HEMP LABORATORY TEST

CERTIFICATE OF ANALYSIS



Hemp Analysis - Summary

Tested by high-performance liquid chromatography with ultraviolet detection (HPLC-UV).

TOTAL THC1

PASSED² 0.0713%



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CANNABINOID PROFILE

1.8642% Total CBD¹2.1014% Total Cannabinoids³Terpenes NT

- 1) Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step: Total THC = Δ 9THC + (THCa (0.877)) and Total CBD = CBD + (CBDa (0.877)).
- 2) As defined by the 2018 Farm Bill, hemp must contain no more than 0.3% Total THC, defined as the concentration of delta-9 tetrahydrocannabinol (Δ-9-THC) post-decarboxylation see formula above.
- 3) Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

Additional Testing

Pass/Fail defined at action limits set by California Code of Regulations Title 16. Effective date: January 16, 2019. Authority: Section 26013, Business Professions Code. Reference: Sections 26100, 26104, and 26110, Business Professions Code.

RR 500mg Full Spectrum Tincture

Tested for: 3B Holdings Sample ID: 191028R003

Date Collected: 10/28/2019

Address:

Date Received: 10/28/2019

Batch #:

Final Approval

Danielle Deschene, LQC Verified By

Date: 10/30/2019

Josh Wurzer, President Date: 10/30/2019 These results relate only to the sample included on this report. This report shall not be reproduced except in full, without written approval of the laboratory. The uncertainty of measurement associated with the measurement result reported in this certificate is available from SC Laboratories upon request.



SC Laboratories, LLC 100 Pioneer Street, Suite E Santa Cruz, CA 95060 (866) 435-0709 | sclabs.com

Sample Name: RR 500mg Full Spectrum Tincture

LIMS Sample ID: 191028R003

Batch #:

Source Metrc ID(s):

Sample Type: Infused, Liquid Edible

Batch Count: Sample Count: Unit Mass:

Serving Mass:

Density: 0.9317 g/mL

Satch Count:

Moisture Test Results

Results (%)
Moisture NT

Cannabinoid Test Results 10/29/2019

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

Δ9THC Δ8THC THCa THCV THCVa CBD CBDa CBDV CBDV CBDV CBDV CBDV CBDV CBDV CBG CBG CBG CBG CBC CBC CBC	mg/mL 0.664 ND ND ND ND 17.369 ND 0.071 ND 0.403 ND ND ND ND	% 0.0713 ND ND ND ND 1.8642 ND 0.0076 ND 0.0433 ND ND ND ND	LOD / LOQ mg/mL 0.0009 / 0.003 0.0009 / 0.003 0.0009 / 0.003 0.0004 / 0.001 0.0013 / 0.004 0.0009 / 0.003 0.0004 / 0.001 0.0003 / 0.001 0.0003 / 0.001 0.0008 / 0.002 0.0021 / 0.006 0.0009 / 0.003 0.0011 / 0.003
Sum of Cannabinoids:	19.579	2.1014	

Total THC (Δ9THC+0.877*THCa) 0.664 0.0713 Total CBD (CBD+0.877*CBDa) 17.369 1.8642

Action Limit mg

Δ9THC per Unit Δ9THC per Serving

Batch Photo

Date Collected: 10/28/2019
Date Received: 10/28/2019
Tested for: 3B Holdings

License #:
Address:

Produced by:

License #: Address:

