

CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

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

Citrus Twist Lipo 1000 - 230022

Batch ID or Lot Number: 230022	Test: Potency	Reported: 23Feb2023	USDA License: N/A
Matrix: Solution	Test ID: T000236207	Started: 22Feb2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 20Feb2023	Status: Active

Cannabinoids

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.072	0.228	<LOQ	<LOQ	Density = 1.088627g/mL
Cannabichromenic Acid (CBCA)	0.066	0.208	ND	ND	
Cannabidiol (CBD)	0.211	0.585	11.231	10.32	
Cannabidiolic Acid (CBDA)	0.217	0.600	ND	ND	
Cannabidivarin (CBDV)	0.050	0.138	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.090	0.250	ND	ND	
Cannabigerol (CBG)	0.041	0.129	ND	ND	
Cannabigerolic Acid (CBGA)	0.171	0.540	ND	ND	
Cannabinol (CBN)	0.053	0.169	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.117	0.369	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.204	0.644	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.185	0.585	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.164	0.518	ND	ND	
Tetrahydrocannabivarin (THCV)	0.037	0.118	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.145	0.457	ND	ND	
Total Cannabinoids			11.231	10.32	
Total Potential THC			ND	ND	
Total Potential CBD			11.231	10.32	

Final Approval



Sam Smith
23Feb2023
08:44:00 AM MST

PREPARED BY / DATE



Karen Winternheimer
23Feb2023
08:48:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/42604cb1-d251-4a01-b968-eff7957a1957>

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

42604cb1d2514a01b968eff7957a1957.1

CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

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

Citrus Twist Lipo 1000 - 230022

Batch ID or Lot Number: 230022	Test: Residual Solvents	Reported: 23Feb2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000236211	Started: 22Feb2023	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 20Feb2023	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	98 - 1962	ND	
Butanes (Isobutane, n-Butane)	203 - 4058	ND	
Methanol	59 - 1190	ND	
Pentane	102 - 2033	ND	
Ethanol	100 - 1998	435	
Acetone	99 - 1984	ND	
Isopropyl Alcohol	104 - 2079	ND	
Hexane	6 - 121	ND	
Ethyl Acetate	100 - 2002	ND	
Benzene	0.2 - 3.9	ND	
Heptanes	99 - 1988	ND	
Toluene	17 - 350	ND	
Xylenes (m,p,o-Xylenes)	130 - 2595	ND	

Final Approval


Sam Smith
23Feb2023
09:08:00 AM MST

PREPARED BY / DATE


Karen Winternheimer
23Feb2023
09:09:00 AM MST

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<https://results.botanacor.com/api/v1/coas/uuid/aebde36e-bbca-440a-8a6e-19de7f6415b2>

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

Citrus Twist Lipo 1000 - 230022

Batch ID or Lot Number: 230022	Test: Heavy Metals	Reported: 24Feb2023	USDA License: NA
Matrix: Unit Co	Test ID: T000236210	Started: 24Feb2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 20Feb2023	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.58	ND	
Cadmium	0.05 - 4.63	ND	
Mercury	0.04 - 4.25	ND	
Lead	0.05 - 5.18	ND	

Final Approval



Sam Smith
24Feb2023
12:27:00 PM MST

PREPARED BY / DATE



Karen Winternheimer
24Feb2023
12:31:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/b93f8b29-9e81-45b3-b298-5f7cbe9dee8f>

Definitions

ND = None Detected (defined by dynamic range of the method)
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CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

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

Citrus Twist Lipo 1000 - 230022

Batch ID or Lot Number: 230022	Test: Microbial Contaminants	Reported: 24Feb2023	USDA License: N/A
Matrix: Finished Product	Test ID: T000236209	Started: 21Feb2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 20Feb2023	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
24Feb2023
02:58:00 PM MST

PREPARED BY / DATE



Brianne Maillot
25Feb2023
05:19:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/f158c650-2232-405c-8472-4f08745e8134>

