

CERTIFICATE OF ANALYSIS

Prepared for: **Elixinol LLC**

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

Sleep Gummy 450mg CBD 60mg CBN - 220115

Batch ID or Lot Number: 220115	Test: Potency	Reported: 07Jun2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000208718	06Jun2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	02Jun2022	Active

Cannabinoids	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.192	0.636	ND	ND	# of Servings = 1
Cannabichromenic Acid (CBCA)	0.176	0.582	ND	ND	Sample
Cannabidiol (CBD)	0.575	1.701	17.412	7.10	Weight=2.453g
Cannabidiolic Acid (CBDA)	0.590	1.744	ND	ND	
Cannabidivarin (CBDV)	0.136	0.402	<loq< td=""><td>0.09</td><td></td></loq<>	0.09	
Cannabidivarinic Acid (CBDVA)	0.246	0.728	ND	ND	
Cannabigerol (CBG)	0.109	0.361	0.424	0.17	
Cannabigerolic Acid (CBGA)	0.457	1.511	ND	ND	
Cannabinol (CBN)	0.143	0.471	2.500	1.02	
Cannabinolic Acid (CBNA)	0.312	1.031	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.544	1.800	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.494	1.634	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.438	1.448	ND	ND	
Tetrahydrocannabivarin (THCV)	0.099	0.329	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.386	1.277	ND	ND	
Total Cannabinoids			20.553	8.38	
Total Potential THC			ND	ND	
Total Potential CBD			17.412	7.10	-

Final Approval

PREPARED BY / DATE

Ryan Weems 07Jun2022 03:35:00 PM MDT

APPROVED BY / DATE

Karen Winternheimer 07Jun2022 03:40:00 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)).

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.





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Elixinol LLC

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

Sleep Gummy 450mg CBD 60mg CBN - 220115

Batch ID or Lot Number:	Test:	Reported:	USDA License:
220115	Trace THC	09Jun2022	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000208719	08Jun2022	NA
	Method(s):	Received:	Status:
	TM20 (HPLC-DAD)	02Jun2022	NA

Cannabinoids	Dynamic Range (%)	Result (%)	Result (mg/g)		Notes
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.001 - 0.648	ND	0.00	N/A	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.002 - 1.297	ND	0.00	N/A	
Total Potential THC	-	ND	0.00		

Final Approval

PREPARED BY / DATE

Jacob Miller 09Jun2022 11:14:00 AM MDT

APPROVED BY / DATE

Ryan Weems 09Jun2022 11:17:00 AM MDT



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Definitions

% = % (w/w) = Percent (weight of analyte / weight of product)

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)) ND = None Detected (defined by dynamic range of the method) ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method)

Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Elixinol, LLC

10170 Church Ranch Westminster Colorado 80021

Sample Name:	Sleep Gummy 450mg CBD 60mg CBN - 220115 Ethanol	Eurofins Sample:	11836620
Project ID	ELIXINOL-20220609-0020	Receipt Date	14-Jun-2022
PO Number	NA	Receipt Condition	Ambient temperature
ot Number	220115	Login Date	09-Jun-2022
Sample Serving Size	1 Piece	Date Started	15-Jun-2022
		Sampled	Sample results apply as received
		Number Composited	2
		Online Order	13484-1763912B
Analysis			Result
Calculated Sample	Weight *		
Entity Weight			2.4264 g
Analysis		Limit	Result
Residual Solvent Ar	alysis in Cannabis and Hemp Matrices		
1,2-Dichloroethane			<1.0 ppm
2-Propanol			<500 ppm
Acetone			<200 ppm
Acetonitrile			<200 ppm
Benzene			<1.0 ppm
Chloroform			<1.0 ppm
Ethanol			1050 ppm
Ethyl Acetate			<500 ppm
Ethyl Ether			<500 ppm
Ethylene Oxide			<25.0 ppm
Methanol			<500 ppm
Methylene Chloride			<1.0 ppm
n-Hexane			<30.0 ppm
Propane			<1000 ppm
Toluene			<90.0 ppm
Trichloroethylene			<1.0 ppm
Summed Group 1 (E			
Isobutane (2-Methy	lpropane)		<500 ppm
n-Butane			<500 ppm
Sum of Butanes			<1000 ppm
Summed Group 2 (H	• *		
2,2,3-Trimethylbuta			<50.0 ppm
2,2-Dimethylpentar			<50.0 ppm
2,3-Dimethylpentar			<50.0 ppm
2,4-Dimethylpentar	le		<50.0 ppm

* This analysis or component is not ISO accredited.



