

Prepared for:

Sleep Good Night - Lot 22010601-01

Elixinol LLC

Batch ID or Lot Number: 22010601-01	Test: Potency	Reported: 2/9/22	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
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Matrix: Unit	Test ID: t000190608	Started: 2/8/22	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 02/07/2022 @ 09:57 AM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.064	0.190	ND	ND	# of Servings = 1 Sample Weight=0.564g
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.072	0.215	0.405	0.72	
Cannabidiolic acid (CBDA)	0.061	0.230	0.857	1.52	
Cannabidiol (CBD)	0.060	0.224	17.575	31.17	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.079	0.237	ND	ND	
Cannabinolic Acid (CBNA)	0.045	0.136	ND	ND	
Cannabinol (CBN)	0.021	0.062	0.036*	0.06*	
Cannabigerolic acid (CBGA)	0.066	0.199	ND	ND	
Cannabigerol (CBG)	0.016	0.048	0.205	0.36	
Tetrahydrocannabivarinic Acid (THCVA)	0.056	0.168	ND	ND	
Tetrahydrocannabivarin (THCV)	0.014	0.043	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.026	0.096	ND	ND	
Cannabidivarin (CBDV)	0.014	0.053	0.067	0.12	
Cannabichromenic Acid (CBCA)	0.026	0.077	0.039*	0.07*	
Cannabichromene (CBC)	0.028	0.084	0.329	0.58	
Total Cannabinoids			19.513	34.60	
Total Potential THC**			0.405	0.72	
Total Potential CBD**			18.327	32.50	



Hannah Wright
09-Feb-2022
05:59 PM



Daniel Weidensaul
9-Feb-22
6:10 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)

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CDPHE Certified



Certificate #4329.02

UET Finished Product Certificate Of Analysis



Good Night

CAPSULE CODE:	A8105	SPECIFICATION NUMBER:	EXGN-A8105	REVISION NO.:	02
PACKAGING CODE:	F3096-Box	LOT NUMBER:	22010601-01		
MANUFACTURING DATE:	01/2022	RE-TEST DATE:	01/2024		
EXCIPIENTS:	MCT Oil, Silica	CARRIERS:	N/A		

IDENTIFICATION	SPECIFICATION	RESULTS	TEST METHOD
Color	Brown	Complies	Visual
Appearance	Liquid	Complies	Visual

TRACE METALS	SPECIFICATION	RESULTS	TEST METHOD
Arsenic (As)	NMT 1.0 ppm	NMT 0.50ppm	ICP-MS
Cadmium (Cd)	NMT 1.0 ppm	NMT 0.25ppm	ICP-MS
Lead (Pb)	NMT 0.5 ppm	NMT 0.10ppm	ICP-MS
Mercury (Hg)	NMT 0.5 ppm	NMT 0.10ppm	ICP-MS

MICROBIAL ASSAY	SPECIFICATION	RESULTS	TEST METHOD
Total Plate Count	NMT 10,000 CFU/g	Complies	USP<2021>
Yeast & Mold	NMT 1,000 CFU/g	Complies	USP<2021>
Salmonella	Absent/10 grams	Complies	USP<2022>
E. coli	Absent/10 grams	Complies	USP<2022>
Staphylococcus aureus	Absent/10 grams	Complies	USP<2022>

ASSAY FOR ACTIVES	SPECIFICATION (per capsule)	RESULTS	TEST METHOD
CBD	NLT 15.0mg	18.3mg	HPLC
THC	NMT 0.45mg	0.41mg	HPLC
Melatonin	NLT 2.0mg	2.0mg	HPLC

ADDITIONAL INFORMATION
<p>SHELF LIFE: Two (2) years from date of manufacturing.</p> <p>STORAGE: Store in a cool dry place, away from direct sunlight.</p> <p>NMT= Not More Than NLT= Not Less Than</p>

Approved by:  Date: 02/28/2022
 Quality Assurance


Prepared for:


Sleep Good Night - Lot 22010601-01
Elixinol LLC

Batch ID or Lot Number: 22010601-01	Test: Pesticides	Reported: 2/10/22	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
Matrix: Concentrate	Test ID: T000190609	Started: 2/9/22	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 02/07/2022 @ 09:57 AM	Sampler ID: N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	42	ND	Fenoxycarb	41	ND	Paclobutrazol	44	ND
Acetamiprid	42	ND	Fipronil	35	ND	Permethrin	266	ND
Avermectin	302	ND	Flonicamid	44	ND	Phosmet	45	ND
Azoxystrobin	47	ND	Fludioxonil	308	ND	Prophos	293	ND
Bifenazate	44	ND	Hexythiazox	39	ND	Propoxur	41	ND
Boscalid	39	ND	Imazalil	274	ND	Pyridaben	290	ND
Carbaryl	41	ND	Imidacloprid	43	ND	Spinosad A	33	ND
Carbofuran	42	ND	Kresoxim-methyl	150	ND	Spinosad D	47	ND
Chlorantraniliprole	42	ND	Malathion	293	ND	Spiromesifen	279	ND
Chlorpyrifos	500	ND	Metalaxyl	44	ND	Spirotetramat	309	ND
Clofentezine	282	ND	Methiocarb	41	ND	Spiroxamine 1	17	ND
Diazinon	288	ND	Methomyl	42	ND	Spiroxamine 2	23	ND
Dichlorvos	286	ND	MGK 264 1	168	ND	Tebuconazole	283	ND
Dimethoate	43	ND	MGK 264 2	108	ND	Thiacloprid	42	ND
E-Fenpyroximate	292	ND	Myclobutanil	36	ND	Thiamethoxam	40	ND
Etofenprox	41	ND	Naled	50	ND	Trifloxystrobin	43	ND
Etoxazole	289	ND	Oxamyl	1500	ND			