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

Citrus Twist Lipo 1000 - 230022

Batch ID or Lot Number: 230022	Test: Pesticides	Reported: 24Feb2023	USDA License: NA
Matrix: Concentrate	Test ID: T000236208	Started: 23Feb2023	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 20Feb2023	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	324 - 2773	ND	Malathion	281 - 2698	ND
Acephate	43 - 2752	ND	Metalaxyl	43 - 2701	ND
Acetamiprid	41 - 2704	ND	Methiocarb	41 - 2737	ND
Azoxystrobin	44 - 2701	ND	Methomyl	40 - 2714	ND
Bifenazate	40 - 2705	ND	MGK 264 1	165 - 1598	ND
Boscalid	38 - 2737	ND	MGK 264 2	115 - 1120	ND
Carbaryl	38 - 2718	ND	Myclobutanil	47 - 2715	ND
Carbofuran	42 - 2692	ND	Naled	44 - 2707	ND
Chlorantraniliprole	42 - 2746	ND	Oxamyl	41 - 2726	ND
Chlorpyrifos	47 - 2711	ND	Pacllobutrazol	42 - 2699	ND
Clofentezine	266 - 2736	ND	Permethrin	308 - 2683	ND
Diazinon	290 - 2714	ND	Phosmet	40 - 2707	ND
Dichlorvos	279 - 2716	ND	Prophos	283 - 2743	ND
Dimethoate	41 - 2688	ND	Propoxur	41 - 2692	ND
E-Fenpyroximate	298 - 2729	ND	Pyridaben	315 - 2709	ND
Etofenprox	38 - 2714	ND	Spinosad A	32 - 2216	ND
Etoxazole	308 - 2695	ND	Spinosad D	50 - 489	ND
Fenoxycarb	42 - 2730	ND	Spiromesifen	288 - 2726	ND
Fipronil	55 - 2633	ND	Spirotetramat	296 - 2731	ND
Flonicamid	48 - 2766	ND	Spiroxamine 1	17 - 1160	ND
Fludioxonil	318 - 2730	ND	Spiroxamine 2	21 - 1551	ND
Hexythiazox	41 - 2719	ND	Tebuconazole	300 - 2703	ND
Imazalil	287 - 2706	ND	Thiacloprid	41 - 2706	ND
Imidacloprid	42 - 2706	ND	Thiamethoxam	40 - 2736	ND
Kresoxim-methyl	38 - 2772	ND	Trifloxystrobin	44 - 2703	ND

Final Approval



Karen Winternheimer
24Feb2023
08:30:00 AM MST

PREPARED BY / DATE



Sam Smith
24Feb2023
08:32:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/fe07446c-4ad0-4d06-90f9-1b998c941f2a>

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

Citrus Twist Lipo 1000 - 230022

Batch ID or Lot Number: 230022	Test: Mycotoxins	Reported: 23Feb2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000236213	Started: 21Feb2023	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 20Feb2023	Status: Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.25 - 134.56	ND	N/A
Aflatoxin B1	0.94 - 33.17	ND	
Aflatoxin B2	0.98 - 33.20	ND	
Aflatoxin G1	1.04 - 33.23	ND	
Aflatoxin G2	1.07 - 33.72	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Sam Smith
23Feb2023
07:44:00 AM MST

PREPARED BY / DATE



Karen Winternheimer
23Feb2023
07:50:00 AM MST

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<https://results.botanacor.com/api/v1/coas/uuid/81675c09-052a-4eed-9093-bc32612ef300>

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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Cert #4329.02

CDPHE Certified
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Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Sample Name:	Citrus Twist Lipo 1000 - 230022	Eurofins Sample:	12661480
Project ID	ELIXINOL-20230217-0006	Receipt Date	21-Feb-2023
PO Number	PO-0028	Receipt Condition	Ambient temperature
Lot Number	230022	Login Date	17-Feb-2023
Sample Serving Size	1 mL	Date Started	21-Feb-2023
Description	Citrus Twist Lipo 1000 - 230022	Sampled	Sample results apply as received
		Online Order	901-2023-E010408

Analysis

Result

Enterobacteriaceae Plate Count *

Enterobacteriaceae

<10 CFU/g

Glyphosate and AMPA

Glyphosate

AMPA

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_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

**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

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.

* This analysis or component is not ISO accredited.

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