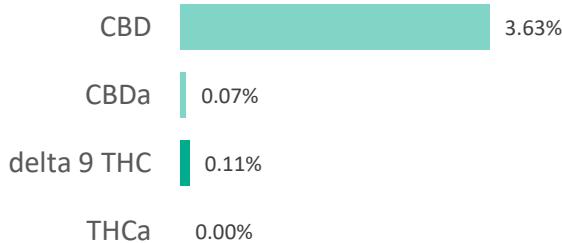
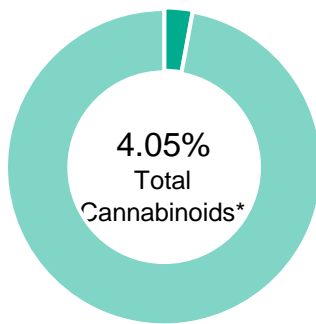


K20027

| | | | |
|------------------|-------------|-----------------|-------------|
| Batch ID: | K20027 | Test ID: | 2569090.005 |
| Reported: | 3-Mar-2020 | Method: | TM14 |
| Type: | Concentrate | | |
| Test: | Potency | | |


CANNABINOID PROFILE


| Compound | LOQ (%) | Result (%) | Result (mg/g) |
|----------------------------------------------|---------|-------------|---------------|
| Delta 9-Tetrahydrocannabinolic acid (THCA-A) | 0.08 | ND | ND |
| Delta 9-Tetrahydrocannabinol (Delta 9THC) | 0.04 | 0.11 | 1.1 |
| Cannabidiolic acid (CBDA) | 0.06 | 0.07 | 0.7 |
| Cannabidiol (CBD) | 0.03 | 3.63 | 36.3 |
| Delta 8-Tetrahydrocannabinol (Delta 8THC) | 0.04 | ND | ND |
| Cannabinolic Acid (CBNA) | 0.11 | ND | ND |
| Cannabinol (CBN) | 0.05 | ND | ND |
| Cannabigerolic acid (CBGA) | 0.07 | ND | ND |
| Cannabigerol (CBG) | 0.04 | 0.10 | 1.0 |
| Tetrahydrocannabivarinic Acid (THCVA) | 0.07 | ND | ND |
| Tetrahydrocannabivarin (THCV) | 0.03 | ND | ND |
| Cannabidivarinic Acid (CBDVA) | 0.06 | ND | ND |
| Cannabidivarin (CBDV) | 0.03 | ND | ND |
| Cannabichromenic Acid (CBCA) | 0.06 | ND | ND |
| Cannabichromene (CBC) | 0.07 | 0.14 | 1.4 |
| Total Cannabinoids | | 4.05 | 40.50 |
| Total Potential THC** | | 0.11 | 1.10 |
| Total Potential CBD** | | 3.69 | 36.91 |

% = % (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.
 Total THC = THC + (THCa * (0.877)) and Total CBD = CBD + (CBDa * (0.877))
 ND = None Detected (Defined by Dynamic Range of the method)

NOTES:
N/A

FINAL APPROVAL


 Mara Miller
 3-Mar-2020
 2:45 PM


 Greg Zimpfer
 3-Mar-2020
 3:49 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



K20027

| | | | |
|------------------|------------------------|-----------------|----------------------------------------|
| Batch ID: | K20027 | Test ID: | T000064647 |
| Reported: | 6-Mar-2020 | 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


Samantha Pauly
6-Mar-2020
2:31 PMGreg Zimpfer
6-Mar-2020
5:21 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 4329.03



Certificate #4329.03

Certificate of Analysis

Elixinol, LLC

555 Burbank Street, Unit J
Bloomfield Colorado 80020 United States

| | | | |
|----------------------------|------------------------|--------------------------|----------------------------------|
| Sample Name: | 20-02-0013 | Eurofins Sample: | 9263352 |
| Project ID | ELIXINOL-20200210-0020 | Receipt Date | 11-Feb-2020 |
| PO Number | CVD | Receipt Condition | Ambient temperature |
| Lot Number | 20-02-0013 | Login Date | 10-Feb-2020 |
| Sample Serving Size | | Date Started | 12-Feb-2020 |
| | | Sampled | Sample results apply as received |
| | | Online Order | 13484-13041953 |