 Daniel Weidensaul
 2/10/2022
 2:48:00 PM


 Sam Smith
 2/10/2022
 2:55:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

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:
Elixinol LLC
Sleep Good Night - Lot 22010601-01

Batch ID or Lot Number: 22010601-01	Test: Metals	Reported: 2/9/22	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
Matrix: Unit Co	Test ID: T000190611	Started: 2/8/22	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 02/07/2022 @ 09:57 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.045 - 4.50	ND	
Cadmium	0.043 - 4.25	ND	
Mercury	0.044 - 4.42	ND	
Lead	0.044 - 4.38	ND	


 Sam Smith
 9-Feb-22
 12:44 PM


 Ryan Weems
 9-Feb-22
 1:00 PM

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APPROVED BY / DATE

Definitions

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

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Prepared for:

Sleep Good Night - Lot 22010601-01

Elixinol LLC


Batch ID or Lot Number: 22010601-01	Test: Residual Solvents	Reported: 2/9/22	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
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Matrix: N/A	Test ID: T000190612	Started: 2/8/22	USDA License: N/A
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Status: N/A	Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel)	Received: 02/07/2022 @ 09:57 AM	Sampler ID: N/A
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RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	118 - 2357	*ND	
Butanes (Isobutane, n-Butane)	237 - 4731	*ND	
Methanol	68 - 1361	*ND	
Pentane	118 - 2366	*ND	
Ethanol	98 - 1968	*ND	
Acetone	116 - 2329	*ND	
Isopropyl Alcohol	100 - 2007	*ND	
Hexane	8 - 152	*ND	
Ethyl Acetate	113 - 2265	*ND	
Benzene	0.2 - 4.6	*ND	
Heptanes	118 - 2353	*ND	
Toluene	19 - 385	*ND	
Xylenes (m,p,o-Xylenes)	123 - 2454	*ND	


 Sam Smith
 9-Feb-22
 11:20 AM


 Ryan Weems
 9-Feb-22
 11:22 AM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

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Prepared for:

Sleep Good Night - Lot 22010601-01
Elixinol LLC


Batch ID or Lot Number: 22010601-01	Test: Microbial Contaminants	Reported: 2/10/22	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
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Matrix: Finished Product	Test ID: T000190610	Started: 2/7/22	USDA License: N/A
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Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 02/07/2022 @ 09:57 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	<LLOQ	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
 2/10/2022
 12:38:00 PM


 Brianne Maillot
 2/10/2022
 1:16:00 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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Prepared for:

Sleep Good Night - Lot 22010601-01
Elixinol LLC


Batch ID or Lot Number: 22010601-01	Test: Mycotoxins	Reported: 2/12/22	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
Matrix: Concentrate	Test ID: T000190613	Started: 2/10/22	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 02/07/2022 @ 09:57 AM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.4 - 143.2	ND	N/A
Aflatoxin B1	1 - 36.4	ND	
Aflatoxin B2	1.2 - 36	ND	
Aflatoxin G1	1.1 - 36.2	ND	
Aflatoxin G2	1.3 - 35.6	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	


 Ryan Weems
 12-Feb-22
 9:00 AM

PREPARED BY / DATE


 Sam Smith
 12-Feb-22
 9:14 AM

APPROVED BY / DATE

Definitions

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

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Certificate #4329.02

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Sample Name:	Sleep Good Night - Lot 22010601-01	Eurofins Sample:	11401055
Project ID	ELIXINOL-20220201-0002	Receipt Date	03-Feb-2022
PO Number	cvd	Receipt Condition	Ambient temperature
Lot Number	22010601-01	Login Date	01-Feb-2022
Sample Serving Size	1 Cap	Date Started	03-Feb-2022
		Sampled	Sample results apply as received
		Number Composited	20
		Online Order	13484-16BC1163

Analysis	Result
Calculated Sample Weight *	
Entity Weight	0.5680 g
Entity Fill Weight	0.4640 g
Enterobacteriaceae Plate Count *	
Enterobacteriaceae	<10 CFU/g
Glyphosate and AMPA	
Glyphosate	<100 ng/g
AMPA	<100 ng/g

Method References	Testing Location
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Calculated Sample Weight (PREP)	Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
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Enterobacteriaceae Plate Count (EBPC)	EML New Berlin 2345 S 170th St New Berlin, WI 53151 USA
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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_AMPAS)	Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
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Monsanto Company Method ME-1466-02, "High Throughput Assay for Glyphosate and AMPA in Raw Agricultural Commodities and Processed Fractions Using LC/MS/MS".

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

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

**Edward Ladwig - President Eurofins Food
Chemistry Testing Madison**



2918.01

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.