

# CERTIFICATE OF ANALYSIS

Prepared for:  
**Elixinol LLC**

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

## Citrus Twist Lipo 300 - 230021

Batch ID or Lot Number: <b>230021</b>	Test: <b>Potency</b>	Reported: <b>21Feb2023</b>	USDA License: N/A
Matrix: Solution	Test ID: T000236073	Started: 20Feb2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 17Feb2023	Status: Active

## Cannabinoids

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.069	0.218	<LOQ	<LOQ	Density = 1.066592g/mL
Cannabichromenic Acid (CBCA)	0.063	0.199	ND	ND	
Cannabidiol (CBD)	0.217	0.573	10.934	10.25	
Cannabidiolic Acid (CBDA)	0.223	0.588	ND	ND	
Cannabidivarin (CBDV)	0.051	0.136	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.093	0.245	ND	ND	
Cannabigerol (CBG)	0.039	0.124	ND	ND	
Cannabigerolic Acid (CBGA)	0.165	0.517	ND	ND	
Cannabinol (CBN)	0.051	0.161	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.112	0.353	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.196	0.616	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.178	0.559	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.158	0.495	ND	ND	
Tetrahydrocannabivarin (THCV)	0.036	0.112	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.139	0.437	ND	ND	
<b>Total Cannabinoids</b>			<b>10.934</b>	<b>10.25</b>	
Total Potential THC			ND	ND	
Total Potential CBD			10.934	10.25	

## Final Approval

  
Samantha Smith  
21Feb2023  
12:18:00 PM MST

PREPARED BY / DATE

  
Karen Winternheimer  
21Feb2023  
12:22:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/f861f8bc-f606-4156-98bb-87b75c7ecfec>

### 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  
f861f8bcf606415698bb87b75c7ecfec.1

# CERTIFICATE OF ANALYSIS

Prepared for:  
**Elixinol LLC**

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

## Citrus Twist Lipo 300 - 230021

Batch ID or Lot Number: <b>230021</b>	Test: <b>Residual Solvents</b>	Reported: <b>23Feb2023</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000236077	Started: 22Feb2023	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 17Feb2023	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	103 - 2053	ND	
Butanes (Isobutane, n-Butane)	212 - 4247	ND	
Methanol	62 - 1245	ND	
Pentane	106 - 2128	ND	
Ethanol	105 - 2091	336	
Acetone	104 - 2077	ND	
Isopropyl Alcohol	109 - 2176	ND	
Hexane	6 - 127	ND	
Ethyl Acetate	105 - 2096	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	104 - 2081	ND	
Toluene	18 - 366	ND	
Xylenes (m,p,o-Xylenes)	136 - 2716	ND	

## Final Approval

  
Sam Smith  
23Feb2023  
09:08:00 AM MST

PREPARED BY / DATE

  
Karen Winternheimer  
23Feb2023  
09:09:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/1ab6a528-4ab2-42af-b4bf-a9a65d918e0b>

**Definitions**  
ND = None Detected (defined by dynamic range of the method)  
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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.



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# CERTIFICATE OF ANALYSIS

Prepared for:  
**Elixinol LLC**


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

## Citrus Twist Lipo 300 - 230021

Batch ID or Lot Number: <b>230021</b>	Test: <b>Heavy Metals</b>	Reported: <b>23Feb2023</b>	USDA License: NA
Matrix: Unit Co	Test ID: T000236076	Started: 20Feb2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 17Feb2023	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 5.11	ND	
Cadmium	0.05 - 4.94	ND	
Mercury	0.04 - 4.39	ND	
Lead	0.04 - 4.02	ND	

## Final Approval



Sam Smith  
23Feb2023  
03:06:00 PM MST

PREPARED BY / DATE



Karen Winternheimer  
23Feb2023  
03:13:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/001616d3-e096-4030-a659-b20f4d1e5335>

### Definitions

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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 300 - 230021

Batch ID or Lot Number: <b>230021</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>23Feb2023</b>	USDA License: N/A
Matrix: Finished Product	Test ID: T000236075	Started: 20Feb2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 17Feb2023	Status: Active

## Microbial Contaminants

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

## Final Approval



Brett Hudson  
23Feb2023  
12:42:00 PM MST

PREPARED BY / DATE



Brianne Maillot  
23Feb2023  
03:44:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/60391ac4-2d9c-4dea-b7cd-a9723431d011>

### 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<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 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 300 - 230021

Batch ID or Lot Number: <b>230021</b>	Test: <b>Pesticides</b>	Reported: <b>24Feb2023</b>	USDA License: NA
Matrix: Concentrate	Test ID: T000236074	Started: 23Feb2023	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 17Feb2023	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/8ff660d6-421f-4d27-ae1f-9ba871ae3215>

### Definitions

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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 300 - 230021

Batch ID or Lot Number: <b>230021</b>	Test: <b>Mycotoxins</b>	Reported: <b>23Feb2023</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000236079	Started: 21Feb2023	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 17Feb2023	Status: Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.13 - 129.32	ND	N/A
Aflatoxin B1	0.91 - 31.88	ND	
Aflatoxin B2	0.94 - 31.91	ND	
Aflatoxin G1	1.00 - 31.94	ND	
Aflatoxin G2	1.03 - 32.41	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

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/47fc6440-3eb6-426b-8dc7-638f3fa34fd6>

### Definitions

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Cert #4329.02

CDPHE Certified  
47fc64403eb6426b8dc7638f3fa34fd6.1

## Certificate of Analysis

### Elixinol, LLC

10170 Church Ranch  
Westminster Colorado 80021 United States

<b>Sample Name:</b>	<b>Citrus Twist Lipo 300 - 230021</b>	<b>Eurofins Sample:</b>	<b>12657893</b>
<b>Project ID</b>	ELIXINOL-20230216-0005	<b>Receipt Date</b>	21-Feb-2023
<b>PO Number</b>	PO-0029	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	230021	<b>Login Date</b>	16-Feb-2023
<b>Description</b>	Citrus Twist Lipo 300 - 230021	<b>Date Started</b>	21-Feb-2023
		<b>Sampled</b>	Sample results apply as received
		<b>Online Order</b>	901-2023-E010122

#### Analysis

#### Result

##### Enterobacteriaceae Plate Count \*

Enterobacteriaceae

<10 CFU/g

##### Glyphosate and AMPA

Glyphosate

<100 ng/g

AMPA

<100 ng/g

#### 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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Page 1 of 1