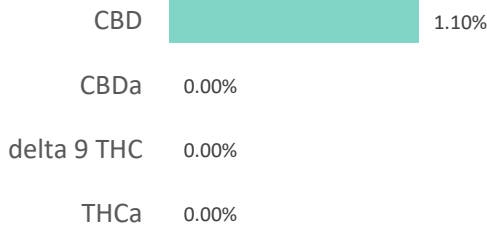
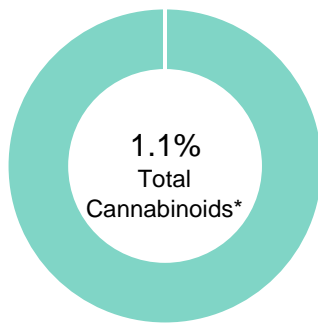


**940039 RETEST**

|                  |               |                 |             |
|------------------|---------------|-----------------|-------------|
| <b>Batch ID:</b> | 940039 RETEST | <b>Test ID:</b> | 7899244.002 |
| <b>Reported:</b> | 22-Apr-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) | 0.13    | 0.00        | 0.0           |
| Delta 9-Tetrahydrocannabinol (Delta 9THC)    | 0.07    | 0.00        | 0.0           |
| Cannabidiolic acid (CBDA)                    | 0.16    | 0.00        | 0.0           |
| Cannabidiol (CBD)                            | 0.09    | 1.10        | 11.0          |
| Delta 8-Tetrahydrocannabinol (Delta 8THC)    | 0.07    | 0.00        | 0.0           |
| Cannabinolic Acid (CBNA)                     | 0.18    | 0.00        | 0.0           |
| Cannabinol (CBN)                             | 0.08    | 0.00        | 0.0           |
| Cannabigerolic acid (CBGA)                   | 0.12    | 0.00        | 0.0           |
| Cannabigerol (CBG)                           | 0.07    | 0.00        | 0.0           |
| Tetrahydrocannabivarinic Acid (THCVA)        | 0.12    | 0.00        | 0.0           |
| Tetrahydrocannabivarin (THCV)                | 0.06    | 0.00        | 0.0           |
| Cannabidivarinic Acid (CBDVA)                | 0.15    | 0.00        | 0.0           |
| Cannabidivarin (CBDV)                        | 0.08    | 0.00        | 0.0           |
| Cannabichromenic Acid (CBCA)                 | 0.10    | 0.00        | 0.0           |
| Cannabichromene (CBC)                        | 0.12    | 0.00        | 0.0           |
| <b>Total Cannabinoids</b>                    |         | <b>1.10</b> | <b>11.00</b>  |
| Total Potential THC**                        |         | 0.00        | 0.00          |
| Total Potential CBD**                        |         | 1.10        | 11.00         |


**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.

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


Sam Smith  
22-Apr-2019  
4:30 PM

PREPARED BY / DATE



David Green  
22-Apr-2019  
4:33 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



940039

|                  |                        |                 |                                 |
|------------------|------------------------|-----------------|---------------------------------|
| <b>Batch ID:</b> | 940039                 | <b>Test ID:</b> | 3187620.021                     |
| <b>Reported:</b> | 15-Apr-2019            | <b>Method:</b>  | Concentrate - Test Method: TM05 |
| <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  
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.



40 West Louise Ave., Salt Lake City, UT 84115  
 Phone: (801) 485-1800 Fax: (801) 484-9211  
 Email: utlab@advancedlabsinc.com  
**FDA Registration #3006423386**

If you liked our service, please tell a friend. If you didn't, please tell us!

## Test Certificate

Description: 940039  
 Sample ID:  
 Lot No: 940039  
 Part Code:  
 Location:  
 PO No:  
 Received: 4/23/2019

Client: Elixinol  
 Attn: Accounts Payable  
 555 Burbank Street  
 Broomfield, CO 80220

Lab No: 170327-02  
 Completed: 4/30/2019

| Analysis                    | Result | Per Unit | Method         |
|-----------------------------|--------|----------|----------------|
| †Residual Solvent Class 1   | <0.1   | ppm      | USP <467> GCMS |
| †Residual Solvent Class 2   | <0.1   | ppm      | USP <467> GCMS |
| †Residual Solvent Class 3   | <0.1   | ppm      | USP <467> GCMS |
| †Residual Organic Volatiles | <0.1   | ppm      | USP <467> GCMS |

Residual Organic Volatiles, Residual Solvent Class 1, Residual Solvent Class 2 and Residual Solvent Class 3 analysis performed by headspace sampling GC-MS on a capillary column stationary phase of BPX5, 0.25m film: length: 30m x 0.1 mm ID. Oven Program: Initial Temp:50°C, 1 min. Rate 1: 30°C/min. Final Temp: 320°C, 2 min. Detector Type: MS in positive ion Temperature: 320°C Carrier Gas: He, 23psi. Average Linear Velocity:30 cm/sec at 50°C. Injection Mode: Split. Split Ratio: 100:1. Injection Volume: 1.0 µL Injection Temperature: 250°C Liner Type: 4 mm ID Single Taper.

