	0.162	ND	ND	Sample
Cannabidiol (CBD)	0.155	0.455	18.362	23.43	Weight=0.784g
Cannabidiolic Acid (CBDA)	0.159	0.466	ND	ND	
Cannabidivarin (CBDV)	0.037	0.107	<loq< td=""><td>0.08</td><td></td></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 Approval

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PREPARED BY / DATE

Karen Winternheimer 09Aug2022 12:47:00 PM MDT

APPROVED BY / DATE

Daniel Weidensaul 09Aug2022 12:52:00 PM MDT



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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Adaptogen Capsules - 22033101-01

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

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	0
Ethanol	77 - 1540	905	
Acetone	83 - 1656	ND	
Isopropyl Alcohol	82 - 1639	ND	0
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	0

Final Approval

PREPARED BY / DATE

Samantha Smo

Sam Smith 08Aug2022 04:36:00 PM MDT

APPROVED BY / DATE

Jacob Miller 08Aug2022 04:38:00 PM MDT



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

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Batch ID or Lot Number:	Test:	Reported:	USDA License:
22033101-01	Heavy Metals	09Aug2022	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000216744	08Aug2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	04Aug2022	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	0

Final Approval

Samantha Smo

09Aug2022 01:45:00 PM MDT

Sam Smith

PREPARED BY / DATE

Januel Westers

APPROVED BY / DATE

Daniel Weidensaul 09Aug2022 01:47:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/0bf68304-e2f0-401d-b972-ac27982eac4d

Definitions

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CERTIFICATE OF ANALYSIS

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

Batch ID or Lot Number: 22033101-01	Test: Microbial Conta	aminants	Reported: 08Aug2022		USDA License: N/A	
Matrix:	Test ID:		Started:		Sampler ID:	
Finished Product	T000216743		04Aug2022		N/A	
	Method(s):		Received:		Status:	
TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorad Panel)		04Aug2022 o		Active		
Microbial			0			
Contaminants	Method	LOD	Quantitation Range	Result	Notes	
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and	
Salmonella	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	— foreign 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	<lloq< td=""><td></td></lloq<>		
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected		

Final Approval

Buanne Maillot

PREPARED BY / DATE

Brianne Maillot 07Aug2022 11:20:00 AM MDT

Eden Thompson

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



Definitions

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

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: $10^2 = 100 \text{ CFU}$, $10^3 = 1,000 \text{ CFU}$, $10^4 = 10,000 \text{ CFU}$, $10^5 = 100,000 \text{ CFU}$ CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection

APPROVED BY / DATE

ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation STEC = Shiga Toxin-Producing E. coli

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

Pesticides	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	280 - 2582	ND	Malathion	296 - 2728	ND
Acephate	42 - 2840	ND	Metalaxyl	43 - 2742	ND
Acetamiprid	41 - 2814	ND	Methiocarb	41 - 2721	ND
Azoxystrobin	41 - 2733	ND	Methomyl	42 - 2836	ND
Bifenazate	42 - 2722	ND	MGK 264 1	160 - 1584	ND
Boscalid	42 - 2764	ND	MGK 264 2	117 - 1108	ND
Carbaryl	40 - 2700	ND	Myclobutanil	44 - 2732	ND
Carbofuran	40 - 2696	ND	Naled	44 - 2693	ND
Chlorantraniliprole	50 - 2665	ND	Oxamyl	40 - 2835	ND
Chlorpyrifos	53 - 2782	ND	Paclobutrazol	44 - 2712	ND
Clofentezine	291 - 2839	ND	Permethrin	292 - 2763	ND
Diazinon	279 - 2778	ND	Phosmet	39 - 2706	ND
Dichlorvos	269 - 2884	ND	Prophos	300 - 2798	ND
Dimethoate	42 - 2843	ND	Propoxur	41 - 2706	ND
E-Fenpyroximate	288 - 2691	ND	Pyridaben	292 - 2702	ND
Etofenprox	43 - 2706	ND	Spinosad A	35 - 2196	ND
Etoxazole	290 - 2696	ND	Spinosad D	54 - 481	ND
Fenoxycarb	42 - 2719	ND	Spiromesifen	272 - 2714	ND
Fipronil	54 - 2671	ND	Spirotetramat	287 - 2677	ND
Flonicamid	49 - 2836	ND	Spiroxamine 1	19 - 1151	ND
Fludioxonil	303 - 2785	ND	Spiroxamine 2	24 - 1547	ND
Hexythiazox	43 - 2703	ND	Tebuconazole	282 - 2753	ND
Imazalil	279 - 2761	ND	Thiacloprid	40 - 2816	ND
Imidacloprid	44 - 2814	56	Thiamethoxam	42 - 2835	ND
Kresoxim-methyl	49 - 2789	ND	Trifloxystrobin	43 - 2741	ND

Final Approval

PREPARED BY / DATE

Danuel Ward

Daniel Weidensaul 09Aug2022 01:38:00 PM MDT

APPROVED BY / DATE

Karen Winternheimer 09Aug2022 01:39:00 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 ppb = Parts Per Billion

