

Certificate of Analysis

Elixinol, LLC

638 S Taylor Street
Louisville Colorado 80027 United States

Sample Name:	19091301-01	Eurofins Sample:	9044886
Project ID	ELIXINOL-20191122-0123	Receipt Date	22-Nov-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	19091301-01	Login Date	22-Nov-2019
Sample Serving Size	1 Cap	Date Started	25-Nov-2019
		Online Order	13484-129A9D69

Analysis	Result
Calculated Sample Weight *	
Entity Weight	0.5802 g
Entity Fill Weight	0.4679 g
Industrial Hemp Cannabinoid Profile	
CBDVA	0.0214 mg/Serving Size
CBDV	0.109 mg/Serving Size
CBDA	2.29 mg/Serving Size
CBGA	0.0325 mg/Serving Size
CBG	0.132 mg/Serving Size
CBD	13.8 mg/Serving Size
THCV	<0.0117 mg/Serving Size
CBN	0.0154 mg/Serving Size
Delta 9-THC	0.265 mg/Serving Size
Delta 8-THC	<0.0234 mg/Serving Size
THCA	<0.0117 mg/Serving Size
CBC	0.174 mg/Serving Size
Total Cannabinoids	16.8 mg/Serving Size
Total THC (THC + (THCA x 0.877))	0.265 mg/Serving Size
Total CBD (CBD + (CBDA x 0.877))	15.8 mg/Serving Size

Method References	Testing Location
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Calculated Sample Weight (PREP)	Food Integrity Innovation-Madison
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Industrial Hemp Cannabinoid Profile (IHCBD_S)	Food Integrity Innovation-Madison
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Official Methods of Analysis, Method 2018.11, AOAC INTERNATIONAL, (Modified). Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection, " First Action Method, Journal of AOAC International, Future Issue

* This analysis or component is not ISO accredited.

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Certificate of Analysis

Elixinol, LLC

638 S Taylor Street
Louisville Colorado 80027 United States

Testing Location(s)**Released on Behalf of Eurofins by****Food Integrity Innovation-Madison****Edward Ladwig - Director**

Eurofins Food Chemistry Testing US, Inc.
3301 Kinsman Blvd
Madison WI 53704
800-675-8375



2918.01

These results apply to the sample as received and only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins.

980005

Batch ID:	980005	Test ID:	6665067.007
Reported:	11-Aug-2019	Method:	Concentrate - Test Methods: TM05, TM06
Type:	Concentrate		
Test:	Microbial Contaminants		

MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
<i>E. coli</i>	None Detected
<i>Salmonella</i>	None Detected

* CFU/g = Colony Forming Unit per Gram

** Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: $10^2 = 100$ CFU
 $10^3 = 1,000$ CFU
 $10^4 = 10,000$ CFU
 $10^5 = 100,000$ CFU

NOTES:

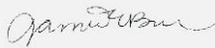
Free from visual mold, mildew, and foreign matter

TYM: None Detected

Total Aerobic: None Detected

Coliforms: None Detected

FINAL APPROVAL


Jamie Bunker
11-Aug-2019
1:45 PM
Greg Zimpfer
11-Aug-2019
1:50 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Services, LLC, in the condition it was received. Botanacor Services, 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 Services, LLC.



prepared for: ELIXINOL
555 BURBANK ST. UNIT J
BROOMFIELD, CO 80020

980005

Batch ID:	980005	Test ID:	6094602.008
Reported:	9-Aug-2019	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS

Solvent	Reportable Range (ppm)	Result (ppm)
Propane	100 - 2000	0
Butanes (Isobutane, n-Butane)	100 - 2000	0
Pentane	100 - 2000	0
Ethanol	100 - 2000	0
Acetone	100 - 2000	0
Isopropyl Alcohol	100 - 2000	0
Hexane	6 - 120	0
Benzene	0.2 - 4	0.0
Heptanes	100 - 2000	0
Toluene	18 - 360	0
Xylenes (m,p,o-Xylenes)	43 - 860	0

NOTES:

Free from visual mold, mildew, and foreign matter.

FINAL APPROVAL


 Sam Smith
 9-Aug-2019
 1:05 PM


 David Green
 9-Aug-2019
 2:08 PM

PREPARED BY / DATE

APPROVED BY / DATE

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 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02

Certificate of Analysis

Elixinol, LLC

555 Burbank St. Unit J
Broomfield Colorado 80020 United States

Sample Name:	980005	Eurofins Sample:	8711471
Project ID	ELIXINOL-20190807-0066	Receipt Date	07-Aug-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	980005	Login Date	07-Aug-2019
Sample Serving Size		Date Started	07-Aug-2019
		Online Order	13484-120D8766

