

Prepared for:

**1000mg Sleep Rapid Reset Liposome -
210127**

Elixinol LLC


Batch ID or Lot Number: 210127	Test: Potency	Reported: 12/22/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
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Matrix: Solution	Test ID: T000183022	Started: 12/20/21	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 12/17/2021 @ 10:26 AM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.128	0.448	ND	ND	Density = 1.01g/mL
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.145	0.505	ND	ND	
Cannabidiolic acid (CBDA)	0.185	0.548	ND	ND	
Cannabidiol (CBD)	0.181	0.534	13.653	13.52	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.159	0.556	ND	ND	
Cannabinolic Acid (CBNA)	0.091	0.319	ND	ND	
Cannabinol (CBN)	0.042	0.146	1.470	1.46	
Cannabigerolic acid (CBGA)	0.134	0.467	ND	ND	
Cannabigerol (CBG)	0.032	0.112	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.113	0.395	ND	ND	
Tetrahydrocannabivarin (THCV)	0.029	0.102	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.077	0.228	ND	ND	
Cannabidivarin (CBDV)	0.043	0.126	0.074*	0.07*	
Cannabichromenic Acid (CBCA)	0.052	0.180	ND	ND	
Cannabichromene (CBC)	0.056	0.197	ND	ND	
Total Cannabinoids			15.197	15.05	
Total Potential THC**			ND	ND	
Total Potential CBD**			13.653	13.52	

 Jacob Miller
22-Dec-2021
03:33 PM

 Ryan Weems
22-Dec-21
3:44 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

** Total Potential THC/CBD 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)) and

Total CBD = CBD + (CBDa *(0.877))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

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.



CDPHE Certified



Certificate #4329.02

Prepared for:

1000mg Sleep Rapid Reset Liposome - 210127
Elixinol LLC

Batch ID or Lot Number: 210127	Test: Pesticides	Reported: 12/27/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
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Matrix: Concentrate	Test ID: T000183023	Started: 12/22/21	USDA License: N/A
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Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 12/17/2021 @ 10:26 AM	Sampler ID: N/A
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PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	42	ND	Fenoxycarb	40	ND	Paclobutrazol	46	ND
Acetamiprid	41	ND	Fipronil	25	ND	Permethrin	305	ND
Avermectin	351	ND	Flonicamid	44	ND	Phosmet	37	ND
Azoxystrobin	42	ND	Fludioxonil	306	ND	Prophos	278	ND
Bifenazate	38	ND	Hexythiazox	41	ND	Propoxur	42	ND
Boscalid	43	ND	Imazalil	261	ND	Pyridaben	297	ND
Carbaryl	40	ND	Imidacloprid	43	ND	Spinosad A	33	ND
Carbofuran	41	ND	Kresoxim-methyl	150	ND	Spinosad D	51	ND
Chlorantraniliprole	15	ND	Malathion	283	ND	Spiromesifen	287	ND
Chlorpyrifos	500	ND	Metaxyl	41	ND	Spirotetramat	296	ND
Clofentezine	286	ND	Methiocarb	42	ND	Spiroxamine 1	17	ND
Diazinon	277	ND	Methomyl	40	ND	Spiroxamine 2	24	ND
Dichlorvos	290	ND	MGK 264 1	177	ND	Tebuconazole	277	ND
Dimethoate	40	ND	MGK 264 2	118	ND	Thiacloprid	42	ND
E-Fenpyroximate	302	ND	Myclobutanil	46	ND	Thiamethoxam	44	ND
Etofenprox	43	ND	Naled	45	ND	Trifloxystrobin	43	ND
Etoxazole	307	ND	Oxamyl	1500	ND			


 Karen Winternheimer
 12/24/2021
 10:01:00 AM


 Courtney Richards
 12/27/2021
 1:00:00 PM

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Definitions

LOQ = Limit of Quantification
 ppb = Parts per Billion

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.



Certificate #4329.02

Prepared for:


1000mg Sleep Rapid Reset Liposome - 210127

Elixinol LLC

Batch ID or Lot Number: 210127	Test: Metals	Reported: 12/22/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
Matrix: Unit Co	Test ID: T000183025	Started: 12/20/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 12/17/2021 @ 10:26 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.046 - 4.64	ND	0
Cadmium	0.049 - 4.88	ND	
Mercury	0.048 - 4.77	ND	
Lead	0.048 - 4.80	ND	

 Ryan Weems
22-Dec-21
9:10 AM

PREPARED BY / DATE

 Sam Smith
22-Dec-21
9:13 AM

APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

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Prepared for:

1000mg Sleep Rapid Reset Liposome - 210127
Elixinol LLC


Batch ID or Lot Number: 210127	Test: Microbial Contaminants	Reported: 12/20/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
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Matrix: Finished Product	Test ID: T000183024	Started: 12/17/21	USDA License: N/A
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Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 12/17/2021 @ 10:26 AM	Sampler ID: N/A
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MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
Total Aerobic Count*	TM-26, Culture Plating	10 ² CFU/g	10 ³ CFU/g	1.5x10 ⁵ CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
Total Coliforms*	TM-27, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	


 Eden Thompson-Wright
 12/20/2021
 3:30:00 PM


 Brett Hudson
 12/20/2021
 5:23:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

 CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

* 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

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Batch ID or Lot Number: 210127	Test: Mycotoxins	Reported: 12/20/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
Matrix: Concentrate	Test ID: T000183026	Started: 12/17/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 12/17/2021 @ 10:26 AM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.7 - 139.9	ND	N/A
Aflatoxin B1	1 - 34.9	ND	
Aflatoxin B2	1 - 35	ND	
Aflatoxin G1	1 - 34.7	ND	
Aflatoxin G2	0.9 - 34.2	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	


 Sam Smith
 20-Dec-21
 5:17 PM

PREPARED BY / DATE


 Ryan Weems
 20-Dec-21
 5:21 PM

APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

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CDPHE Certified



Certificate #4329.02

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Sample Name:	1000mg Sleep Rapid Rest Liposome - 210127	Eurofins Sample:	11262391
Project ID	ELIXINOL-20211216-0050	Receipt Date	17-Dec-2021
PO Number	cvd	Receipt Condition	Ambient temperature
Lot Number	210127	Login Date	16-Dec-2021
Sample Serving Size	1 mL	Date Started	19-Dec-2021
		Sampled	Sample results apply as received
		Online Order	13484-167E3E8D

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.

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Sample Name:	1000mg Sleep Rapid Rest Liposome - 210127	Eurofins Sample:	11262391
Project ID	ELIXINOL-20211216-0050	Receipt Date	17-Dec-2021
PO Number	cvd	Receipt Condition	Ambient temperature
Lot Number	210127	Login Date	16-Dec-2021
Sample Serving Size	1 mL	Date Started	19-Dec-2021
		Sampled	Sample results apply as received
		Online Order	13484-167E3E8D

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	4180 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

* This analysis or component is not ISO accredited.

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_AMP_A_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".

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, 38nd Rev. - National Formulary 33th 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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