Analysis

Result

Elements by ICP Mass Spectrometry

| | |
|---------|-----------|
| Arsenic | <10.0 ppb |
| Cadmium | <5.00 ppb |
| Lead | <5.00 ppb |
| Mercury | <5.00 ppb |

Mycotoxins in Raw Materials

| | |
|--------------|------------|
| Aflatoxin B1 | <0.500 ppb |
| Aflatoxin B2 | <0.500 ppb |
| Aflatoxin G1 | <0.500 ppb |
| Aflatoxin G2 | <0.500 ppb |
| Ochratoxin A | <1.00 ppb |

Enterobacteriaceae Plate Count *

| | |
|--------------------|-----------|
| Enterobacteriaceae | <10 CFU/g |
|--------------------|-----------|

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) | Hemp Balms and Body Butters |
| Abamectin | <0.30 mg/kg |
| Aldicarb | <0.10 mg/kg |
| Aldicarb sulfone (Aldoxycarb) | <0.10 mg/kg |
| Aldicarb sulfoxide | <0.10 mg/kg |
| Azoxystrobin | <0.10 mg/kg |
| Bifenazate | <0.10 mg/kg |
| Bifenthrin | <0.10 mg/kg |
| Carbaryl | <0.10 mg/kg |
| Carbofuran | <0.10 mg/kg |
| Carbofuran-3-hydroxy- | <0.10 mg/kg |
| Chlorantraniliprole | <0.10 mg/kg |
| Chlordane, cis- | <0.10 mg/kg |
| Chlordane, trans- | <0.10 mg/kg |
| Chlorfenapyr | <0.10 mg/kg |
| Chlorpyrifos | <0.10 mg/kg |

* This analysis or component is not ISO accredited.

Certificate of Analysis

Elixinol, LLC

555 Burbank Street, Unit J
Bloomfield Colorado 80020 United States

| | | | |
|----------------------------|------------------------|--------------------------|----------------------------------|
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| Project ID | ELIXINOL-20200210-0020 | Receipt Date | 11-Feb-2020 |
| PO Number | CVD | Receipt Condition | Ambient temperature |
| Lot Number | 20-02-0013 | Login Date | 10-Feb-2020 |
| Sample Serving Size | | Date Started | 12-Feb-2020 |
| | | Sampled | Sample results apply as received |
| | | Online Order | 13484-13041953 |

Analysis

Result

Multi-Residue Analysis for hemp products - 60+ compounds

| | |
|--------------------------------------------|-------------|
| Coumaphos | <0.10 mg/kg |
| Cyfluthrin | <0.10 mg/kg |
| Cypermethrin | <0.10 mg/kg |
| Cyproconazole (2 diastereoisomers) | <0.10 mg/kg |
| Cyprodinil | <0.10 mg/kg |
| Dichlorvos | <0.10 mg/kg |
| Diclobutrazol | <0.10 mg/kg |
| Dipropetryn | <0.10 mg/kg |
| Disulfoton | <0.10 mg/kg |
| Endosulfan I (alpha-isomer) | <0.20 mg/kg |
| Endosulfan II (beta-isomer) | <0.20 mg/kg |
| Endosulfan sulfate | <0.20 mg/kg |
| Epoxiconazole | <0.10 mg/kg |
| Ethiofencarb | <0.10 mg/kg |
| Etofenprox | <0.10 mg/kg |
| Etoxazole | <0.10 mg/kg |
| Fenoxycarb | <0.10 mg/kg |
| Fenpropathrin | <0.10 mg/kg |
| Fenvalerate/Esfenvalerate (sum of isomers) | <0.20 mg/kg |
| Fipronil | <0.10 mg/kg |
| Fipronil desulfinyf | <0.10 mg/kg |
| Fipronil sulfone | <0.10 mg/kg |
| Imazalil | <0.10 mg/kg |
| Imidacloprid | <0.10 mg/kg |
| Malathion | <0.10 mg/kg |
| Methiocarb | <0.10 mg/kg |
| Methiocarb sulfone | <0.10 mg/kg |
| Methiocarb sulfoxide | <0.10 mg/kg |
| Methomyl | <0.10 mg/kg |
| Mevinphos (E- and Z-isomers) | <0.10 mg/kg |
| Myclobutanil | <0.10 mg/kg |
| Naled (Dibrom) | <0.10 mg/kg |

