

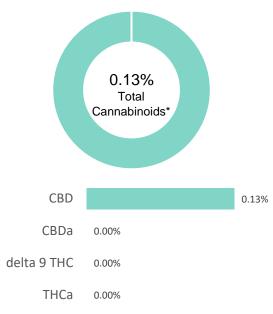
### CERTIFICATE OF ANALYSIS

prepared for: ELIXINOL 555 BURBANK ST. UNIT J BROOMFIELD, CO 80020

### Hemp Balm #166144

Batch ID:	Hemp Balm #166144	Test ID:	3249555.004
Reported:	6-Sep-2019	Method:	TM14
Туре:	Concentrate		
Test:	Potency		

### **CANNABINOID PROFILE**



Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.00	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.00	0.00	0.0
Cannabidiolic acid (CBDA)	0.00	0.00	0.0
Cannabidiol (CBD)	0.00	0.13	1.3
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.00	0.00	0.0
Cannabinolic Acid (CBNA)	0.00	0.00	0.0
Cannabinol (CBN)	0.00	0.00	0.0
Cannabigerolic acid (CBGA)	0.00	0.00	0.0
Cannabigerol (CBG)	0.00	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.00	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.00	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.00	0.00	0.0
Cannabidivarin (CBDV)	0.00	0.00	0.0
Cannabichromenic Acid (CBCA)	0.00	0.00	0.0
Cannabichromene (CBC)	0.00	0.00	0.0
Total Cannabinoids		0.13	1.30
Total Potential THC**	·	0.00	0.00
Total Potential CBD**		0.13	1.30

NOTES:

N/A

Total THC = THC + (THCa \*(0.877)) and Total CBD = CBD + (CBDa \*(0.877))

# FINAL APPROVAL



Sam Smith 6-Sep-2019 2:54 PM

PREPARED BY / DATE

Dunch

David Green 6-Sep-2019 3:01 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





Certificate #4329.02

<sup>% = % (</sup>w/w) = Percent (Weight of Analyte / Weight of Product)

<sup>\*</sup> Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

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



# CERTIFICATE OF ANALYSIS

prepared for: ELIXINOL 555 BURBANK ST. UNIT J BROOMFIELD, CO 80020

### Hemp Balm #166144

Batch ID:	Hemp Balm #166144	Test ID:	8419859.006
Reported:	9-Sep-2019	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	
E. coli	None Detected	
Salmonella	None Detected	

<sup>\*</sup> CFU/g = Colony Forming Unit per Gram

Examples: 10^2 = 100 CFU

10<sup>3</sup> = 1,000 CFU 10<sup>4</sup> = 10,000 CFU 10<sup>5</sup> = 100,000 CFU

NOTES:

Free from visual mold, mildew, and foreign matter

TYM: None Detected

Total Aerobic: None Detected Coliforms: None Detected

### **FINAL APPROVAL**

Samarto N. Hym

Samantha Hoyle 9-Sep-2019 2:16 PM

An 301

Greg Zimpfer 9-Sep-2019 2:57 PM

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.

<sup>\*\*</sup> Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.



# CERTIFICATE OF ANALYSIS

prepared for: ELIXINOL 555 BURBANK ST. UNIT J BROOMFIELD, CO 80020

Hemp Balm #166144

Batch ID: Hemp Balm #166144 Test ID: 7799543.022 Reported: 11-Sep-2019 Method: TM04 Topical Type: 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**

Alex Smith 11-Sep-2019 3:34 PM

Greg Zimpfer 11-Sep-2019 3:46 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







Report Date: 17-Sep-2019

Report Status: Final

# **Certificate of Analysis**

# Elixinol, LLC

555 Burbank St. Unit J

Broomfield Colorado 80020 United States

Sample Name:	Hemp Balm #166144	Eurofins Sample:	8800807
Project ID	ELIXINOL-20190906-0082	Receipt Date	06-Sep-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	Hemp Balm #166144	Login Date	06-Sep-2019
Sample Serving Size	9	Date Started	06-Sep-2019
		Online Order	13484-12352C5A
Δnalvsis			Result

Analysis	Result
Enterobacteriaceae (Bile-Tolerant Gram-Negative Bacteria) *	
Enterobacterial Count	<10 MPN/mL
Preparatory Testing of Nutritional and Dietary Supplements *	
Bile-Tolerant Gram-Neg Bacteria Suitability Result	Pass**
Metals Analysis by ICP-MS	
Arsenic	<0.0686 ppm
Cadmium	<0.0171 ppm
Lead	<0.0171 ppm
Mercury	<0.00857 ppm
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

	• • • • • • • • • • • • • • • • • • • •
Multi-Residue Analysis for hemp products - 60+ compounds	
Matrix Type - To Determine Limit of Quantification (LOQ)	Spices - Botanicals - and other
	Specialty Samples
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	<0.05 mg/kg
Chlorpyrifos	<0.05 mg/kg
Coumaphos	<0.05 mg/kg
Cyfluthrin	<0.05 mg/kg

<sup>\*</sup> This analysis or component is not ISO accredited.



