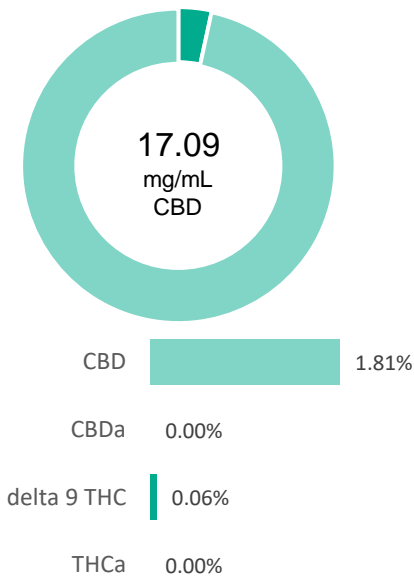


Nat 500

Batch ID:	A30001	Test ID:	T000131547
Type:	Solution	Submitted:	03/24/2021 @ 04:19 PM
Test:	Potency	Started:	3/26/2021
Method:	TM14	Reported:	3/29/2021

CANNABINOID PROFILE


Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.14	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.16	0.60	0.6
Cannabidiolic acid (CBDA)	0.13	ND	ND
Cannabidiol (CBD)	0.13	17.09	18.1
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.17	ND	ND
Cannabinolic Acid (CBNA)	0.10	ND	ND
Cannabinol (CBN)	0.04	0.07	0.1
Cannabigerolic acid (CBGA)	0.14	ND	ND
Cannabigerol (CBG)	0.03	0.49	0.5
Tetrahydrocannabivarinic Acid (THCVA)	0.12	ND	ND
Tetrahydrocannabivarin (THCV)	0.03	ND	ND
Cannabidivarinic Acid (CBDVA)	0.05	ND	ND
Cannabidivarin (CBDV)	0.03	0.05	0.1
Cannabichromenic Acid (CBCA)	0.06	ND	ND
Cannabichromene (CBC)	0.06	0.63	0.7
Total Cannabinoids		18.93	20.1
Total Potential THC**		0.60	0.6
Total Potential CBD**		17.09	18.1

NOTES:

Density = 0.9436g/mL

% = % (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.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL

 Daniel Weidensaul 29-Mar-2021 12:58 PM	 Mara Miller 29-Mar-2021 1:13 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

Nat 500

Batch ID:	A30001	Test ID:	T000131548
Type:	Concentrate	Submitted:	03/24/2021 @ 04:19 PM
Test:	Microbial Contaminants	Started:	3/25/2021
Method:	TM24, TM25, TM26, TM27, TM28	Reported:	3/28/2021

MICROBIAL CONTAMINANTS

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


Tori King
28-Mar-2021
2:57 PM
Courtney Richards
28-Mar-2021
6:18 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.03

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Sample Name:	20-02-0011	Eurofins Sample:	9256389
Project ID	ELIXINOL-20200206-0019	Receipt Date	07-Feb-2020
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	20-02-0012	Login Date	06-Feb-2020
Sample Serving Size		Date Started	10-Feb-2020
		Sampled	Sample results apply as received
		Online Order	13484-12FF03E6

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

10170 Church Ranch
Westminster Colorado 80021 United States

Sample Name:	20-02-0011	Eurofins Sample:	9256389
Project ID	ELIXINOL-20200206-0019	Receipt Date	07-Feb-2020
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	20-02-0012	Login Date	06-Feb-2020
Sample Serving Size		Date Started	10-Feb-2020
		Sampled	Sample results apply as received
		Online Order	13484-12FF03E6

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 desulfinyl	<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

* This analysis or component is not ISO accredited.

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Sample Name:	20-02-0011	Eurofins Sample:	9256389
Project ID	ELIXINOL-20200206-0019	Receipt Date	07-Feb-2020
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	20-02-0012	Login Date	06-Feb-2020
Sample Serving Size		Date Started	10-Feb-2020
		Sampled	Sample results apply as received
		Online Order	13484-12FF03E6

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

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.

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Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Method References

Testing Location

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".

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).

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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Page 4 of 4

20-02-0011

Batch ID:	20-02-0011	Test ID:	T000063692
Reported:	27-Feb-2020	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	79 - 1588	*ND
Butanes (Isobutane, n-Butane)	157 - 3142	*ND
Pentane	83 - 1667	*ND
Ethanol	81 - 1627	*ND
Acetone	88 - 1767	*ND
Isopropyl Alcohol	94 - 1883	*ND
Hexane	5 - 109	*ND
Ethyl Acetate	89 - 1778	*ND
Benzene	0.2 - 3.6	*ND
Heptanes	85 - 1707	*ND
Toluene	16 - 321	*ND
Xylenes (m,p,o-Xylenes)	116 - 2330	*ND

* ND = None Detected (Defined by Dynamic Range of the method)


NOTES:
N/A

FINAL APPROVAL



Ryan Weems
27-Feb-2020
2:43 PM

PREPARED BY / DATE



Greg Zimpfer
27-Feb-2020
4:59 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



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