HEMP LABORATORY TEST

CERTIFICATE OF ANALYSIS



Hemp Analysis - Summary

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

TOTAL THC1



Scan to verify at sclabs.com

CANNABINOID PROFILE

4.7942% Total CBD¹ **5.338**% Total Cannabinoids³ **Terpenes** 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 30mg Full Spectrum Softgels

Tested for: 3B Holdings Sample ID: 191016S003

Address: Date Collected: 10/16/2019

Date Received: 10/16/2019

Batch #:

Final Approval

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.

Date: 10/24/2019



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

Sample Name: RR 30mg Full Spectrum Softgels

LIMS Sample ID: 191016S003

Batch #:

Source Metrc ID(s):

Sample Type: Infused, Non-Inhalable

Batch Count: Sample Count:

Unit Mass: 0.6728 Grams per Unit

Serving Mass:

Density:

Moisture Test Results

Results (%)
Moisture

Cannabinoid Test Results

10/18/2019

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

Δ9THC Δ8THC THCa THCV THCVa	mg/g 1.841 ND ND ND ND	% 0.1841 ND ND ND ND	0.0009 / 0.003 0.0009 / 0.003 0.0009 / 0.003 0.0009 / 0.003 0.0004 / 0.001 0.0013 / 0.004
CBD	47.942	4.7942	0.0009 / 0.003
CBDa	ND	ND	0.0009 / 0.003
CBDV	0.155	0.0155	0.0004 / 0.001
CBDVa	ND	ND	0.0003 / 0.001
CBDVa	1.123	0.1123	0.001 / 0.003
CBGa	ND	ND	0.0008 / 0.002
CBL	ND	ND	0.0021 / 0.006
CBN	ND	ND	0.0009 / 0.003
CBC	2.319	0.2319	0.0011 / 0.003
CBCa	ND	ND	0.0015 / 0.005
Sum of Cannabinoids: Total THC (Δ9THC+0.877*THCa)	53.380 1.841	5.338 3 0.1841	5.914 mg/Unit 1.239 mg/Unit

Total THC (Δ9THC+0.877*THCa) 1.841 0.1841 1.239 mg/Unit Total CBD (CBD+0.877*CBDa) 4.7942 32.255 mg/Unit

Batch Photo

Date Collected: 10/16/2019
Date Received: 10/16/2019
Tested for: 3B Holdings

License #:
Address:

Produced by:

License #: Address:

Overall result for batch: Pass

Terpene Test Results

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

, ,	mg/g	%	LOD / LOQ mg/g
	NT		
Valencene	NT		
Menthol	NT		
Nerolidol	NT		
	NT		
Myrcene	NT		
Fenchol	NT		
	NT		
R-(+)-Pulegone			
Geranyl Acetate			
Citronellol			
Phytol			

Total Terpene Concentration:

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

Josh Wurzer, President Date: 10/24/2019

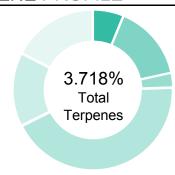


CERTIFICATE OF ANALYSIS

LITH 1644 x2

Batch ID:	N/A	Test ID:	9781889.0013
Reported:	3-May-2019	Method:	TM10
Туре:	Concentrate		
Test:	Terpenes		

TERPENE PROFILE



PREDOMINANT TERPENES

alpha-Pinene	0.000%	
(-)-beta-Pinene	0.000%	
beta-Myrcene	0.195%	
delta-3-Carene	0.000%	
alpha-Terpinene	0.000%	
d-Limonene	0.485%	
Linalool	0.091%	
beta-Caryophyllene		1.361%
alpha-Humulene	0.471%	
(-)-alpha-Bisabolol	0.550%	

Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.550	5.5
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	1.361	13.61
(-)-Caryophyllene Oxide	0.363	3.63
p-Cymene	0.000	0
Eucalyptol	0.013	0.13
Geraniol	0.000	0
alpha-Humulene	0.471	4.71
(-)-Isopulegol	0.024	0.24
d-Limonene	0.485	4.85
Linalool	0.091	0.91
beta-Myrcene	0.195	1.95
cis-Nerolidol	0.007	0.07
trans-Nerolidol	0.152	1.52
Ocimene	0.000	0
beta-Ocimene	0.006	0.06
alpha-Pinene	0.000	0
(-)-beta-Pinene	0.000	0
alpha-Terpinene	0.000	0
gamma-Terpinene	0.000	0
Terpinolene	0.000	0
	3.718%	37.18

NOTES:

FINAL APPROVAL

Chris Jungling 3-May-2019 3:54 PM

Mate 12

Mike Branvold 3-May-2019 5:21 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC. 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 OF ANALYSIS

LITH 1644

Batch ID:	N/A	Test ID:	6462370.023
Reported:	4-May-2019	Method:	Concentrate - Test Methods: TM05, TM06
Туре:	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

Examples: 10^2 = 100 CFU

10³ = 1,000 CFU 10⁴ = 10,000 CFU 10⁵ = 100,000 CFU

NOTES:

Free from visual mold, mildew, and foreign matter

TYM: None Detected

Total Aerobic: None Detected

FINAL APPROVAL

ZZ

Robert Belfon 4-May-2019 2:08 PM

Water ?

Mike Branvold 4-May-2019 8:36 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.

^{**} 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

Lith 1644

Batch ID: N/A Test ID: 2160948.002 Reported: 3-May-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	908
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 3-May-2019 5:25 PM

Mike Branvold 3-May-2019 5:30 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







Metals/Microbial Profile

 Customer Sample ID:
 Lith 1645
 Extraction Date(s):
 Analysis Date(s):

 Laboratory Number:
 201904-1469
 5/1/2019
 5/3/2019

 Extraction Technician MTO
 Analytical Chemist:
 RH
 RH

Metals (ICP/MS)		Results
	Method Code	ug/Kg (ppb)
Arsenic (As)	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.

		Results	
	Method Code		Units
Salmonella spp.	Salm.1	NA	/1g
Non-O157 STEC*	STEC.1.b	NA	/1g
Listeria monocytogenes	Lmono.2	NA	/1g
Aerobic Plate Count	APC.1a	NA	CFU/g
Total Coliform Bacteria	TCEC.1a	NA	CFU/g
Escherichia coli	TCEC.1a	NA	CFU/g
Staphylococcus aureus	S.aureus.1.a	NA	CFU/g
Yeast & Mold	Y&M.1a	NA	CFU/g

Limits for microbials 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.

This report expires 30 days after analysis date.



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>201904-1469</mark>	Operator	LCTQ
Sample ID	Lith 1645	Method	Triple Quad 4500
Acquisition Date	2019-05-01T06:04:24	Result Table	04302019
Data File	20190430.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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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	