Report Date: 17-Sep-2019

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# **Certificate of Analysis**

# Elixinol, LLC

555 Burbank St. Unit J

Broomfield Colorado 80020 United States

Sample Name:	Hemp Balm #166144	Eurofins Sample:	8800807
Project ID	ELIXINOL-20190906-0082	Receipt Date	06-Sep-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	Hemp Balm #166144	Login Date	06-Sep-2019
Sample Serving Size		Date Started	06-Sep-2019
		Online Order	13484-12352C5A

Withi-Residue Analysis for hemp products - 60+ compounds         non-analyzable           Cyprocapole (2 diastereoisomers)         <0.05 mg/kg           Cyprodinil         <0.05 mg/kg           Dichlorvos         <0.05 mg/kg           Dichlotrazol         <0.05 mg/kg           Disulfoton         <0.05 mg/kg           Endosulfan I (alpha-isomer)         <0.05 mg/kg           Endosulfan II (beta-isomer)         <0.05 mg/kg           Endosulfan II (beta-isomer)         <0.05 mg/kg           Endosulfan sulfate         <0.05 mg/kg           Epoxiconazole         <0.05 mg/kg           Etoriecarb         <0.05 mg/kg           Etoraprox         <0.05 mg/kg           Etorapopathrin         <0.05 mg/kg           Fenonycarb         <0.05 mg/kg           Fipronil desulfinyl         <0.05 mg/kg           Fipronil sulfone         <0.05 mg/kg           Fipronil sulfone         <0.05 mg/kg           Imidacloprid         <0.05 mg/kg           Methiocarb         <0.05 mg/kg           Methiocarb sulfone         <0.05 mg/kg           Methiocarb sulfone         <0.05 mg/kg           Methiocarb sulfone         <0.05 mg/kg           Methiocarb sulfoxide         <0.05 mg/kg           Meth	Analysis	Result
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           Endosulfan I (lalpha-isomer)         <0.05 mg/kg           Endosulfan I (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           Fenropathrin         <0.05 mg/kg           Fenropathrin         <0.05 mg/kg           Fipronil desulfinyl         <0.05 mg/kg           Fipronil desulfinyl         <0.05 mg/kg           Fipronil desulfinyl         <0.05 mg/kg           Imidacloprid         <0.05 mg/kg           Malathion         <0.05 mg/kg           Methiocarb sulfone         <0.05 mg/kg           Methiocarb sulfone         <0.05 mg/kg           Methiocarb sulfone         <0.05 mg/kg           Methiocarb sulfone         <0.05 mg/kg <t< th=""><th>Multi-Residue Analysis for hemp products - 60+ compounds</th><th></th></t<>	Multi-Residue Analysis for hemp products - 60+ compounds	
Cyprodinil         <0.05 mg/kg           Dichlorvos         <0.05 mg/kg           Dichobutrazol         <0.05 mg/kg           Dipropetryn         <0.05 mg/kg           Disulfoton         <0.05 mg/kg           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           Etosazole         <0.05 mg/kg           Fenoxycarb         <0.05 mg/kg           Fenpropathrin         <0.05 mg/kg           Fenrovalerate/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         <0.05 mg/kg           Methiocarb sulfoxide         <0.05 mg/kg           Methiocarb sulfoxide         <0.05 mg/kg           Methiocarb Sulfoxide         <0.05 mg/kg           Methiocarb sulfoxide         <0.05 mg/kg      <	Cypermethrin	non-analyzable
Dichlorvos         <0.05 mg/kg	Cyproconazole (2 diastereoisomers)	<0.05 mg/kg
Diclobutrazol         <0.05 mg/kg	Cyprodinil	<0.05 mg/kg
Dipropetryn         <0.05 mg/kg	Dichlorvos	<0.05 mg/kg
Disulfoton         <0.05 mg/kg	Diclobutrazol	<0.05 mg/kg
Endosulfan I (alpha-isomer)         <0.05 mg/kg	Dipropetryn	<0.05 mg/kg
Endosulfan II (beta-isomer)         <0.05 mg/kg	Disulfoton	<0.05 mg/kg
Endosulfan sulfate         <0.05 mg/kg	Endosulfan I (alpha-isomer)	
Epoxiconazole         <0.05 mg/kg	Endosulfan II (beta-isomer)	<0.05 mg/kg
Ethiofencarb         <0.05 mg/kg	Endosulfan sulfate	<0.05 mg/kg
Etofenprox         <0.05 mg/kg	Epoxiconazole	<0.05 mg/kg
Etoxazole         <0.05 mg/kg	Ethiofencarb	<0.05 mg/kg
Fenoxycarb         <0.05 mg/kg	Etofenprox	<0.05 mg/kg
Fenpropathrin         <0.05 mg/kg	Etoxazole	<0.05 mg/kg
Fenvalerate/Esfenvalerate (sum of isomers)       <0.05 mg/kg	Fenoxycarb	<0.05 mg/kg
Fipronil       <0.05 mg/kg	Fenpropathrin	<0.05 mg/kg
Fipronil desulfinyl       <0.05 mg/kg	Fenvalerate/Esfenvalerate (sum of isomers)	<0.05 mg/kg
Fipronil sulfone       <0.05 mg/kg	Fipronil	
Imazalil       0.023 mg/kg         Imidacloprid       <0.05 mg/kg	Fipronil desulfinyl	
Imidacloprid       <0.05 mg/kg	Fipronil sulfone	
Malathion <a href="#">&lt;0.05 mg/kg</a> Methiocarb Methiocarb sulfone <0.05 mg/kg Methiocarb sulfoxide <0.05 mg/kg Methomyl <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	lmazalil	0.023 mg/kg
Methiocarb<0.05 mg/kg	Imidacloprid	<b>5 5</b>
Methiocarb sulfone<0.05 mg/kg	Malathion	<0.05 mg/kg
Methiocarb sulfoxide  Methomyl  Mevinphos (E- and Z-isomers)  Myclobutanil  Naled (Dibrom)  Paclobutrazol  Permethrin (sum of isomers)  Propoxur   Co.05 mg/kg		5 5
Methomyl<0.05 mg/kgMevinphos (E- and Z-isomers)<0.05 mg/kg		5 5
Mevinphos (E- and Z-isomers)       <0.05 mg/kg	Methiocarb sulfoxide	
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	·	5 5
Naled (Dibrom) <0.05 mg/kg Paclobutrazol <0.05 mg/kg Permethrin (sum of isomers) <0.05 mg/kg Propoxur <0.05 mg/kg		
Paclobutrazol <0.05 mg/kg Permethrin (sum of isomers) <0.05 mg/kg Propoxur <0.05 mg/kg	•	
Permethrin (sum of isomers) <0.05 mg/kg Propoxur <0.05 mg/kg	·	
Propoxur <0.05 mg/kg		~ ~
	•	
Spinetoram (spinosyns J and L) <0.05 mg/kg	·	~ ~
	Spinetoram (spinosyns J and L)	<0.05 mg/kg