**THESE RESULTS APPLY ONLY TO THE SAMPLE SUBMITTED AND NOT TO THE PRODUCT FROM WHICH IT WAS TAKEN. THESE RESULTS ARE PROVIDED ONLY FOR THE BENEFIT OF CLIENT, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT FOR THE EXPRESS LIMITED WARRANTY PROVIDED SOLELY TO CLIENT IN ADVANCED LABORATORIES' TERMS OF SERVICE.**

**THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL FROM ADVANCED LABORATORIES.**

Results Approved By:   
 Alisa Farnsworth-Quality Technician

Dated: 4/30/2019

Tests marked with † were done at Atlas Bioscience Labs, LLC, a joint venture with Advanced Laboratories. - 1775 S. Pantano Rd - Ste #110, Tucson, AZ 85710

Printed: 4/30/2019 4:25:16 PM



## Certificate of Analysis

### Elixinol, LLC

555 Burbank Street  
Unit J  
Broomfield Colorado 80020 United States

|                            |                        |                          |                     |
|----------------------------|------------------------|--------------------------|---------------------|
| <b>Sample Name:</b>        | <b>940039</b>          | <b>Eurofins Sample:</b>  | <b>8361309</b>      |
| <b>Project ID</b>          | ELIXINOL-20190417-0027 | <b>Receipt Date</b>      | 17-Apr-2019         |
| <b>PO Number</b>           | Charge/AMEX            | <b>Receipt Condition</b> | Ambient temperature |
| <b>Lot Number</b>          | 940039                 | <b>Login Date</b>        | 17-Apr-2019         |
| <b>Sample Serving Size</b> |                        | <b>Date Started</b>      | 17-Apr-2019         |

#### Analysis

#### Result

##### Metals Analysis by ICP-MS

|         |              |
|---------|--------------|
| Arsenic | <0.0764 ppm  |
| Cadmium | <0.0191 ppm  |
| Lead    | 0.0508 ppm   |
| Mercury | <0.00955 ppm |

##### 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   | <0.05 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            |
| Chlorfenapyr   | non-analyzable         |
| Chlorpyrifos   | <0.05 mg/kg            |
| Coumaphos  | <0.05 mg/kg            |
| Cyfluthrin   | non-analyzable         |
| 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            |

## Certificate of Analysis

### Elixinol, LLC

555 Burbank Street  
Unit J  
Broomfield Colorado 80020 United States

|                            |                        |                          |                     |
|----------------------------|------------------------|--------------------------|---------------------|
| <b>Sample Name:</b>        | <b>940039</b>          | <b>Eurofins Sample:</b>  | <b>8361309</b>      |
| <b>Project ID</b>          | ELIXINOL-20190417-0027 | <b>Receipt Date</b>      | 17-Apr-2019         |
| <b>PO Number</b>           | Charge/AMEX            | <b>Receipt Condition</b> | Ambient temperature |
| <b>Lot Number</b>          | 940039                 | <b>Login Date</b>        | 17-Apr-2019         |
| <b>Sample Serving Size</b> |                        | <b>Date Started</b>      | 17-Apr-2019         |

#### Analysis

#### Result

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

|  |                |
|--|----------------|
| Disulfoton                                 | <0.05 mg/kg    |
| Endosulfan I (alpha-isomer)                | non-analyzable |
| Endosulfan II (beta-isomer)                | non-analyzable |
| Endosulfan sulfate                         | non-analyzable |
| 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                           | non-analyzable |
| 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    |
| Pyrethrum (total)                          | <0.50 mg/kg    |

## Certificate of Analysis

### Elixinol, LLC

555 Burbank Street  
Unit J  
Broomfield Colorado 80020 United States

|                            |                        |                          |                     |
|----------------------------|------------------------|--------------------------|---------------------|
| <b>Sample Name:</b>        | <b>940039</b>          | <b>Eurofins Sample:</b>  | <b>8361309</b>      |
| <b>Project ID</b>          | ELIXINOL-20190417-0027 | <b>Receipt Date</b>      | 17-Apr-2019         |
| <b>PO Number</b>           | Charge/AMEX            | <b>Receipt Condition</b> | Ambient temperature |
| <b>Lot Number</b>          | 940039                 | <b>Login Date</b>        | 17-Apr-2019         |
| <b>Sample Serving Size</b> |                        | <b>Date Started</b>      | 17-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.

## Certificate of Analysis

Elixinol, LLC

555 Burbank Street

Unit J

Broomfield Colorado 80020 United States

### Testing Location(s)

Released on Behalf of Eurofins by

#### Food Integrity Innovation-Boulder

Ian Laessig - Manager

Eurofins Food Chemistry Testing US, Inc.

2830 Wilderness Pl

Boulder CO 80301

800-675-8375



AT-1816

#### Food Integ. Innovation-Greenfield

Karelyn Koehn - Manager

Eurofins Food Chemistry Testing US, Inc.

671 S. Meridian Road

Greenfield IN 46140

800-675-8375



2918.06

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