Terpene Test Results

11/07/2019

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

	mg/g	%	LOD / LOQ mg/g
Pinene	ND	ND	0.022 / 0.067
Camphene	ND	ND	0.027 / 0.08
Sabinene	ND	ND	0.027 / 0.082
Pinene	ND	ND	0.027 / 0.081
Myrcene	<loq< td=""><td><loq< td=""><td>0.027 / 0.082</td></loq<></td></loq<>	<loq< td=""><td>0.027 / 0.082</td></loq<>	0.027 / 0.082
Phellandrene	ND	ND	0.037 / 0.111
3 Carene	ND	ND	0.029 / 0.087
Terpinene	ND	ND	0.03 / 0.09
Limonene	<loq< td=""><td><loq< td=""><td>0.013 / 0.039</td></loq<></td></loq<>	<loq< td=""><td>0.013 / 0.039</td></loq<>	0.013 / 0.039
Eucalyptol	<loq< td=""><td><loq< td=""><td>0.021 / 0.063</td></loq<></td></loq<>	<loq< td=""><td>0.021 / 0.063</td></loq<>	0.021 / 0.063
Ocimene	ND	ND	0.028 / 0.085
Terpinene	ND	ND	0.03 / 0.09
Sabinene Hydrate	ND	ND	0.018 / 0.054
Fenchone	ND	ND	0.03 / 0.092
Terpinolene	ND	ND	0.022 / 0.067
Linalool	<loq< td=""><td><loq< td=""><td>0.019 / 0.058</td></loq<></td></loq<>	<loq< td=""><td>0.019 / 0.058</td></loq<>	0.019 / 0.058
Fenchol	ND	ND	0.023 / 0.069
(-)-Isopulegol	ND	ND	0.013 / 0.04
Camphor	ND	ND	0.054 / 0.163
Isoborneol	ND	ND	0.033 / 0.101
Borneol	<loq< td=""><td><loq< td=""><td>0.048 / 0.146</td></loq<></td></loq<>	<loq< td=""><td>0.048 / 0.146</td></loq<>	0.048 / 0.146
Menthol	0.779	0.0779	0.022 / 0.067
Terpineol	ND	ND	0.022 / 0.068
Nerol	ND	ND	0.023 / 0.068
R-(+)-Pulegone	ND	ND	0.022 / 0.068
Geraniol	ND	ND	0.017 / 0.05
Geranyl Acetate	ND	ND	0.016 / 0.048
Cedrene	ND	ND	0.017 / 0.051
Caryophyllene	0.362	0.0362	0.018 / 0.054
Humulene	0.108	0.0108	0.013 / 0.038
Valencene	ND	ND	0.008 / 0.023
Nerolidol	ND	ND	0.035 / 0.106
Caryophyllene Oxide	<loq< td=""><td><loq< td=""><td>0.028 / 0.084</td></loq<></td></loq<>	<loq< td=""><td>0.028 / 0.084</td></loq<>	0.028 / 0.084
Guaiol	<loq< td=""><td><loq< td=""><td>0.022 / 0.066</td></loq<></td></loq<>	<loq< td=""><td>0.022 / 0.066</td></loq<>	0.022 / 0.066
Cedrol	ND	ND	0.029 / 0.086
Bisabolol	0.112	0.0112	0.017 / 0.051

Total Terpene Concentration: 1.361 0.1361

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.



Scan to verify at sclabs.com Sample must be marked as public to be viewable

Bryce Vale, LQC Verified By Date: 11/08/2019

Josh Wurzer, President Date: 11/08/2019



CERTIFICATE OF ANALYSIS

Lith 937

Batch ID: N/A

Reported: 19-Jan-2019

Concentrate Type:

Test: Micro

MICROBIAL CONTAMINANTS

Test	Result	Unit
Total Aerobic Count	None Detected	CFU/g
Total Coliforms	None Detected	CFU/g
Total Yeast and Molds	None Detected	CFU/g
E. coli	None Detected	CFU/g
Salmonella	None Detected	CFU/g

^{*} CFU/g = Colony Forming Unit per Gram

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.

FINAL APPROVAL

PREPARED BY / DATE

Vicente Contreras 19-Jan-2019 9:36 AM

Mike Branvold 19-Jan-2019 7:00 PM

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.

^{**} Total Yeast and Molds values are 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

Lith 937

Batch ID:	N/A	Test ID:	7909956.041
Reported:	16-Jan-2019	Method:	TM04
Type:	Concentrate		
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

Samantha Small

Sam Smith 16-Jan-2019 4:22 PM

David Green 16-Jan-2019 4:45 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Metals Profile

 Customer Sample ID:
 Lith 937
 Extraction Date(s):
 Analysis Date(s):

 Laboratory Number:
 201901-0539
 1/17/2019
 1/22/2019

 Extraction Technician:
 MF
 4
 4

 Analytical Chemist:
 MTO
 MTO
 4

Metals (ICP/MS)	Results	
	Method Code	ug/Kg (ppb)
Arsenic (Ar)	ICPMS.1	<20
Cadmium (Cd)	ICPMS.1	<10
Lead (Pb)	ICPMS.1	<5.0
Mercury (Hg)	ICPMS.1	<5.0

Limits for metals vary greatly depending on usage of the sample. Altitude Consulting recommends researching federal and state regulatory limits.

Altitude Consulting, LLC utilizes NIST traceable Reference Standards and Certified Reference Material to calibrate analytical instruments along with proven analytical methods.

