

Official Compliance: Colorado CERTIFICATE OF ANALYSIS

Prepared for:

Calm Dog Chews - 210109

Elixinol LLC

Batch ID or Lot Number: Test: Reported: Location:

10170 Church Ranch Way, Ste 400 210109 12/3/21 **Potency**

Westminster, CO 80021

Matrix: Test ID: Started: **USDA License:**

Unit T000179397 12/2/21 N/A

Received: Sampler ID: Status: Method:

> TM14 (HPLC-DAD): Potency -12/01/2021 @ 10:57 AM N/A Standard Cannabinoid Analysis

(Colorado Panel)

CANNARINOID DROEILE

N/A

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.786	2.340	ND	ND	Notes
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.887	2.642	ND	ND	# of Servings = 1
Cannabidiolic acid (CBDA)	0.858	2.691	ND	ND	Sample Weight=4.767
Cannabidiol (CBD)	0.837	2.623	7.902	1.66	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.976	2.909	ND	ND	
Cannabinolic Acid (CBNA)	0.559	1.666	ND	ND	
Cannabinol (CBN)	0.256	0.762	ND	ND	
Cannabigerolic acid (CBGA)	0.819	2.441	ND	ND	
Cannabigerol (CBG)	0.196	0.584	1.452	0.30	
Tetrahydrocannabivarinic Acid (THCVA)	0.693	2.064	ND	ND	
Tetrahydrocannabivarin (THCV)	0.178	0.531	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.358	1.122	ND	ND	
Cannabidivarin (CBDV)	0.198	0.620	ND	ND	
Cannabichromenic Acid (CBCA)	0.316	0.941	ND	ND	
Cannabichromene (CBC)	0.345	1.029	ND	ND	
Total Cannabinoids			9.354	1.96	
Total Potential THC**			ND	ND	

Total Potential THC** ND ND Total Potential CBD** 7.902 1.66

> Karen Winternheimer 3-Dec-21 4:38 PM



APPROVED BY / DATE

Definitions

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

* Indicates a value below the Limit of Quantitiation (LOQ) and above the Limit of Detection (LOD).

Jacob Miller

03-Dec-2021

03:50 PM

** 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))

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

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

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.









CERTIFICATE OF ANALYSIS

prepared for: ELIXINOL LLC 10170 CHURCH RANCH WAY, STE 400 WESTMINSTER, CO 80021

Calm Dog Chews Lot 213108

Batch ID:	213108	Test ID:	T000161731
Matrix:	Finished Product	Received:	09/03/2021 @ 01:54 PM
Test:	Microbial Contaminants	Started:	9/7/2021
Method:	TM25 (qPCR) TM24, TM26, TM27, TM28 (Culture Plating)	Reported:	9/10/2021

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	<lloq< td=""></lloq<>
Total Merobie course	Culture Plating	10 2 0 0 6	10 3 61 678	1.5%10 5 61 678	12204
Total Coliforms*	TM-27	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
Total Comornis	Culture Plating	10 1 Cl Org	10°2 Cl 0/g	1.5x10° 4 Cl 0/g	None Detected
Total Yeast and Molds*	TM-24	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	<ll0q< td=""></ll0q<>
Total Yeast and Molus"	Culture Plating	10"1 CF0/g	10.72 CF0/g	1.5X10-4 CF0/g	\LL0Q
E. coli	TM-28	1 CFU/g	NA	NA	Absent
L. COII	Culture Plating	i Cru/g	INA	INC	Absent
E coli (STEC)	TM-25	1 CFU/g	NA	NA	Absent
E. coli (STEC)	PCR	i Cru/g	INA	INA	Absent
Salmonella	TM-25	1 CFU/g	NA	NA	Absent
	PCR	i Cru/g	INA	INA	Absent

^{*} Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

10^2 = 100 CFU Examples:

10^3 = 1,000 CFU

10^4 = 10,000 CFU

10^5 = 100,000 CFU

NOTES:

Free from visual mold, mildew, and foreign matter

DEFINITIONS:

CFU/g = Colony Forming Units per Gram.