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

Batch ID or Lot Number:	Test:	Reported:	USDA License:	
22033101-01	Mycotoxins	11Aug2022	N/A	
Matrix:	Test ID:	Started:	Sampler ID:	
Concentrate	T000216746	10Aug2022	N/A	
	Method(s):	Received:	Status:	
	TM18 (UHPLC-QQQ LCMS/MS):	04Aug2022	Active	
	Mycotoxins			
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		
Fotal Aflatoxins (B1, B2, G1, and	G2)	ND		

Final Approval

Samantha Sm

PREPARED BY / DATE

Sam Smith 11Aug2022 10:04:00 AM MDT

APPROVED BY / DATE

Jacob Miller 11Aug2022 10:08:00 AM MDT



https://results.botanacor.com/api/v1/coas/uuid/5a5ef52e-64c9-4213-8c94-4c22fbb44c30

Definitions

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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 Enterobacteriaceae			
	9		<10 CFU/g
Enterobacteriaceae	9		-
Enterobacteriaceae Glyphosate and AM	9		<100 ng/g
Enterobacteriaceae Glyphosate and AM Glyphosate	9		-
Enterobacteriaceae Glyphosate and AM Glyphosate AMPA	9		<100 ng/g
Enterobacteriaceae Glyphosate and AM Glyphosate AMPA Method References	e IPA		<100 ng/g <100 ng/g
Enterobacteriaceae Glyphosate and AM Glyphosate AMPA Method References Calculated Sample We	e IPA sight (PREP)		<100 ng/g <100 ng/g Testing Location Food Integrity Innovation-Madison
Enterobacteriaceae Glyphosate and AM Glyphosate AMPA Method References Calculated Sample We Calculated Sample We	e IPA sight (PREP)		<100 ng/g <100 ng/g Testing Location Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA Food Integrity Innovation-Brea
Enterobacteriaceae Glyphosate and AM Glyphosate AMPA Method References Calculated Sample We Calculated Sample We	e IPA sight (PREP) sight (PREP_BREA) Ginsenosides by UPLC (OC_GINS_S)		<100 ng/g <100 ng/g Testing Location Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA Food Integrity Innovation-Brea 2951 Saturn Street, Unit C Brea, CA 92821 USA Food Integrity Innovation-Brea
Enterobacteriaceae Glyphosate and AM Glyphosate AMPA Method References Calculated Sample We Calculated Sample We Determination of Total Internally Developed M	e IPA sight (PREP) sight (PREP_BREA) Ginsenosides by UPLC (OC_GINS_S)		<100 ng/g <100 ng/g Testing Location Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA Food Integrity Innovation-Brea 2951 Saturn Street, Unit C Brea, CA 92821 USA Food Integrity Innovation-Brea



Certificate of Analysis

Elixinol, LLC

10170 Church Ranch Westminster Colorado 80021 United States

Method References

Enterobacteriaceae Plate Count (EBPC)

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)

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)

Food Integrity Innovation-Brea

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

Food Integrity Innovation-Madison

Eurofins Food Chemistry Testing Madison, Inc. 6304 Ronald Reagan Ave Madison WI 53704 800-675-8375

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.

EML New Berlin 2345 S 170th St New Berlin, WI 53151 USA

Testing Location

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Released on Behalf of Eurofins by

Jason Mulligan - President Eurofins Botanical Testing Brea

Edward Ladwig - President Eurofins Food Chemistry Testing Madison



2918.01



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:

	INGREDIENT / EXCIPIENT DESCRIPTION	ITEM CODE	LOT #	AMOUNT WEIGHED (Kg)	WEIGHED BY (initial)	VERIFIED BY (initial)
3	the sector of th	5.4.0.2	and the second second	The state	A Line	-
H	empoil lor.	R1181	1-10A-830-02032	47.25	BI	SH
12	into Exprest	R1178	GBE210901	32.45	BP	SH
Pe	mex Ginseng	R1179	CR54-C-A10292	16.91	BP	54
R	hodialy gosed extract	R1180	CHTT-C-A 102849	11.5	BP	SH .
	eishi GMT	R1142	SY-24AGSITU	5.41	BP	54
-		an dente de	and a starting			
	/					
			/			
			/			
	TOT	AL WEIGHT OF	INGREDIENTS AND EXCIPIENTS:	140.96	DATE:07 12	9/22
		/				
1	TED BY: BP	DATE: 07/24	REVIEWED BY	11	DATE: 7	422

The Average wight 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:

Date: _____09/21/2022_____ **Quality Control**



Certificate of Analysis

Unique Encapsulation Technology

9 Lenel Road

Landing, NJ 07850

Sample Information							
Product Name	Product Lot#	MS	B Control#	Date	Received	PO.#	Storage Condition
Adapptogen Complex Capsules	22033101	080	32022-015	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/c	ap	
THC	STM-3.164 (HPLC-UV)	NA		0.19 mg/ca	ıp	
Ginsenosides	STM-3.1 (HPLC-UV)		3.3 mg/cap		3.84 mg/ca	ıp	
Rosavins	STM-3.39 (HPLC-UV)		1.84 mg/cap		2.27 mg/ca	ıp	
Salidroside	STM-3.39 (HPLC-UV)		0.88 mg/cap		1.26 mg/ca	p	
Ginkgo Flavone Glycosides	STM-3.2 (HPLC-UV)		29.54 mg/cap)	33.9 mg/ca	p	
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

Zeharleli

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.