

CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

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

T-Free Sleep Gummy 230055

Batch ID or Lot Number: 230055	Test: Potency	Reported: 28Apr2023	USDA License: N/A
Matrix: Unit	Test ID: T000242057	Started: 27Apr2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 26Apr2023	Status: Active

Cannabinoids

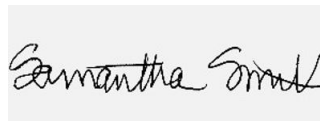
	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.296	0.803	ND	ND	# of Servings = 1 Sample Weight=3.259g
Cannabichromenic Acid (CBCA)	0.270	0.735	ND	ND	
Cannabidiol (CBD)	0.839	2.083	15.089	4.63	
Cannabidiolic Acid (CBDA)	0.860	2.137	ND	ND	
Cannabidivarin (CBDV)	0.198	0.493	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.359	0.891	ND	ND	
Cannabigerol (CBG)	0.168	0.456	ND	ND	
Cannabigerolic Acid (CBGA)	0.702	1.907	ND	ND	
Cannabinol (CBN)	0.219	0.595	2.110	0.65	
Cannabinolic Acid (CBNA)	0.479	1.301	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.836	2.272	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.759	2.063	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.673	1.828	ND	ND	
Tetrahydrocannabivarin (THCV)	0.153	0.415	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.593	1.612	ND	ND	
Total Cannabinoids			17.199	5.28	
Total Potential THC			ND	ND	
Total Potential CBD			15.089	4.63	

Final Approval



Karen Winternheimer
28Apr2023
10:45:00 AM MDT

PREPARED BY / DATE



Sam Smith
28Apr2023
10:49:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/f8390746-4c7c-46dd-9c31-574a1a107e7f>

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 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.



Cert #4329.02

CDPHE Certified
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CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC


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


T-Free Sleep Gummy 230055

Batch ID or Lot Number: 230055	Test: Residual Solvents	Reported: 01May2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000242062	Started: 30Apr2023	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 26Apr2023	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	112 - 2233	ND	
Butanes (Isobutane, n-Butane)	226 - 4521	ND	
Methanol	70 - 1395	ND	
Pentane	110 - 2198	ND	
Ethanol	111 - 2225	ND	
Acetone	112 - 2230	ND	
Isopropyl Alcohol	116 - 2323	ND	
Hexane	7 - 133	ND	
Ethyl Acetate	113 - 2250	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	112 - 2247	ND	
Toluene	20 - 390	ND	
Xylenes (m,p,o-Xylenes)	143 - 2852	ND	

Final Approval


Sam Smith
01May2023
10:44:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
01May2023
10:45:00 AM MDT
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/52c0882a-8ac3-4a9c-a220-fff837a87dbf>

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

T-Free Sleep Gummy 230055

Batch ID or Lot Number: 230055	Test: Heavy Metals	Reported: 01May2023	USDA License: NA
Matrix: Unit Co	Test ID: T000242061	Started: 28Apr2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 26Apr2023	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.39	ND	
Cadmium	0.04 - 4.46	ND	
Mercury	0.05 - 4.58	ND	
Lead	0.04 - 4.39	ND	

Final Approval



Sam Smith
01May2023
11:56:00 AM MDT

PREPARED BY / DATE



Karen Winternheimer
01May2023
12:04:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/08429c88-b859-422e-81a0-3f0651b1a9a1>

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

T-Free Sleep Gummy 230055

Batch ID or Lot Number: 230055	Test: Microbial Contaminants	Reported: 01May2023	USDA License: N/A
Matrix: Finished Product	Test ID: T000242060	Started: 26Apr2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 26Apr2023	Status: Active

Microbial Contaminants

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	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



Brett Hudson
01May2023
12:16:00 PM MDT



Eden Thompson-Wright
01May2023
04:28:00 PM MDT



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/775dcb39-a372-4791-932e-413ce7143523>

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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 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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Prepared for:
Elixinol LLC