LOD = Limit of Detection

ULOQ = Upper Limit of Quantitation

LLOQ = Lower Limit of Quantitation

FINAL APPROVAL

Brett Hudson 9/10/2021 11:23:00 AM

Branne Maillot

Brianne Maillot 9/10/2021 11:45:00 AM

PREPARED BY / DATE

APPROVED BY / DATE

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Report Number: 3407302-0

Report Date: 21-Sep-2021

Report Status: Final

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch

Westminster Colorado 80021 United States

Sample Name:	Calm Pet Chew - Lot 213108	Eurofins S	ample:	10923106	
Project ID	ELIXINOL-20210903-0028	Receipt Dat	te	07-Sep-2021	
PO Number	CVD	Receipt Cor	ndition	Ambient temperature	
Lot Number	Lot 213108	Login Date		03-Sep-2021	
Sample Serving Size	1 Chew	Date Starte	d	08-Sep-2021	
		Sampled		•	apply as received
		Online Orde	er	13484-15F4EB	28
<u>Analysis</u>					Result
Calculated Sample \	Weight *				
Entity Weight					4.2095 g
Elements by ICP Ma	ss Spectrometry				
Arsenic					13.3 ppb
Cadmium					20.9 ppb
Lead					18.4 ppb
Mercury					<5.00 ppb
Enterobacteriaceae					
Enterobacteriaceae				•	<10 CFU/g
Glyphosate and AM	PA				
Glyphosate					232 ng/g
AMPA					<100 ng/g
Analysis		Limit		Result	Pass/Fail
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		20 ppb		<1.00 ppb	Pass
Sum of B1 B2 G1 a		20 ppb		<2.00 ppb	Pass
-	sis for hemp products - 60+ compounds				
Abamectin				<0.30 mg/kg	
Aldicarb				<0.10 mg/kg	
Aldicarb sulfone (Al	ldoxycarb)			<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-hydro	oxy-			<0.10 mg/kg	

* This analysis or component is not ISO accredited.

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Certificate of Analysis

Elixinol, LLC

10170 Church Ranch

Westminster Colorado 80021 United States

Sample Name:	Calm Pet Chew - Lot 213108	Eurofins Sample:	10923106	
Project ID	ELIXINOL-20210903-0028	Receipt Date	07-Sep-2021	
PO Number	CVD	Receipt Condition	Ambient temperature	
Lot Number	Lot 213108	Login Date	03-Sep-2021	
Sample Serving Size	1 Chew	Date Started	08-Sep-2021	
J		Sampled	Sample results apply as	received
		Online Order	13484-15F4EB28	
Analysis		Limit	Result	Pass/Fail
Multi-Residue Anal	ysis for hemp products - 60+ compounds			
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	
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	a-isomer)		<0.20 mg/kg	
Endosulfan II (beta	ı-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/Esfen	valerate (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	