Analysis	Result
Enterobacteriaceae (Bile-Tolerant Gram-Negative Bacteria) *	
Enterobacterial Count	<10 MPN/mL
Preparatory Testing of Nutritional and Dietary Supplements *	
Bile-Tolerant Gram-Neg Bacteria Suitability Result	Pass**
Metals Analysis by ICP-MS	
Arsenic	<0.0763 ppm
Cadmium	<0.0191 ppm
Lead	<0.0191 ppm
Mercury	<0.00953 ppm
Glyphosate and AMPA *	
Glyphosate	<100 ng/g
AMPA	<100 ng/g
Multi-Residue Analysis for hemp products - 60+ compounds	
Matrix Type - To Determine Limit of Quantification (LOQ)	High-Fat Food Matrices
Abamectin	<0.05 mg/kg
Aldicarb	<0.05 mg/kg
Aldicarb sulfone (Aldoxycarb)	<0.05 mg/kg
Aldicarb sulfoxide	<0.05 mg/kg
Azoxystrobin	<0.05 mg/kg
Bifenazate	0.019 mg/kg
Bifenthrin	<0.05 mg/kg
Carbaryl	<0.05 mg/kg
Carbofuran	<0.05 mg/kg
Carbofuran-3-hydroxy-	<0.05 mg/kg
Chlorantraniliprole	<0.05 mg/kg
Chlordane, cis-	<0.05 mg/kg
Chlordane, trans-	<0.05 mg/kg
Chlorfenapyr	<0.05 mg/kg
Chlorpyrifos	<0.05 mg/kg
Coumaphos	<0.05 mg/kg
Cyfluthrin	<0.05 mg/kg
Cypermethrin	<0.05 mg/kg
Cyproconazole (2 diastereoisomers)	<0.05 mg/kg
Cyprodinil	<0.05 mg/kg
Dichlorvos	<0.05 mg/kg

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Project ID	ELIXINOL-20190807-0066	Receipt Date	07-Aug-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	980005	Login Date	07-Aug-2019
Sample Serving Size		Date Started	07-Aug-2019
		Online Order	13484-120D8766

Analysis

Result

Multi-Residue Analysis for hemp products - 60+ compounds

Diclobutrazol	<0.05 mg/kg
Dipropetryn	<0.05 mg/kg
Disulfoton	<0.05 mg/kg
Endosulfan I (alpha-isomer)	<0.05 mg/kg
Endosulfan II (beta-isomer)	<0.05 mg/kg
Endosulfan sulfate	<0.05 mg/kg
Epoxiconazole	<0.05 mg/kg
Ethiofencarb	<0.05 mg/kg
Etofenprox	<0.05 mg/kg
Etoxazole	<0.05 mg/kg
Fenoxycarb	<0.05 mg/kg
Fenpropathrin	<0.05 mg/kg
Fenvalerate/Esfenvalerate (sum of isomers)	<0.05 mg/kg
Fipronil	<0.05 mg/kg
Fipronil desulfinyl	<0.05 mg/kg
Fipronil sulfone	<0.05 mg/kg
Imazalil	<0.05 mg/kg
Imidacloprid	<0.05 mg/kg
Malathion	<0.05 mg/kg
Methiocarb	<0.05 mg/kg
Methiocarb sulfone	<0.05 mg/kg
Methiocarb sulfoxide	<0.05 mg/kg
Methomyl	<0.05 mg/kg
Mevinphos (E- and Z-isomers)	<0.05 mg/kg
Myclobutanil	<0.05 mg/kg
Naled (Dibrom)	<0.05 mg/kg
Paclobutrazol	<0.05 mg/kg
Permethrin (sum of isomers)	<0.05 mg/kg
Propoxur	<0.05 mg/kg
Spinetoram (spinosyns J and L)	<0.05 mg/kg
Spinosad (spinosyns A and D)	<0.05 mg/kg
Spirodiclofen	<0.05 mg/kg
Spiromesifen	<0.05 mg/kg
Spiromesifen enol	<0.05 mg/kg

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Lot Number	980005	Login Date	07-Aug-2019
Sample Serving Size		Date Started	07-Aug-2019
		Online Order	13484-120D8766

Analysis

Result

Multi-Residue Analysis for hemp products - 60+ compounds

Spirotetramat	<0.05 mg/kg
Spiroxamine (2 diastereoisomers)	<0.05 mg/kg
Tebuconazole	<0.05 mg/kg
Thiabendazole	<0.05 mg/kg
Thiabendazole-5-hydroxy-	<0.05 mg/kg
Thiacloprid	<0.05 mg/kg
Trifloxystrobin	<0.05 mg/kg
Metolachlor	<0.05 mg/kg
Pyrethrum (total)	<0.50 mg/kg

Method References

Testing Location

Enterobacteriaceae (Bile-Tolerant Gram-Negative Bacteria) (USPN2021)

Food Integ. Innovation-Madison NE

USP Current revision, Chapter 2021.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

Glyphosate and AMPA (GLY_AMP_A_S)

Food Integ. Innovation-Greenfield

Monsanto Company Method ME-1466-02, "High Throughput Assay for Glyphosate and AMPA in Raw Agricultural Commodities and Processed Fractions Using LC/MS/MS".

Metals Analysis by ICP-MS (ICP_MS_B_S)

Food Integrity Innovation-Boulder

Methods for the Determination of Metals in Environmental Standards - Supplement 1, EPA-600/R-94-111, May 1994.

"Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry", USEPA Method 200.8, Revision 5.1, EMMC Version.

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Broomfield Colorado 80020 United States

Method References

Testing Location

Multi-Residue Analysis for hemp products - 60+ compounds (PEST_HEMP)

Food Integ. Innovation-Greenfield

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

List of the tested pesticides and their limits of quantification (LOQs) are available upon request.

Preparatory Testing of Nutritional and Dietary Supplements (USPN_PT)

Food Integ. Innovation-Madison NE

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Boulder

Ian Laessig - Manager

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AT-1816

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2918.06

Food Integ. Innovation-Madison NE

Richard Higby - Director

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