Elixinol, LLC

10170 Church Ranch Westminster Colorado 80021

Sample Name:	Sleep Gummy 450mg CBD 60mg CBN - 220115 Ethanol	Eurofins Sample:	11836620
Project ID	ELIXINOL-20220609-0020	Receipt Date	14-Jun-2022
PO Number	NA	Receipt Condition	Ambient temperature
_ot Number	220115	Login Date	09-Jun-2022
Sample Serving Size	1 Piece	Date Started	15-Jun-2022
		Sampled	Sample results apply as received
		Number Composited	2
		Online Order	13484-1763912B
Analysis		Limit	Result
Residual Solvent Ar	nalysis in Cannabis and Hemp Matrices		
2-Methylhexane			<50.0 ppm
3,3-Dimethylpentar	ne		<50.0 ppm
3-Ethylpentane			<50.0 ppm
3-Methylhexane			<50.0 ppm
n-Heptane			<50.0 ppm
Sum of Heptanes			<450 ppm
Summed Group 3 (F	Petroleum Ether)		
2,2-Dimethylbutane	2		<25.0 ppm
2,3-Dimethylbutane	2		<25.0 ppm
2-Methylpentane			<25.0 ppm
3-Methylpentane			<25.0 ppm
n-Pentane			<25.0 ppm
Sum of Petroleum I	Ether		<125 ppm
Summed Group 4 ()	(ylenes)		
Xylenes-1 (Ethylbe	nzene)		<40.0 ppm
Xylenes-2 (m- p-Xy	rlene)		<140 ppm
Xylenes-3 (o-Xylen	e)		<20.0 ppm
Sum of Xylenes			<200 ppm

Method References

Calculated Sample Weight (PREP)

Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN_SOL_S)

Internally Developed Method

Food Integrity Innovation-Madison

Testing Location

6304 Ronald Reagan Ave Madison, WI 53704 USA

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



Report Number:3716405-0Report Date:24-Jun-2022Report Status:Final

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch Westminster Colorado 80021

Testing Location(s)

Food Integrity Innovation-Madison

Eurofins Food Chemistry Testing Madison, Inc. 6304 Ronald Reagan Ave Madison WI 53704 800-675-8375 Released on Behalf of Eurofins by

Edward Ladwig - President Eurofins Food Chemistry Testing Madison



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.



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Prepared for: Elixinol LLC

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

Sleep Gummy 450mg CBD 60mg CBN - 220115

Batch ID or Lot Number:	Test:	Reported:	USDA License:
220115	Heavy Metals	07Jun2022	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000208722	07Jun2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	02Jun2022	NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.34	ND	
Cadmium	0.05 - 4.52	ND	-
Mercury	0.05 - 4.61	ND	0
Lead	0.05 - 4.65	ND	0

Final Approval

PREPARED BY / DATE

Kayla Phye 07Jun2022 12:43:00 PM MDT

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APPROVED BY / DATE

Ryan Weems 07Jun2022 12:50:00 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

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CERTIFICATE OF ANALYSIS

Prepared for: Elixinol LLC

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

Sleep Gummy 450mg CBD 60mg CBN - 220115

Batch ID or Lot Number: 220115	Test: Microbial Conta	aminants	Reported: 06Jun2022		USDA License: N/A
Matrix:	Test ID:		Started:		Sampler ID:
Finished Product	T000208721		02Jun2022		N/A
	Method(s):		Received:		Status:
	TM25 (qPCR) TM (Culture Plating) Panel)	24, TM26, TM27 : Microbial (Colorado	02Jun2022 ว		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	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	_

Final Approval

Kit 1/2/m

Brett Hudson 05Jun2022

Brianne Maillot

Brianne Maillot 06Jun2022 05:24:00 PM MDT



PREPARED BY / DATE

12:27:00 PM MDT

APPROVED BY / DATE



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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: $10^2 = 100 \text{ CFU}$, $10^3 = 1,000 \text{ CFU}$, $10^4 = 10,000 \text{ CFU}$, $10^5 = 100,000 \text{ CFU}$ CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection

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

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Elixinol LLC

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

Sleep Gummy 450mg CBD 60mg CBN - 220115

Batch ID or Lot Number:	Test:	Reported:	USDA License:
220115	Pesticides	06Jun2022	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000208720	03Jun2022	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	02Jun2022	NA