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Certificate of Analysis

Elixinol, LLC

10170 Church Ranch

Westminster Colorado 80021 United States

Sample Name:	Calm Pet Chew - Lot 21310	Eurofins Sample	e: 10923106	
Project ID	ELIXINOL-20210903-0028	Receipt Date	07-Sep-2021	
O Number	CVD	Receipt Condition	n Ambient temperatur	re
ot Number	Lot 213108	Login Date	03-Sep-2021	
Sample Serving Size	1 Chew	Date Started	08-Sep-2021	
, p		Sampled	Sample results appl	ly as received
		Online Order	13484-15F4EB28	
Analysis		Limit	Result	Pass/Fail
Multi-Residue Analy	sis for hemp products - 60+ co	npounds		
Methiocarb			<0.10 mg/kg	
Methiocarb sulfone			<0.10 mg/kg	
Methiocarb sulfoxion	le		<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	
Paclobutrazol			<0.10 mg/kg	
Permethrin (sum of	isomers)		<0.10 mg/kg	
Propoxur			<0.10 mg/kg	
Spinetoram (spino	syns J and L)		<0.10 mg/kg	
Spinosad (spinosyr	ns A and D)		<0.10 mg/kg	
Spirodiclofen			non-analyzable	
Spiromesifen			<0.10 mg/kg	
Spirotetramat			<0.10 mg/kg	
Spiroxamine (2 dia	stereoisomers)		<0.10 mg/kg	
Tebuconazole			<0.10 mg/kg	
Thiabendazole			<0.10 mg/kg	
Thiabendazole-5-h	ydroxy-		<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-Trichloroetha	ne 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 Tetrachlori	• •	4 ppm	<4 ppm	Pass

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10170 Church Ranch Westminster Colorado 80021 United States

Sample Name:	Calm Pet Chew - Lot 213108	Eurofins Sample:	10923106	
Project ID	ELIXINOL-20210903-0028	Receipt Date	07-Sep-2021	
O Number	CVD	Receipt Condition	Ambient temperatu	ire
ot Number	Lot 213108	Login Date	03-Sep-2021	
Sample Serving Size	1 Chew	Date Started	08-Sep-2021	
		Sampled	Sample results app	oly as received
		Online Order	13484-15F4EB28	
Analysis	LOQ	Limit	Result	Pass/Fail
Residual Solvents -	Class 1, 2a, 2b and 3			
1,2-Dimethoxyetha	ne 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
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 + E	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		5000 ppm	<200 ppm	Pass
Acetic Acid Butyl E	• •	5000 ppm	<200 ppm	Pass
Acetone	200 ppm	5000 ppm	<200 ppm	Pass

^{*} This analysis or component is not ISO accredited.

200 ppm

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Anisole

5000 ppm

<200 ppm

Pass

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10170 Church Ranch

Westminster Colorado 80021 United States

Sample Name:	Calm Pet Che	w - Lot 213108	Eurofins Sample:	10923106	
roject ID	ELIXINOL-2021	0903-0028	Receipt Date	07-Sep-2021	
O Number	CVD		Receipt Condition	Ambient tempera	ture
ot Number	Lot 213108		Login Date	03-Sep-2021	
Sample Serving Size	1 Chew		Date Started	08-Sep-2021	
			Sampled	Sample results a	• •
			Online Order	13484-15F4EB28	
<u>Analysis</u>		LOQ	Limit	Result	Pass/Fai
Residual Solvents -	Class 1, 2a, 2b ar	nd 3			
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-propand	ol	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
Isopropyl Acetate		200 ppm	5000 ppm	<200 ppm	Pass
Methyl Acetate		200 ppm	5000 ppm	<200 ppm	Pass
Methylisobutylketor	ne	200 ppm	5000 ppm	<200 ppm	Pass
tert-Butylmethyl Eth	ner	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 Resid	lual Solvents	5000 ppm	5000 ppm	<5000 ppm	Pass

Method References Testing Location

Calculated Sample Weight (PREP)

Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA

Elements by ICP Mass Spectrometry (ICP_MS_S)

Food Integrity Innovation-Madison 6304 Ronald Reagan Ave 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).

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10170 Church Ranch Westminster Colorado 80021 United States

Method References Testing Location

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

6304 Ronald Reagan Ave 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

6304 Ronald Reagan Ave 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

6304 Ronald Reagan Ave 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

6304 Ronald Reagan Ave Madison, WI 53704 USA

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

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Elixinol, LLC

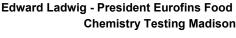
10170 Church Ranch Westminster Colorado 80021 United States

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

Eurofins Food Chemistry Testing Madison, Inc. 6304 Ronald Reagan Ave Madison WI 53704 800-675-8375







2918.01

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