

Certificate of Analysis

Elixinol, LLC

638 S Taylor Street
Louisville Colorado 80027 United States

Sample Name:	Hemp Oil 45 Capsules 19091201-01	Eurofins Sample:	9014054
Project ID	ELIXINOL-20191113-0118	Receipt Date	13-Nov-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	Hemp Oil 45 Capsules 19091201-01	Login Date	13-Nov-2019
Sample Serving Size	1 Cap	Date Started	14-Nov-2019
		Online Order	13484-128EB960

Analysis	Result
Calculated Sample Weight *	
Entity Weight	0.5820 g
Entity Fill Weight	0.4624 g
Industrial Hemp Cannabinoid Profile	
CBDVA	<0.0116 mg/Serving Size
CBDV	0.0869 mg/Serving Size
CBDA	1.43 mg/Serving Size
CBGA	<0.0116 mg/Serving Size
CBG	<0.0116 mg/Serving Size
CBD	41.5 mg/Serving Size
THCV	<0.0116 mg/Serving Size
CBN	<0.0116 mg/Serving Size
Delta 9-THC	0.0474 mg/Serving Size
Delta 8-THC	<0.0231 mg/Serving Size
THCA	<0.0116 mg/Serving Size
CBC	0.0336 mg/Serving Size
Total Cannabinoids	43.1 mg/Serving Size
Total THC (THC + (THCA x 0.877))	0.0472 mg/Serving Size
Total CBD (CBD + (CBDA x 0.877))	42.8 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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Louisville Colorado 80027 United States

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

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

Edward Ladwig - Director



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.

940034-A

Batch ID:	940034-A	Test ID:	3187620.017
Reported:	15-Apr-2019	Method:	Concentrate - Test Method: TM05
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

Robert Belfon
15-Apr-2019
5:07 PMDavid Green
15-Apr-2019
6:14 PM

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.

940034-A

Batch ID:	940034-A	Test ID:	7766309.023
Reported:	17-Apr-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 17-Apr-2019 6:55 AM	 David Green 17-Apr-2019 8:19 AM
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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 Street
Unit J
Broomfield Colorado 80020 United States

Sample Name:	940034	Eurofins Sample:	8351285
Project ID	ELIXINOL-20190415-0026	Receipt Date	15-Apr-2019
PO Number	Charge/AMEX	Receipt Condition	Ambient temperature
Lot Number	940034	Login Date	15-Apr-2019
Sample Serving Size		Date Started	15-Apr-2019

Analysis

Result

Metals Analysis by ICP-MS

Arsenic	<0.0784 ppm
Cadmium	<0.0196 ppm
Lead	<0.0196 ppm
Mercury	<0.00980 ppm

Multi-Residue Analysis for hemp products - 60+ compounds

Matrix Type - To Determine Limit of Quantification (LOQ)	High-Fat Food Matrices
Chlorfenapyr	non-analyzable
Cyfluthrin	non-analyzable
Cypermethrin	non-analyzable
Endosulfan I (alpha-isomer)	non-analyzable
Endosulfan II (beta-isomer)	non-analyzable
Endosulfan sulfate	non-analyzable
Etoxazole	<0.05 mg/kg
Fipronil	non-analyzable
Fipronil sulfone	non-analyzable
Pyrethrum (total)	<0.50 mg/kg
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	<0.05 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

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PO Number	Charge/AMEX	Receipt Condition	Ambient temperature
Lot Number	940034	Login Date	15-Apr-2019
Sample Serving Size		Date Started	15-Apr-2019

Analysis

Result

Multi-Residue Analysis for hemp products - 60+ compounds

Chlorpyrifos	<0.05 mg/kg
Coumaphos	<0.05 mg/kg
Cyproconazole (2 diastereoisomers)	<0.05 mg/kg
Cyprodinil	<0.05 mg/kg
Dichlorvos	<0.05 mg/kg
Diclobutrazol	<0.05 mg/kg
Dipropetryn	<0.05 mg/kg
Disulfoton	<0.05 mg/kg
Epoxiconazole	<0.05 mg/kg
Ethiofencarb	<0.05 mg/kg
Etofenprox	<0.05 mg/kg
Fenoxycarb	<0.05 mg/kg
Fenpropathrin	<0.05 mg/kg
Fenvalerate/Esfenvalerate (sum of isomers)	<0.05 mg/kg
Fipronil desulfinyl	<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
Metolachlor	<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

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PO Number	Charge/AMEX	Receipt Condition	Ambient temperature
Lot Number	940034	Login Date	15-Apr-2019
Sample Serving Size		Date Started	15-Apr-2019

Analysis

Result

Multi-Residue Analysis for hemp products - 60+ compounds

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
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

Method References

Testing Location

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.

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.

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Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Boulder

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AT-1816

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Eurofins Food Integrity and Innovation accepts all liability for work conducted as of 01 Aug 2018.

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