



CERTIFICATE OF ANALYSIS

Report Status: **RELEASED**
 Report Date: **03/06/2020**
 Sante Sample ID: **20A146**
 Page 1 of 2

Company Name: Elite Health Partners, LLC. Address: 1725 Skyway Dr. Suite 150, Longmont, CO 80504 Phone Number: 720-845-0654	Contact Name: Tate Ignelzi Contact Email: Tate@elitehealthpartners.com Purchase Order Number: PO-01394
Sample Name: Elixinol Hemp Balm, 500 mg CBD/Unit Sample Lot Number: 141755 Sample Received: 03/06/2020	Sample/Product Description: Hemp Balm, Topical, 56.7 grams Sample/Product Type: CBD Sample Matrix: Balm

ANALYSIS	TEST METHOD	LOQ	SPECIFICATIONS	RESULTS	PASS/NO PASS
Cannabinoids Assay					
CBD	UHPLC-DAD	0.0011 w/w%	w/w%: Report Only	0.9532 w/w%	Results Reported
			mg/g: Report Only	9.532 mg/g	Results Reported
			% Label Claim: 90.0 - 110.0%	108.1%	PASS
			Label Claim: 450.0 – 550.0 mg/Unit	540.487 mg/Unit	PASS
CBDa		0.0011 w/w%	w/w%: Report Only mg/g: Report Only	0.0453 w/w% 0.453 mg/g	Results Reported
Δ9-THC		0.0011 w/w%	w/w%: NMT 0.3	0.0450 w/w%	PASS
			mg/g: NMT 3	0.450 mg/g	PASS
THCa		0.0011 w/w%	w/w%: Report Only mg/g: Report Only	ND	N/A
CBGa		0.0011 w/w%	w/w%: Report Only mg/g: Report Only	ND	N/A
CBG		0.0011 w/w%	w/w%: Report Only mg/g: Report Only	0.0109 w/w% 0.109 mg/g	Results Reported
CBN		0.0011 w/w%	w/w%: Report Only mg/g: Report Only	ND	N/A
CBC		0.0011 w/w%	w/w%: Report Only mg/g: Report Only	ND	N/A
CBCa		0.0011 w/w%	w/w%: Report Only mg/g: Report Only	ND	N/A
CBL		0.0011 w/w%	w/w%: Report Only mg/g: Report Only	0.0150 w/w% 0.150 mg/g	Results Reported
CBDV		0.0011 w/w%	w/w%: Report Only mg/g: Report Only	0.0057 w/w% 0.057 mg/g	Results Reported
CBDVa		0.0011 w/w%	w/w%: Report Only mg/g: Report Only	ND	N/A
Δ8-THC	0.0011 w/w%	w/w%: Report Only mg/g: Report Only	ND	N/A	
THCV	0.0011 w/w%	w/w%: Report Only mg/g: Report Only	ND	N/A	
THCVa	0.0011 w/w%	w/w%: Report Only mg/g: Report Only	ND	N/A	

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Sante Laboratories, LLC. Hemp Testing Laboratory 8201 East Riverside Drive, Suite 650 Austin, Texas 78744 USA	Sante Sample ID: 20A146 Receipt Date: 03/06/2020 / 10:20a / B. SLOAT Receipt Condition: Good Condition Start Date: 03/06/2020

QUALITY ASSURANCE			
Signature: <u>Brian R Sloat</u> <small>Brian R Sloat (Mar 6, 2020)</small>	Date: <u>03/06/2020</u>	Name: <u>Brian R. Sloat, Ph.D.</u>	Title: <u>Quality Manager</u>



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ADDITIONAL REPORT NOTES

Test method have been validated to meet regulatory standards. Total Potential THC = (THCa x 0.877) + (Δ9THC) + (Δ8THC). Total Potential CBD = (CBDa x 0.877) + (CBD). Total Cannabinoids is summation of all tested and detectable cannabinoids. Samples are gravimetrically prepared using qualified balances that are calibrated annually by Mettler-Toledo using NIST-traceable weights. Verification of calibration is performed routinely (e.g. weekly) using NIST-traceable to ensure safe and accurate weighting processes between manufacture performed calibration. Individual balances have been assigned minimum weights taking into consideration the balance and environmental conditions to ensure weighting complies with acceptable tolerances. Cannabinoids for hemp flower and trim is analyzed and reported as received unless requested otherwise. Unless otherwise specified, all QC samples performed within specifications established using validated test methods. Reported results refer exclusive to items tested and have been tested by Sante Laboratories, unless specified otherwise. Test analysis was performed by an ISO/IEC 17025:2017 accredited laboratory. **NOTE: Sample weight was reported by Customer to be 56.7 grams per unit.**

VERSION HISTORY

Version	Effective Date	Summary of Changes
00	03/06/2019	Initial Release

LEGEND KEY

N/A: Not Applicable	LNCR: Laboratory Non-Conformance Report
ND: Not Detected	RP-UHPLC-DAD: Reverse Phase Ultra High-Performance Liquid Chromatography with Diode Array Detector
NMT: No More Than	MS/MS: Mass Spectroscopy (Quadrupole)
NLT: No Less Than	PPM: Parts Per Million
LOD: Limit of Detection	PPB: Parts Per Billion
LOQ: Limit of Quantitation	DLS: Dynamic Light Scattering
LFIR: Laboratory Failure Investigation Report	MG: Milligrams
RT: Retention Time	G: Grams
RRT: Relative Retention Time	MCG: Micrograms
USP: United States Pharmacopeia	NM: Nanometers
ID: Identification	PDI: Polydispersity Index
CV: Coefficient of Variation	ML: Milliliters
CFU: Colony Forming Units	ISO: International Organization for Standardization
LR: Lot Release	

141755

Batch ID: 141755	Test ID: T000070380
Reported: 9-Apr-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
E. coli	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


Robert Belfon
 9-Apr-2020
 10:42 AM

PREPARED BY / DATE



Greg Zimpfer
 9-Apr-2020
 11:01 AM

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

10170 Church Ranch
Westminster Colorado 80021 United States

Sample Name:	141755	Eurofins Sample:	9417151
Project ID	ELIXINOL-20200403-0041	Receipt Date	07-Apr-2020
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	141755	Login Date	03-Apr-2020
Sample Serving Size		Date Started	08-Apr-2020
		Sampled	Sample results apply as received
		Online Order	13484-134A270B

Analysis

Result

Elements by ICP Mass Spectrometry

Arsenic	<0.0100 ppm
Cadmium	<0.00500 ppm
Lead	0.00589 ppm
Mercury	<0.00500 ppm

Enterobacteriaceae Plate Count *

Enterobacteriaceae	<10 CFU/g
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Glyphosate and AMPA

Glyphosate	<100 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 and G2	20 ppb	<2.00 ppb	Pass

Multi-Residue Analysis for hemp products - 60+ compounds

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

* This analysis or component is not ISO accredited.

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - 60+ compounds			
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-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	

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Analysis	Limit	Result	Pass/Fail	
Multi-Residue Analysis for hemp products - 60+ compounds				
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		
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

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Analysis	LOQ	Limit	Result	Pass/Fail
Residual Solvents - Class 1, 2a, 2b and 3				
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 + 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

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Analysis	LOQ	Limit	Result	Pass/Fail
Residual Solvents - Class 1, 2a, 2b and 3				
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
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.

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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).

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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