



Certificate of Analysis

CLIENT:	Lazarus Naturals	SAMPLE:	HPTN @AG28-03
Attn.:		Laboratory ID:	180712-016
Address:		Type:	Concentrate
		Inventory ID:	-
		Batch ID:	-
		Received on:	07.12.2018
		Reported on:	07.13.2018

Cannabinoids method and instrument: UFLC-PDA

Cannabinoids		mg/mL	mg/Unit
Cannabidivarin	CBDV	ND	ND
Tetrahydrocannabivarin	THCV	ND	ND
Cannabidiol	CBD	50.25	50.25
Cannabigerol	CBG	1.54	1.54
Cannabidiolic Acid	CBDA	ND	ND
Cannabigerol Acid	CBGA	ND	ND
Cannabinol	CBN	ND	ND
delta-9-Tetrahydrocannabinol	THC	1.90	1.90
delta-8-Tetrahydrocannabinol	Δ8-THC	ND	ND
Cannabichromene	CBC	ND	ND
Tetrahydrocannabinolic Acid	THCA	0.18	0.18

Total CBX = CBX + (CBXA x 0.877)

Total THC 2.1
Total CBD 50.2
Unit Volume (mL) 1.0

Micro & Mycotoxin	Result	Unit	State Limit	Retest Limit
Not Reported	NR	CFU/g	NA	NA

Residual Solvents	Concentration	Unit	Class	State Limit
Not Reported	NR	PPM	NA	NA

Pesticides	Concentration	Unit	State Limit
Not Reported	NR	PPM	NA

Terpenes	Unit (mg/g)	Unit (mg/g)
Not Reported	NR	NR

NR = Not Reported
 ND = Not Detected
 DET = Detected
 LOD = Limit of Detection
 LOQ = Limit of Quantification
 % m/m = Percent by Mass
 % Mw = Percent Moisture, wet basis
 CFU/g = Colony Forming Units per gram
 TNTC = Too numerous to count
 SAL = State Acceptance Limit



*This report shall not be reproduced except in full, without the written approval of the lab. This report is for informational purposes only and should not be used to diagnose, treat or prevent any disease. Results are only for samples and batches indicated. Measurement uncertainties available upon request. Reporting limits available upon request. Results are valid for 6 months from date reported, unless otherwise indicated.



IEH Analytical Laboratories

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METALS REPORT

Results of Analysis by Mod. EPA Method 6020A

Measurement of Metals in Solids by ICP/MS

Company: Lazarus Naturals

Date Received: 1/31/2018

Matrix: Oil

Date Analyzed: 2/2/2018

Analyst: RM

Date of Report: 2/5/2018

Supervisor's Initials: DG

Case File No:	Sample ID	Sample Weight (g)	Final Vol. (mL)	Dilution	RL (mg/kg)	Arsenic (mg/kg)	Cadmium (mg/kg)	Mercury (mg/kg)	Lead (mg/kg)
MIS05049A1	03	0.51	50	1	0.10	< 0.10	0.13	< 0.10	0.20

RL: Reporting Limit

Results relate only to the submitted sample. IEH Analytical Laboratories makes no claim about the other portions of this commodity/lot.

Sample Name: 03

Client: cyclingfrogcali

Sample Type: Oil

Strain: Unknown

Submitted: February 07, 2018

Tested: February 07, 2018

Submitted for: Chemres,

Cannabinoid Profiling

Analysis of major cannabinoids by advanced chromatography. [GC: SOP-010; HPLC: SOP-014]

	HPLC		GC	
	Percent	mg/g	Percent	mg/g
d9-THC	NA	NA	NA	NA
d8-THC	NA	NA	NA	NA
THCA	NA	NA	NA	NA
THCV	NA	NA	NA	NA
CBG	NA	NA	NA	NA
CBGA	NA	NA	NA	NA
CBN	NA	NA	NA	NA
CBD	NA	NA	NA	NA
CBDV	NA	NA	NA	NA
CBDA	NA	NA	NA	NA
Total	NA	NA	NA	NA



Microbiological Screening

Petrifilm screening for microbiological contamination. [SOP-009]

	Count	Client Limit**	Status***
APC	NA		
Yeast & Mold	NA		
Coliform	NA		
E coli	NA		
Pseudomonas	NA		
Salmonella	NA		

*TNTC = Too Numerous To Count

**Client Limit = The limit is self-selected and will be replaced by official CA state limits when they become available.

***Pass/Fail based on client limit selected.

†ND = Not Detected

Terpene Profiling

Analysis of terpenes. [SOP-012]

PPM		PPM		PPM	
b-Myrcene	NT	Sabinene	NT	Elemene	NT
Nerol	NT	b-Pinene	NT	Phellandrene	NT
Nerolidol	NT	Camphene	NT	Isopulegol	NT
Ocimene	NT	Eucalyptol	NT	Linalool	NT
a-Bisbolol	NT	(-)-Fenchone	NT	(+)-Fenchone	NT
Farnasene	NT	Fenchol	NT	a-Caryophyllene	NT
Valencene	NT	Camphor	NT	Guaiol	NT
d3-Carene	NT	Borneol	NT	Bergamotene	NT
d-Limonene	NT	Pulegone	NT	Terpineol	NT
g-Terpinene	NT	Cedrol	NT	Terpinolene	NT
a-Pinene	NT	b-Caryophyllene	NT	a-Terpinene	NT
Total Terpenes		0.0 PPM			

*ND = Not Detected

Residual Solvent Analysis

Analysis of residual solvents. [SOP-011]

	PPM	Client Limit**		PPM	Client Limit**
Acetone	NT	400	Methanol	NT	400
Benzene	NT	400	nButane	NT	400
Ethanol	NT	400	Pentane	NT	400
Heptane	NT	400	Propane	NT	400
Hexane	NT	400	Toluene	NT	400
Isopropanol	NT	400			

*ND = Not Detected

**Client Limit is self-selected and will be replaced by official CA State limits when they become available



Sample Name: 03

Client: cyclingfrogcali

Sample Type: Oil

Strain: Unknown

Submitted: February 07, 2018

Tested: February 07, 2018

Submitted for: Chemres,

Chemical Residue Screening

Targeted analysis of chemical residues. [SOP-017]

	PPB	Client Limit*	Status***		PPB	Client Limit**	Status***
Abamectin	ND*	100	Pass	Imidacloprid	ND*	Pass	100
Azoxystrobin	ND*	100	Pass	Malathion	ND*	Pass	100
Bifenazate	ND*	100	Pass	Metalaxyl	ND*	Pass	100
Bifenthrin	ND*	100	Pass	Myclobutanil	ND*	Pass	100
Boscalid	ND*	100	Pass	Paclobutrazol	ND*	Pass	100
Carbaryl	ND*	100	Pass	Permethrin	ND*	Pass	100
Dichlorvos	ND*	100	Pass	Spirotetramat	ND*	Pass	100
Etoazole	ND*	100	Pass	Tebuconazole	ND*	Pass	100
Fenoxycarb	ND*	100	Pass	Trifloxystrobin	ND*	Pass	100
Imazalil	ND*	100	Pass				

Sum of Chem. Residues 0 PPB

*ND = Not Detected

**Client Limit is self-selected and will be replaced by official CA State limits when they become available

***Pass/Fail based on client limit selected.