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Certificate of Analysis

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| | | Sampled | Sample results apply as received |
| | | Online Order | 13484-13041953 |

| Analysis | Result |
|----------|--------|
|----------|--------|

Multi-Residue Analysis for hemp products - 60+ compounds

| | |
|----------------------------------|-------------|
| Paclobutrazol | <0.10 mg/kg |
| Permethrin (sum of isomers) | <0.10 mg/kg |
| Propoxur | <0.10 mg/kg |
| Spinetoram (spinosyns J and L) | <0.10 mg/kg |
| Spinosad (spinosyns A and D) | <0.10 mg/kg |
| Spirodiclofen | <0.10 mg/kg |
| Spiromesifen | <0.10 mg/kg |
| Spirotetramat | <0.10 mg/kg |
| Spiroxamine (2 diastereoisomers) | <0.10 mg/kg |
| Tebuconazole | <0.10 mg/kg |
| Thiabendazole | <0.10 mg/kg |
| Thiabendazole-5-hydroxy- | <0.10 mg/kg |
| Thiacloprid | <0.10 mg/kg |
| Trifloxystrobin | <0.10 mg/kg |
| Metolachlor | <0.10 mg/kg |
| Pyrethrum (total) | <1.0 mg/kg |

| Analysis | LOQ | Limit | Result | Pass/Fail |
|----------|-----|-------|--------|-----------|
|----------|-----|-------|--------|-----------|

Residual Solvents - Class 1, 2a, 2b and 3 *

| | | | | |
|-----------------------|----------|----------|-----------|------|
| 1,1,1-Trichloroethane | 10 ppm | 10 ppm | <10 ppm | Pass |
| 1,1-Dichloroethene | 8 ppm | 8 ppm | <8 ppm | Pass |
| 1,2-Dichloroethane | 5 ppm | 5 ppm | <5 ppm | Pass |
| Benzene | 2 ppm | 2 ppm | <2 ppm | Pass |
| Carbon Tetrachloride | 4 ppm | 4 ppm | <4 ppm | Pass |
| 1,2-Dimethoxyethane | 100 ppm | 100 ppm | <100 ppm | Pass |
| 1,4-Dioxane | 380 ppm | 380 ppm | <380 ppm | Pass |
| Acetonitrile | 410 ppm | 410 ppm | <410 ppm | Pass |
| Chlorobenzene | 360 ppm | 360 ppm | <360 ppm | Pass |
| Chloroform | 60 ppm | 60 ppm | <60 ppm | Pass |
| 1,2-Dichloroethene | 1870 ppm | 1870 ppm | <1870 ppm | Pass |
| Cumene | 70 ppm | 70 ppm | <70.0 ppm | Pass |

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Elixinol, LLC

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Bloomfield Colorado 80020 United States

| | | | |
|----------------------------|------------------------|--------------------------|----------------------------------|
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| | | Online Order | 13484-13041953 |

| Analysis | LOQ | Limit | Result | Pass/Fail |
|----------------------------------------------------|----------|----------|-----------|-----------|
| Residual Solvents - Class 1, 2a, 2b and 3 * | | | | |
| Cyclohexane | 3880 ppm | 3880 ppm | <3880 ppm | Pass |
| Methanol | 3000 ppm | 3000 ppm | <3000 ppm | Pass |
| Methylbutylketone | 50 ppm | 50 ppm | <50 ppm | Pass |
| Methylcyclohexane | 1180 ppm | 1180 ppm | <1180 ppm | Pass |
| Methylene Chloride | 600 ppm | 600 ppm | <600 ppm | Pass |
| n-Hexane | 290 ppm | 290 ppm | <290 ppm | Pass |
| Nitromethane | 50 ppm | 50 ppm | <50 ppm | Pass |
| Pyridine | 200 ppm | 200 ppm | <200 ppm | Pass |
| Tetrahydrofuran | 720 ppm | 720 ppm | <720 ppm | Pass |
| Tetralin | 96 ppm | 96 ppm | <96.0 ppm | Pass |
| Toluene | 890 ppm | 890 ppm | <890 ppm | Pass |
| Trichloroethylene | 80 ppm | 80 ppm | <80 ppm | Pass |
| Xylenes(O,M,P + EB) | 2170 ppm | 2170 ppm | <2170 ppm | Pass |
| 1-Butanol | 200 ppm | 5000 ppm | <200 ppm | Pass |
| 1-Pentanol | 200 ppm | 5000 ppm | <200 ppm | Pass |
| 1-Propanol | 200 ppm | 5000 ppm | <200 ppm | Pass |
| 2-Butanol | 200 ppm | 5000 ppm | <200 ppm | Pass |
| Methylethylketone | 200 ppm | 5000 ppm | <200 ppm | Pass |
| 3-Methyl-1-butanol | 200 ppm | 5000 ppm | <200 ppm | Pass |
| Acetic Acid Butyl Ester | 200 ppm | 5000 ppm | <200 ppm | Pass |
| Acetone | 200 ppm | 5000 ppm | <200 ppm | Pass |
| Anisole | 200 ppm | 5000 ppm | <200 ppm | Pass |
| Diethyl Ether | 200 ppm | 5000 ppm | <200 ppm | Pass |
| Ethanol | 200 ppm | 5000 ppm | <200 ppm | Pass |
| Ethyl Acetate | 200 ppm | 5000 ppm | <200 ppm | Pass |
| Ethyl Formate | 500 ppm | 5000 ppm | <500 ppm | Pass |
| 2-Methyl-1-propanol | 200 ppm | 5000 ppm | <200 ppm | Pass |
| Isobutyl Acetate | 200 ppm | 5000 ppm | <200 ppm | Pass |
| 2-Propanol | 200 ppm | 5000 ppm | <200 ppm | Pass |

