

Prepared for:

Elixinol LLC

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

Unwind Delta 9 Tinc
EVG.ELIX.750150MFSOD9BO.0038

Batch ID or Lot Number: EVG.ELIX.750150MFSOD9BO.0038	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 4
Reported: 10Jul2023	Started: 07Jul2023	Received: 07Jul2023	

Mycotoxins - Colorado Compliance

Test ID: T000243891

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.49 - 132.63	ND	N/A
Aflatoxin B1	0.97 - 32.92	ND	
Aflatoxin B2	0.94 - 33.12	ND	
Aflatoxin G1	1.10 - 32.73	ND	
Aflatoxin G2	0.94 - 33.05	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
10Jul2023
09:01:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
10Jul2023
09:03:00 AM MDT
APPROVED BY / DATE

Microbial Contaminants - Colorado Compliance

Test ID: T000243888

Methods: TM25 (qPCR) TM24, TM26,

TM27 (Culture Plating): Microbial

(Colorado Panel)

	Method	LOD	Quantitation 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	
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


Eden Thompson-Wright
10Jul2023
04:31:00 PM MDT
PREPARED BY / DATE


Brett Hudson
10Jul2023
04:52:00 PM MDT
APPROVED BY / DATE

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Heavy Metals - Colorado Compliance

Test ID: T000243889

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.27	ND	
Cadmium	0.04 - 4.39	ND	
Mercury	0.04 - 4.47	ND	
Lead	0.04 - 4.47	ND	

Final Approval


Sam Smith
11Jul2023
10:51:00 AM MDT
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Karen Winternheimer
11Jul2023
10:53:00 AM MDT
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Cannabinoids - Colorado Compliance

Test ID: T000243886

Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.067	0.213	1.125	1.19	Density = 0.942688g/mL
Cannabichromenic Acid (CBCA)	0.061	0.195	ND	ND	
Cannabidiol (CBD)	0.201	0.542	15.047	15.96	
Cannabidiolic Acid (CBDA)	0.206	0.556	ND	ND	
Cannabidivarin (CBDV)	0.048	0.128	0.672	0.71	
Cannabidivarinic Acid (CBDVA)	0.086	0.232	ND	ND	
Cannabigerol (CBG)	0.038	0.121	0.536	0.57	
Cannabigerolic Acid (CBGA)	0.158	0.505	ND	ND	
Cannabinol (CBN)	0.049	0.158	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.108	0.345	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.188	0.602	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.171	0.547	2.849	3.02	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.152	0.484	ND	ND	
Tetrahydrocannabivarin (THCV)	0.034	0.110	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.134	0.427	ND	ND	
Total Cannabinoids			20.229	21.45	
Total Potential THC			2.849	3.02	
Total Potential CBD			15.047	15.96	

Final Approval


Sam Smith
12Jul2023
10:27:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
12Jul2023
10:35:00 AM MDT
APPROVED BY / DATE

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Density Analysis

Test ID: T000243890

Methods: TL-SOP-0034 (Gravimetric) **Result**

Notes

Density	0.943 g/ml	Free from visual mold, mildew, and foreign matter N/A
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Final Approval

 Sam Smith
12Jul2023
09:41:00 AM MDT

PREPARED BY / DATE

 Karen Winternheimer
12Jul2023
10:14:00 AM MDT

APPROVED BY / DATE

Pesticides

Test ID: T000243887

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	254 - 2710	ND		Malathion	298 - 2762	ND
Acephate	44 - 2724	ND		Metalaxyl	40 - 2764	ND
Acetamiprid	42 - 2716	ND		Methiocarb	42 - 2806	ND
Azoxystrobin	44 - 2756	ND		Methomyl	42 - 2753	ND
Bifenazate	40 - 2754	ND		MGK 264 1	170 - 1665	ND
Boscalid	45 - 2817	ND		MGK 264 2	110 - 1056	ND
Carbaryl	40 - 2706	ND		Myclobutanil	40 - 2854	ND
Carbofuran	43 - 2709	ND		Naled	45 - 2760	ND
Chlorantraniliprole	47 - 2839	ND		Oxamyl	42 - 2745	ND
Chlorpyrifos	36 - 2768	ND		Paclobutrazol	42 - 2731	ND
Clofentezine	285 - 2782	ND		Permethrin	293 - 2713	ND
Diazinon	279 - 2756	ND		Phosmet	43 - 2744	ND
Dichlorvos	279 - 2771	ND		Prophos	282 - 2776	ND
Dimethoate	42 - 2719	ND		Propoxur	43 - 2728	ND
E-Fenpyroximate	288 - 2796	ND		Pyridaben	294 - 2751	ND
Etofenprox	43 - 2727	ND		Spinosad A	32 - 2082	ND
Etoxazole	297 - 2746	ND		Spinosad D	64 - 680	ND
Fenoxycarb	12 - 2794	ND		Spiromesifen	277 - 2756	ND
Fipronil	65 - 2712	ND		Spirotetramat	280 - 2803	ND
Flonicamid	51 - 2752	ND		Spiroxamine 1	16 - 1215	ND
Fludioxonil	300 - 2843	ND		Spiroxamine 2	21 - 1596	ND
Hexythiazox	41 - 2755	ND		Tebuconazole	289 - 2740	ND
Imazalil	288 - 2795	ND		Thiacloprid	42 - 2707	ND
Imidacloprid	43 - 2793	ND		Thiamethoxam	43 - 2760	ND
Kresoxim-methyl	39 - 2782	ND		Trifloxystrobin	43 - 2714	ND