The methods are applied in the most ethical manner following good laboratory practice guidelines. The results of this report are based solely on the sample submitted and cannot be reproduced.



Altitude Consulting LLC 3262 So. Platte River Drive Englewood, CO. 80110 Email: Gary@AltitudeConsultingllc.com Ph: 303.390.1662 www.altitudeconsultingllc.com

Sample Name	<mark>201901-0539</mark>	Operator	LCTQ
Sample ID	Lith 937	Method	Triple Quad 4500
Acquisition Date	2019-01-16T19:35:08	Result Table	01162019
Data File	20190116.wiff	Sample Type	

Pesticides	Conc. (ppm)	Pos/Neg	Action Level (ppm)	Comments
ACEPHATE	0.000	NEG	0.040	
ACEQUINOCYL	0.000	NEG	0.200	
ACETAMIPRID	0.000	NEG	0.020	
ALDICARB	0.000	NEG	0.040	
ABAMECTIN	0.000	NEG	0.070	
AVERMECTIN B1B	0.000	NEG	0.070	
AZOXYSTROBIN	0.000	NEG	0.020	
BIFENAZATE	0.000	NEG	0.020	
BIFENTHRIN	0.000	NEG	0.020	
BOSCALID	0.000	NEG	0.040	
CARBARYL	0.000	NEG	0.020	
CARBOFURAN	0.000	NEG	0.020	
CHLORANTRANILIPROLE	0.000	NEG	0.020	
CHLOREFENAPYR	0.000	NEG	0.100	
CHLORPYRIFOS	0.000	NEG	0.020	
CLOFENTEZINE	0.000	NEG	0.020	
CYFLUTHRIN	0.000	NEG	0.100	
CYPERMETHRIN	0.000	NEG	0.100	
DAMINOZIDE	0.000	NEG	0.100	
DIAZINON	0.000	NEG	0.020	
DICHLORVOS	0.000	NEG	0.010	
DIMETHOATE	0.000	NEG	0.020	
ETHOPROPHOS	0.000	NEG	0.020	
ETOFENPROX	0.000	NEG	0.040	
ETOXAZOLE	0.000	NEG	0.010	
FENOXYCARB	0.000	NEG	0.020	
FENPYROXIMATE	0.000	NEG	0.040	
FIPRONIL	0.000	NEG	0.040	
FLONICAMID	0.000	NEG	0.100	
FLUDIOXONIL	0.000	NEG	0.040	
HEXYTHIAZOX	0.000	NEG	0.100	
IMAZALIL	0.000	NEG	0.040	
IMIDACLOPRID	0.000	NEG	0.020	
KRESOXIM-METHYL	0.000	NEG	0.040	



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Email: Gary@AltitudeConsultingllc.com Ph: 303.390.1662 www.altitudeconsultingllc.com

MALATHION A	0.000	NEG	0.050	
METALAXYL	0.000	NEG	0.020	
METHIOCARB	0.000	NEG	0.020	
METHOMYL	0.000	NEG	0.040	
MGK 264	0.000	NEG	0.020	
MYCLOBUTANIL	0.000	NEG	0.040	
NALED	0.000	NEG	0.050	
OXAMYL	0.000	NEG	0.100	
PACLOBUTRAZOL	0.000	NEG	0.040	
PARATHION METHYL	0.000	NEG	0.100	
PERMETHRINS	0.000	NEG	0.040	
PHOSMET	0.000	NEG	0.020	
PIPERONYL BUTOXIDE	0.000	NEG	0.200	
PRALLETHRIN	0.000	NEG	0.020	
PROPICONAZOLE	0.000	NEG	0.040	
PROPOXURE	0.000	NEG	0.020	
PYRETHRINS CINERIN 1	0.000	NEG	0.500	
PYRETHRINS JASMOLIN 1	0.000	NEG	0.500	
PYRETHRINS PYRETHRIN 1	0.000	NEG	0.500	
PYRIDABEN	0.000	NEG	0.020	
SPINOSYN A	0.000	NEG	0.060	
SPINOSYN D	0.000	NEG	0.060	
SPIROMESIFEN	0.000	NEG	0.030	
SPIROTETRAMAT	0.000	NEG	0.020	
SPIROXAMINE	0.000	NEG	0.040	
TEBUCONAZOLE	0.000	NEG	0.010	
THIACLOMPRID	0.000	NEG	0.020	
THIAMETHOXAM	0.000	NEG	0.020	
TRIFLOXYSTROBIN	0.000	NEG	0.020	