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

T-Free Sleep Gummy 230055

Batch ID or Lot Number: 230055	Test: Pesticides	Reported: 28Apr2023	USDA License: NA
Matrix: Concentrate	Test ID: T000242059	Started: 26Apr2023	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 26Apr2023	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	306 - 2596	ND	Malathion	285 - 2764	ND
Acephate	45 - 2781	ND	Metalaxyl	40 - 2734	ND
Acetamiprid	42 - 2707	ND	Methiocarb	46 - 2764	ND
Azoxystrobin	44 - 2716	ND	Methomyl	42 - 2765	ND
Bifenazate	41 - 2745	ND	MGK 264 1	173 - 1707	ND
Boscalid	42 - 2705	ND	MGK 264 2	120 - 1074	ND
Carbaryl	43 - 2723	ND	Myclobutanil	40 - 2755	ND
Carbofuran	42 - 2741	ND	Naled	59 - 2720	ND
Chlorantraniliprole	44 - 2778	ND	Oxamyl	42 - 2746	ND
Chlorpyrifos	40 - 2680	ND	Pacllobutrazol	44 - 2716	ND
Clofentezine	293 - 2743	ND	Permethrin	290 - 2751	ND
Diazinon	294 - 2730	ND	Phosmet	41 - 2724	ND
Dichlorvos	258 - 2731	ND	Prophos	326 - 2730	ND
Dimethoate	41 - 2706	ND	Propoxur	40 - 2714	ND
E-Fenpyroximate	283 - 2751	ND	Pyridaben	295 - 2692	ND
Etofenprox	43 - 2684	ND	Spinosad A	30 - 2073	ND
Etoxazole	294 - 2687	ND	Spinosad D	65 - 656	ND
Fenoxycarb	42 - 2732	ND	Spiromesifen	280 - 2752	ND
Fipronil	49 - 2742	ND	Spirotetramat	289 - 2782	ND
Flonicamid	49 - 2777	ND	Spiroxamine 1	19 - 1205	ND
Fludioxonil	289 - 2766	ND	Spiroxamine 2	25 - 1526	ND
Hexythiazox	45 - 2741	ND	Tebuconazole	289 - 2748	ND
Imazalil	275 - 2727	ND	Thiacloprid	43 - 2695	ND
Imidacloprid	47 - 2738	ND	Thiamethoxam	46 - 2735	ND
Kresoxim-methyl	25 - 2737	ND	Trifloxystrobin	44 - 2702	ND

Final Approval



Karen Winternheimer
28Apr2023
11:39:00 AM MDT

PREPARED BY / DATE



Sam Smith
28Apr2023
11:42:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/066d7565-1b3b-4864-9745-2b20b07b8693>

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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CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC


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

T-Free Sleep Gummy 230055

Batch ID or Lot Number: 230055	Test: Mycotoxins	Reported: 01May2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000242063	Started: 28Apr2023	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 26Apr2023	Status: Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.72 - 129.82	ND	N/A
Aflatoxin B1	0.96 - 32.22	ND	
Aflatoxin B2	0.93 - 32.02	ND	
Aflatoxin G1	1.09 - 31.99	ND	
Aflatoxin G2	0.99 - 32.73	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Sam Smith
01May2023
08:09:00 AM MDT

PREPARED BY / DATE



Karen Winternheimer
01May2023
08:13:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uiid/d2d99dc7-9f36-442e-a62c-374d889de193>

Definitions

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

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Cert #4329.02

CDPHE Certified

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Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Sample Name:	T-Free Sleep Gummy 230055	Eurofins Sample:	12862821
Project ID	ELIXINOL-20230421-0008	Receipt Date	28-Apr-2023
PO Number	PO-0034	Receipt Condition	Ambient temperature
Lot Number	230055	Login Date	21-Apr-2023
Sample Serving Size	1 Piece	Date Started	28-Apr-2023
Description	T-Free Sleep Gummy 230055	Sampled	Sample results apply as received
		Online Order	901-2023-E023938

Analysis

Result

Calculated Sample Weight *

Entity Weight

3.9457 g

Enterobacteriaceae Plate Count *

Enterobacteriaceae

<10 CFU/g

Glyphosate and AMPA

Glyphosate

<10.0 ng/g

AMPA

<10.0 ng/g

Method References

Testing Location

Calculated Sample Weight (PREP)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

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_AMPAS)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Internally developed method.

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

* This analysis or component is not ISO accredited.

Printed: 03-May-2023 6:51 pm

Page 1 of 2

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch

Westminster Colorado 80021 United States

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.

Prepared for:
Elixinol LLC

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


T-Free Sleep Gummy 230055

Batch ID or Lot Number: 230055	Test: Trace THC	Reported: 28Apr2023	USDA License: NA
Matrix: Unit Co	Test ID: T000242058	Started: 27Apr2023	Sampler ID: NA
	Method(s): TM20 (HPLC-DAD)	Received: 26Apr2023	Status: NA

Cannabinoids

	Dynamic Range (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.001 - 0.629	ND	0.00	N/A
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.002 - 1.258	ND	0.00	N/A
Total Potential THC	-	ND	0.00	

Final Approval



Sam Smith
28Apr2023
07:41:00 AM MDT

PREPARED BY / DATE



Karen Winternheimer
28Apr2023
07:44:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/380ab524-a194-4a8a-8e02-d12811cdf571>

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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380ab524a1944a8a8e02d12811cdf571.2