Pesticides	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	282 - 2769	ND	Malathion	289 - 2734	ND
Acephate	45 - 2760	ND	Metalaxyl	43 - 2734	ND
Acetamiprid	41 - 2704	ND	Methiocarb	48 - 2652	ND
Azoxystrobin	45 - 2664	ND	Methomyl	43 - 2725	ND
Bifenazate	42 - 2706	ND	MGK 264 1	172 - 1655	ND
Boscalid	42 - 2610	ND	MGK 264 2	112 - 1138	ND
Carbaryl	39 - 2731	ND	Myclobutanil	34 - 2694	ND
Carbofuran	41 - 2721	ND	Naled	32 - 2801	ND
Chlorantraniliprole	56 - 2698	ND	Oxamyl	38 - 2716	ND
Chlorpyrifos	44 - 2764	ND	Paclobutrazol	42 - 2749	ND
Clofentezine	242 - 2774	ND	Permethrin	274 - 2733	ND
Diazinon	290 - 2707	ND	Phosmet	41 - 2716	ND
Dichlorvos	290 - 2695	ND	Prophos	286 - 2695	ND
Dimethoate	45 - 2680	ND	Propoxur	41 - 2727	ND
E-Fenpyroximate	284 - 2683	ND	Pyridaben	299 - 2696	ND
Etofenprox	43 - 2676	ND	Spinosad A	26 - 2240	ND
Etoxazole	295 - 2684	ND	Spinosad D	48 - 495	ND
Fenoxycarb	40 - 2748	ND	Spiromesifen	297 - 2726	ND
Fipronil	45 - 2686	ND	Spirotetramat	313 - 2709	ND
Flonicamid	45 - 2745	ND	Spiroxamine 1	15 - 1143	ND
Fludioxonil	286 - 2707	ND	Spiroxamine 2	23 - 1534	ND
Hexythiazox	44 - 2712	ND	Tebuconazole	264 - 2723	ND
Imazalil	270 - 2786	ND	Thiacloprid	45 - 2688	ND
Imidacloprid	43 - 2667	ND	Thiamethoxam	48 - 2712	ND
Kresoxim-methyl	55 - 2708	ND	Trifloxystrobin	45 - 2732	ND

Final Approval

Samanthe Smo

Sam Smith 06Jun2022 02:13:00 PM MDT

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APPROVED BY / DATE

Ryan Weems 06Jun2022 02:16:00 PM MDT



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Definitions

PREPARED BY / DATE

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 LLC

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

Sleep Gummy 450mg CBD 60mg CBN - 220115

Batch ID or Lot Number: 220115	Test: Mycotoxins	Reported: 06Jun2022	USDA License: N/A	
Matrix:	Test ID:	Started:	Sampler ID:	
Concentrate	T000208724	06Jun2022	N/A	
	Method(s):	Received:	Status:	
	TM18 (UHPLC-QQQ LCMS/MS):	02Jun2022	Active	
	Mycotoxins			
Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes	
Ochratoxin A	3.73 - 129.45	ND	N/A	
Aflatoxin B1	0.87 - 32.89	ND		
Aflatoxin B2	1.06 - 32.86	ND		
Aflatoxin G1	0.96 - 32.60	ND		
Aflatoxin G2	1.29 - 33.50	ND		
Total Aflatoxins (B1, B2, G1, an	d G2)	ND		

Final Approval

PREPARED BY / DATE

Ryan Weems 06Jun2022 04:42:00 PM MDT

amantha -

Sam Smith 06Jun2022 04:47:00 PM MDT



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/a683f198-2889-49a7-9cef-6a035c186adf

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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Elixinol, LLC

10170 Church Ranch Westminster Colorado 80021

Sample Name:	Sleep Gummy 450mg CBD 60mg CBN - 220115	Eurofins Sample:	11802689
Project ID	ELIXINOL-20220531-0019	Receipt Date	03-Jun-2022
PO Number	NA	Receipt Condition	Ambient temperature
Lot Number	220115	Login Date	31-May-2022
Sample Serving Size	1 Piece	Date Started	06-Jun-2022
		Sampled	Sample results apply as received
		Online Order	13484-1758AA6C
Analysis			Result
Calculated Sample	Weight *		
Entity Weight			2.5736 g
Enterobacteriaceae	Plate Count *		
Enterobacteriaceae			<10 CFU/g
Glyphosate and AM	ΡΑ		
Glyphosate			<100 ng/g
AMPA			<100 ng/g

Method References

Calculated Sample Weight (PREP)

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-Madison

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

Released on Behalf of Eurofins by

Edward Ladwig - President Eurofins Food Chemistry Testing Madison



Testing Location

EML New Berlin

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

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

2345 S 170th St New Berlin, WI 53151 USA

Chemistry Testing Madison



Elixinol, LLC 10170 Church Ranch Westminster Colorado 80021

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