

Prepared for:

Sports Gel XL - 23J12L12
Elixinol LLC

Batch ID or Lot Number: 23J12L12	Test: Potency	Reported: 12/29/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
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Matrix: Concentrate	Test ID: T000184335	Started: 12/28/21	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 12/22/2021 @ 01:21 PM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.012	0.044	ND	ND	N/A
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.013	0.050	ND	ND	
Cannabidiolic acid (CBDA)	0.019	0.056	ND	ND	
Cannabidiol (CBD)	0.018	0.055	1.521	15.21	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.014	0.055	ND	ND	
Cannabinolic Acid (CBNA)	0.008	0.031	ND	ND	
Cannabinol (CBN)	0.004	0.014	ND	ND	
Cannabigerolic acid (CBGA)	0.012	0.046	ND	ND	
Cannabigerol (CBG)	0.003	0.011	0.017	0.17	
Tetrahydrocannabivarinic Acid (THCVA)	0.010	0.039	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.010	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.008	0.023	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	0.011*	0.11*	
Cannabichromenic Acid (CBCA)	0.005	0.018	ND	ND	
Cannabichromene (CBC)	0.005	0.019	ND	ND	
Total Cannabinoids			1.549	15.49	
Total Potential THC**			ND	ND	
Total Potential CBD**			1.521	15.21	


 Sam Smith
 29-Dec-2021
 08:46 PM


 Ryan Weems
 29-Dec-21
 8:50 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.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

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

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.



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Certificate #4329.02

Prepared for:

Sports Gel XL - 23J12L12
Elixinol LLC

Batch ID or Lot Number: 23J12L12	Test: Pesticides	Reported: 12/29/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
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Matrix: Concentrate	Test ID: t000184336	Started: 12/28/21	USDA License: N/A
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Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 12/22/2021 @ 01:21 PM	Sampler ID: N/A
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PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	40	ND	Fenoxycarb	44	ND	Paclobutrazol	41	ND
Acetamiprid	42	ND	Fipronil	40	ND	Permethrin	301	ND
Avermectin	388	ND	Flonicamid	39	ND	Phosmet	42	ND
Azoxystrobin	44	ND	Fludioxonil	287	ND	Prophos	284	ND
Bifenazate	41	ND	Hexythiazox	38	ND	Propoxur	41	ND
Boscalid	41	ND	Imazalil	291	ND	Pyridaben	299	ND
Carbaryl	34	ND	Imidacloprid	45	ND	Spinosad A	35	ND
Carbofuran	39	ND	Kresoxim-methyl	150	ND	Spinosad D	53	ND
Chlorantraniliprole	46	ND	Malathion	281	ND	Spiromesifen	282	ND
Chlorpyrifos	500	ND	Metalaxyl	44	ND	Spirotetramat	290	ND
Clofentezine	291	ND	Methiocarb	43	ND	Spiroxamine 1	17	ND
Diazinon	282	ND	Methomyl	43	ND	Spiroxamine 2	22	ND
Dichlorvos	292	ND	MGK 264 1	170	ND	Tebuconazole	284	ND
Dimethoate	41	ND	MGK 264 2	115	ND	Thiacloprid	40	ND
E-Fenpyroximate	292	ND	Myclobutanil	38	ND	Thiamethoxam	39	ND
Etofenprox	41	ND	Naled	40	ND	Trifloxystrobin	40	ND
Etoxazole	304	ND	Oxamyl	1500	ND			


 Sam Smith
 12/29/2021
 9:54:00 AM


 Courtney Richards
 12/29/2021
 1:38:00 PM

PREPARED BY / DATE

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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.



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Prepared for:

Sports Gel XL - 23J12L12
Elixinol LLC

Batch ID or Lot Number: 23J12L12	Test: Metals	Reported: 12/29/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
Matrix: Unit Co	Test ID: t000184338	Started: 12/28/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS); Heavy Metals (Colorado Panel)	Received: 12/22/2021 @ 01:21 PM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.047 - 4.65	ND	
Cadmium	0.046 - 4.63	ND	
Mercury	0.046 - 4.63	ND	
Lead	0.047 - 4.66	ND	


 Sam Smith
 29-Dec-21
 5:49 PM

PREPARED BY / DATE


 Ryan Weems
 29-Dec-21
 5:52 PM

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Definitions

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

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Prepared for:

Sports Gel XL - 23J12L12
Elixinol LLC

Batch ID or Lot Number: 23J12L12	Test: Residual Solvents	Reported: 12/28/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
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Matrix: N/A	Test ID: T000184339	Started: 12/28/21	USDA License: N/A
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Status: N/A	Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel)	Received: 12/22/2021 @ 01:21 PM	Sampler ID: N/A
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RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	70 - 1406	*ND	
Butanes (Isobutane, n-Butane)	143 - 2862	*ND	
Methanol	56 - 1128	*ND	
Pentane	78 - 1561	*ND	
Ethanol	91 - 1820	*ND	
Acetone	92 - 1837	*ND	
Isopropyl Alcohol	94 - 1875	*ND	
Hexane	5 - 104	*ND	
Ethyl Acetate	89 - 1786	*ND	
Benzene	0.2 - 3.6	*ND	
Heptanes	87 - 1731	*ND	
Toluene	17 - 334	*ND	
Xylenes (m,p,o-Xylenes)	123 - 2467	*ND	


 Hannah Wright
 28-Dec-21
 4:05 PM


 Ryan Weems
 28-Dec-21
 4:09 PM

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Definitions

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Certificate #4329.02

Prepared for:

Sports Gel XL - 23J12L12
Elixinol LLC


Batch ID or Lot Number: 23J12L12	Test: Microbial Contaminants	Reported: 12/30/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
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Matrix: Finished Product	Test ID: T000184337	Started: 12/27/21	USDA License: N/A
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Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 12/22/2021 @ 01:21 PM	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	None Detected	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	


 Sarah Henning
 12/30/2021
 2:44:00 PM


 Jackson Osaghae-Nosa
 12/30/2021
 3:10:00 PM

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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:

Sports Gel XL - 23J12L12
Elixinol LLC


Batch ID or Lot Number: 23J12L12	Test: Mycotoxins	Reported: 12/30/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
Matrix: Concentrate	Test ID: T000184340	Started: 12/29/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 12/22/2021 @ 01:21 PM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.5 - 132.4	ND	N/A
Aflatoxin B1	1 - 32.9	ND	
Aflatoxin B2	1 - 32.9	ND	
Aflatoxin G1	1 - 32.9	ND	
Aflatoxin G2	1.1 - 32.3	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	


 Ryan Weems
 30-Dec-21
 3:01 PM

PREPARED BY / DATE


 Sam Smith
 30-Dec-21
 3:12 PM

APPROVED BY / DATE

Definitions

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Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Sample Name:	Sports Gel XL - 23J12L12	Eurofins Sample:	11281141
Project ID	ELIXINOL-20211222-0052	Receipt Date	24-Dec-2021
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	23J12L12	Login Date	22-Dec-2021
Sample Serving Size	5 mL	Date Started	29-Dec-2021
		Sampled	Sample results apply as received
		Online Order	13484-1685F7A9

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

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)

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.

Printed: 06-Jan-2022 9:11 pm

Page 1 of 1