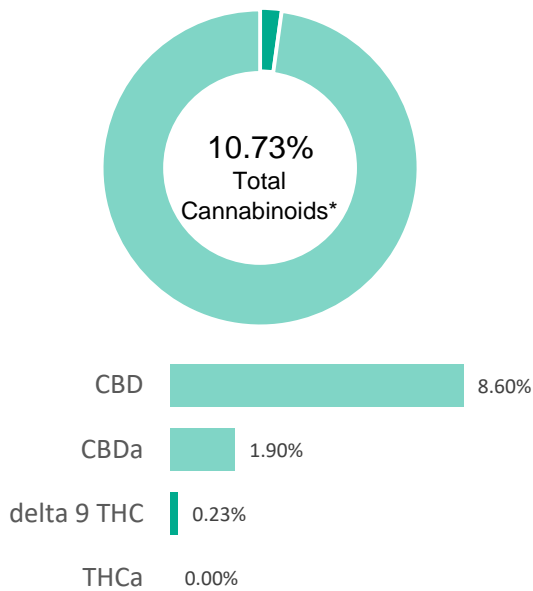


**940081**

<b>Batch ID:</b>	940081	<b>Test ID:</b>	1627149.0073
<b>Reported:</b>	1-May-2019	<b>Method:</b>	TM14
<b>Type:</b>	Concentrate		
<b>Test:</b>	Potency		

**CANNABINOID PROFILE**


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.20	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.10	0.23	2.3
Cannabidiolic acid (CBDA)	0.25	1.90	19.0
Cannabidiol (CBD)	0.14	8.60	86.0
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.11	0.00	0.0
Cannabinolic Acid (CBNA)	0.27	0.00	0.0
Cannabinol (CBN)	0.12	0.00	0.0
Cannabigerolic acid (CBGA)	0.17	0.00	0.0
Cannabigerol (CBG)	0.10	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.17	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.09	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.24	0.00	0.0
Cannabidivarin (CBDV)	0.13	0.00	0.0
Cannabichromenic Acid (CBCA)	0.15	0.00	0.0
Cannabichromene (CBC)	0.18	0.00	0.0
<b>Total Cannabinoids</b>		<b>10.73</b>	<b>107.30</b>
Total Potential THC**		0.23	2.30
Total Potential CBD**		10.27	102.66


**NOTES:**

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)


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

\*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and } \text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$
**FINAL APPROVAL**


**Karen Winternheimer**  
 1-May-2019  
 2:50 PM

PREPARED BY / DATE



**David Green**  
 1-May-2019  
 3:16 PM

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



940081

<b>Batch ID:</b>	940081	<b>Test ID:</b>	7790067.009
<b>Reported:</b>	29-Apr-2019	<b>Method:</b>	Concentrate - Test Methods: TM05, TM06
<b>Type:</b>	Concentrate		
<b>Test:</b>	Microbial Contaminants		

## MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
<b>Total Aerobic Count**</b>	None Detected
<b>Total Coliforms**</b>	None Detected
<b>Total Yeast and Molds**</b>	None Detected
<b><i>E. coli</i></b>	None Detected
<b><i>Salmonella</i></b>	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  
29-Apr-2019  
9:57 AM



David Green  
29-Apr-2019  
10:02 AM

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.

940081

<b>Batch ID:</b>	940081	<b>Test ID:</b>	2185529.017
<b>Reported:</b>	2-May-2019	<b>Method:</b>	TM04
<b>Type:</b>	Concentrate		
<b>Test:</b>	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

Alex Smith  
2-May-2019  
5:08 PMMike Branvold  
2-May-2019  
7:42 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 Street, Unit J  
Broomfield Colorado 80020 United States

<b>Sample Name:</b>	<b>940081</b>	<b>Eurofins Sample:</b>	<b>8408060</b>
<b>Project ID</b>	ELIXINOL-20190501-0033	<b>Receipt Date</b>	01-May-2019
<b>PO Number</b>	Charge/AMEX	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	940081	<b>Login Date</b>	01-May-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	01-May-2019

Analysis	Result
<b>Metals Analysis by ICP-MS</b>	
Arsenic	<0.0779 ppm
Cadmium	<0.0195 ppm
Lead	0.0481 ppm
Mercury	<0.00973 ppm
<b>Multi-Residue Analysis for hemp products - 60+ compounds</b>	
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	0.36 mg/kg
Bifenthrin	non-analyzable
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	0.033 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
Diclobutrazol	<0.05 mg/kg
Dipropetryn	<0.05 mg/kg
Disulfoton	<0.05 mg/kg

## Certificate of Analysis

### Elixinol, LLC

555 Burbank Street, Unit J  
Broomfield Colorado 80020 United States

<b>Sample Name:</b>	<b>940081</b>	<b>Eurofins Sample:</b>	<b>8408060</b>
<b>Project ID</b>	ELIXINOL-20190501-0033	<b>Receipt Date</b>	01-May-2019
<b>PO Number</b>	Charge/AMEX	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	940081	<b>Login Date</b>	01-May-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	01-May-2019

#### Analysis

#### Result

#### Multi-Residue Analysis for hemp products - 60+ compounds

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	0.020 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	0.016 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)	0.064 mg/kg
Propoxur	<0.05 mg/kg
Pyrethrum (total)	<0.50 mg/kg
Spinetoram (spinosyns J and L)	<0.05 mg/kg
Spinosad (spinosyns A and D)	<0.05 mg/kg

## Certificate of Analysis

### Elixinol, LLC

555 Burbank Street, Unit J  
Broomfield Colorado 80020 United States

<b>Sample Name:</b>	<b>940081</b>	<b>Eurofins Sample:</b>	<b>8408060</b>
<b>Project ID</b>	ELIXINOL-20190501-0033	<b>Receipt Date</b>	01-May-2019
<b>PO Number</b>	Charge/AMEX	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	940081	<b>Login Date</b>	01-May-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	01-May-2019

#### Analysis

#### Result

#### Multi-Residue Analysis for hemp products - 60+ compounds

Spirodiclofen	non-analyzable
Spiromesifen	<0.05 mg/kg
Spiromesifen enol	<0.05 mg/kg
Spirotetramat	<0.05 mg/kg
Spiroxamine (2 diastereoisomers)	<0.05 mg/kg
Tebuconazole	0.026 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.

## Certificate of Analysis

Elixinol, LLC

555 Burbank Street, Unit J  
Broomfield Colorado 80020 United States

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**Testing Location(s)**

**Released on Behalf of Eurofins by**

**Food Integrity Innovation-Boulder**

Eurofins Food Chemistry Testing US, Inc.  
2830 Wilderness Pl  
Boulder CO 80301  
800-675-8375

**Ian Laessig - Manager**



AT-1816

**Food Integ. Innovation-Greenfield**

Eurofins Food Chemistry Testing US, Inc.  
671 S. Meridian Road  
Greenfield IN 46140  
800-675-8375

**Karelyn Koehn - Manager**



2918.06

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