<sup>\*</sup> This analysis or component is not ISO accredited.

Report Date: 17-Sep-2019

Report Status: Final

# **Certificate of Analysis**

### Elixinol, LLC

555 Burbank St. Unit J

Broomfield Colorado 80020 United States

Sample Name:	Hemp Balm #166144	Eurofins Sample:	8800807
Project ID	ELIXINOL-20190906-0082	Receipt Date	06-Sep-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	Hemp Balm <b>#166144</b>	Login Date	06-Sep-2019
Sample Serving Size		Date Started	06-Sep-2019
		Online Order	13484-12352C5A

Result
<0.05 mg/kg
<0.05 mg/kg
<0.05 mg/kg
non-analyzable
<0.05 mg/kg
<0.50 mg/kg

### Method References Testing Location

#### Enterobacteriaceae (Bile-Tolerant Gram-Negative Bacteria) (USPN2021)

Food Integ. Innovation-Madison NE

USP Current revision, Chapter 2021.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

#### 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.

<sup>\*\*</sup>Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

<sup>\*</sup> This analysis or component is not ISO accredited.



Report Number:

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2627225-0

## **Certificate of Analysis**

Elixinol, LLC

555 Burbank St. Unit J Broomfield Colorado 80020 United States

Method References Testing Location

#### 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.

#### Mycotoxins in Raw Materials (MYCO\_REG\_S)

Food Integrity Innovation-Madison

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).

Preparatory Testing of Nutritional and Dietary Supplements (USPN\_PT)

Food Integ. Innovation-Madison NE

\* This analysis or component is not ISO accredited.



Report Date: 17-Sep-2019

Report Status: Final

## **Certificate of Analysis**

Elixinol, LLC

555 Burbank St. Unit J Broomfield Colorado 80020 United States

### Testing Location(s)

### Released on Behalf of Eurofins by

#### Food Integrity Innovation-Boulder

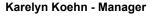
Eurofins Food Chemistry Testing US, Inc. 2830 Wilderness Pl Boulder CO 80301 800-675-8375



AT-1816

#### Food Integ. Innovation-Greenfield

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



Ian Laessig - Manager



2918.06

#### **Food Integrity Innovation-Madison**

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



**Richard Higby - Director** 





2918.01

#### Food Integ. Innovation-Madison NE

Eurofins Food Chemistry Testing US, Inc. 2102 Wright Street Madison WI 53704 800-675-8375

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