Final Approval

 Karen Winternheimer
13Jul2023
12:43:00 PM MDT

PREPARED BY / DATE

 Sam Smith
13Jul2023
12:45:00 PM MDT

APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/49507751-0fe4-430a-a1ef-20ada0227761>

Definitions

LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (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)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa * (0.877)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. 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 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 100,000 CFU.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



Cert #4329.02
495077510fe4430aa1ef20ada0227761.1

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Sample Name:	Unwind Delta 9 Tinc EVG.ELIX.750150 MFSOD9BO.0038	Eurofins Sample:	12925042
Project ID	ELIXINOL-20230511-0010	Receipt Date	11-Jul-2023
PO Number	PO-0038	Receipt Condition	Ambient temperature
Lot Number	EVG.ELIX.750150MFSOD9BO.0038	Login Date	11-May-2023
Sample Serving Size	1 mL	Date Started	11-Jul-2023
		Sampled	Sample results apply as received
		Online Order	901-2023-E028306

Analysis	Result
Enterobacteriaceae Plate Count *	
Enterobacteriaceae	<10 CFU/g
Glyphosate and AMPA	
Glyphosate	<100 ng/g
AMPA	<100 ng/g

Analysis	LOQ	Limit	Result	Pass/Fail
Residual Solvents - Class 1, 2a, 2b and 3				
1,1,1-Trichloroethane	10 ppm	10 ppm	<10 ppm	Pass
1,1-Dichloroethene	8 ppm	8 ppm	<8 ppm	Pass
1,2-Dichloroethane	5 ppm	5 ppm	<5 ppm	Pass
Benzene	2 ppm	2 ppm	<2 ppm	Pass
Carbon Tetrachloride	4 ppm	4 ppm	<4 ppm	Pass
1,2-Dimethoxyethane	100 ppm	100 ppm	<100 ppm	Pass
1,4-Dioxane	380 ppm	380 ppm	<380 ppm	Pass
Acetonitrile	410 ppm	410 ppm	<410 ppm	Pass
Chlorobenzene	360 ppm	360 ppm	<360 ppm	Pass
Chloroform	60 ppm	60 ppm	<60 ppm	Pass
1,2-Dichloroethene	1870 ppm	1870 ppm	<1870 ppm	Pass
Cumene	70 ppm	70 ppm	<70.0 ppm	Pass
Cyclohexane	3880 ppm	3880 ppm	<3880 ppm	Pass
Methanol	3000 ppm	3000 ppm	<3000 ppm	Pass
Methylbutylketone	50 ppm	50 ppm	<50 ppm	Pass
Methylcyclohexane	1180 ppm	1180 ppm	<1180 ppm	Pass
Methylene Chloride	600 ppm	600 ppm	<600 ppm	Pass
n-Hexane	290 ppm	290 ppm	<290 ppm	Pass
Nitromethane	50 ppm	50 ppm	<50 ppm	Pass
Pyridine	200 ppm	200 ppm	<200 ppm	Pass
Tetrahydrofuran	720 ppm	720 ppm	<720 ppm	Pass
Tetralin	96 ppm	96 ppm	<96.0 ppm	Pass

* This analysis or component is not ISO accredited.

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Page 1 of 3

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PO Number	PO-0038	Receipt Condition	Ambient temperature
Lot Number	EVG.ELIX.750150MFSOD9BO.0038	Login Date	11-May-2023
Sample Serving Size	1 mL	Date Started	11-Jul-2023
		Sampled	Sample results apply as received
		Online Order	901-2023-E028306

Analysis	LOQ	Limit	Result	Pass/Fail
Residual Solvents - Class 1, 2a, 2b and 3				
Toluene	890 ppm	890 ppm	<890 ppm	Pass
Trichloroethylene	80 ppm	80 ppm	<80 ppm	Pass
Xylenes(O,M,P + EB)	2170 ppm	2170 ppm	<2170 ppm	Pass
1-Butanol	200 ppm	5000 ppm	<200 ppm	Pass
1-Pentanol	200 ppm	5000 ppm	<200 ppm	Pass
1-Propanol	200 ppm	5000 ppm	<200 ppm	Pass
2-Butanol	200 ppm	5000 ppm	<200 ppm	Pass
Methylethylketone	200 ppm	5000 ppm	<200 ppm	Pass
3-Methyl-1-butanol	200 ppm	5000 ppm	<200 ppm	Pass
Acetic Acid Butyl Ester	200 ppm	5000 ppm	<200 ppm	Pass
Acetone	200 ppm	5000 ppm	<200 ppm	Pass
Anisole	200 ppm	5000 ppm	<200 ppm	Pass
Diethyl Ether	200 ppm	5000 ppm	<200 ppm	Pass
Ethanol	200 ppm	5000 ppm	<200 ppm	Pass
Ethyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Ethyl Formate	500 ppm	5000 ppm	<500 ppm	Pass
2-Methyl-1-propanol	200 ppm	5000 ppm	<200 ppm	Pass
Isobutyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
2-Propanol	200 ppm	5000 ppm	<200 ppm	Pass
Isopropyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Methyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Methylisobutylketone	200 ppm	5000 ppm	<200 ppm	Pass
tert-Butylmethyl Ether	200 ppm	5000 ppm	<200 ppm	Pass
n-Heptane	200 ppm	5000 ppm	<200 ppm	Pass
n-Pentane	200 ppm	5000 ppm	<200 ppm	Pass
Propyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Total Class 3 Residual Solvents	5000 ppm	5000 ppm	<5000 ppm	Pass

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Page 2 of 3

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

Internally developed method.

Residual Solvents - Class 1, 2a, 2b and 3 (USPR_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

United States Pharmacopeia, 38th Rev. - National Formulary 33rd Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015). (Modified).

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

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Page 3 of 3