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Certificate of Analysis

Elixinol, LLC

555 Burbank Street, Unit J
Bloomfield Colorado 80020 United States

| | | | |
|----------------------------|------------------------|--------------------------|----------------------------------|
| Sample Name: | 20-02-0013 | Eurofins Sample: | 9263352 |
| Project ID | ELIXINOL-20200210-0020 | Receipt Date | 11-Feb-2020 |
| PO Number | CVD | Receipt Condition | Ambient temperature |
| Lot Number | 20-02-0013 | Login Date | 10-Feb-2020 |
| Sample Serving Size | | Date Started | 12-Feb-2020 |
| | | Sampled | Sample results apply as received |
| | | Online Order | 13484-13041953 |

| Analysis | LOQ | Limit | Result | Pass/Fail |
|----------------------------------------------------|----------|----------|-----------|-----------|
| Residual Solvents - Class 1, 2a, 2b and 3 * | | | | |
| Isopropyl Acetate | 200 ppm | 5000 ppm | <200 ppm | Pass |
| Methyl Acetate | 200 ppm | 5000 ppm | <200 ppm | Pass |
| Methylisobutylketone | 200 ppm | 5000 ppm | <200 ppm | Pass |
| tert-Butylmethyl Ether | 200 ppm | 5000 ppm | <200 ppm | Pass |
| n-Heptane | 200 ppm | 5000 ppm | <200 ppm | Pass |
| n-Pentane | 200 ppm | 5000 ppm | <200 ppm | Pass |
| Propyl Acetate | 200 ppm | 5000 ppm | <200 ppm | Pass |
| Total Class 3 Residual Solvents | 5000 ppm | 5000 ppm | <5000 ppm | Pass |

Method References

Testing Location

Elements by ICP Mass Spectrometry (ICP_MS_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).

Paquette, L.H., Szabo, A., Thompson, J.J., "Simultaneous Determination of Chromium, Selenium, and Molybdenum in Nutritional Products by Inductively Coupled Plasma/Mass Spectrometry: Single-Laboratory Validation," Journal of AOAC International, 94(4): 1240 - 1252 (2011).

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_AMPA_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd 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".

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Page 5 of 6

Certificate of Analysis

Elixinol, LLC

555 Burbank Street, Unit J
Bloomfield Colorado 80020 United States

Method References

Testing Location

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

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

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.

Mycotoxins in Raw Materials (MYCO_REG_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Varga, E., Glauner, T., Koppen, R., Mayer, K., Sulyok, M., Schumacher, R., Krska, R. and Berthiller, F., "Stable isotope dilution assay for the accurate determination of mycotoxins in maize by UHPLC-MS/MS," *Analytical and BioAnalytical Chemistry*, 402:2675-2686 (2012).

Residual Solvents - Class 1, 2a, 2b and 3 (USPR_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

United States Pharmacopeia, 38nd Rev. - National Formulary 33th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015). (Modified).

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

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