



# Certificate of Analysis

<b>CLIENT:</b>	<b>Lazarus Naturals</b>	<b>SAMPLE:</b>	<b>HPTN @AG55KA/BD(B)</b>
Attn.:		Laboratory ID:	180803-005
Address:		Type:	Extract
		Inventory ID:	-
		Batch ID:	-
		Received on:	08.03.2018
		Reported on:	08.03.2018

Cannabinoids method and instrument: UFLC-PDA

Cannabinoids		mg/mL	mg/Unit
Cannabidivarin	CBDV	0.19	0.19
Tetrahydrocannabivarin	THCV	0.17	0.17
Cannabidiol	CBD	54.44	54.44
Cannabigerol	CBG	ND	ND
Cannabidiolic Acid	CBDA	ND	ND
Cannabigerol Acid	CBGA	ND	ND
Cannabinol	CBN	ND	ND
delta-9-Tetrahydrocannabinol	THC	1.70	1.70
delta-8-Tetrahydrocannabinol	Δ8-THC	ND	ND
Cannabichromene	CBC	3.47	3.47
Tetrahydrocannabinolic Acid	THCA	ND	ND

Total CBX = CBX + (CBXA x 0.877)

**Total THC** 1.7  
**Total CBD** 54.4  
**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



Authorized Signature:

Kyle Shelton



\*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

3927 Aurora Ave. N. , Seattle, WA 98103 | (206) 632-2715

## METALS REPORT

Results of Analysis by Mod. EPA Method 6020A

Measurement of Metals in Solids by ICP/MS

**Company:** Lazarus Naturals

**Date Received:** 11/27/2017

**Matrix:** Extract

**Date Analyzed:** 11/28/2017

**Analyst:** KW

**Date of Report:** 12/5/2017

**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)
MIS04960A1	11	0.52	50	1	0.01	< 0.01	< 0.01	< 0.01	< 0.01

RL: Reporting Limit

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



# IEH Analytical Laboratories

3927 Aurora Ave. N. , Seattle, WA 98103 | (206) 632-2715

## 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: 11**

Client: cyclingfrogcali

Sample Type: Shake

Strain: Unknown

Submitted: April 17, 2017

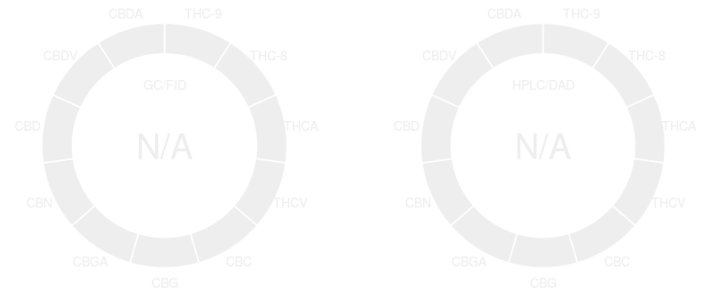
Tested: April 17, 2017

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
CBC	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
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>



**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.

**Terpene Profiling**

Analysis of terpenes. [SOP-012]

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

\*ND = Not Detected

**Residual Solvent Analysis**

Analysis of residual solvents. [SOP-011]

	PPM	Client Limit**		PPM	Client Limit**
Acetone	NA	400	Isopentane	NA	400
Benzene	NA	400	Isopropanol	NA	400
Chloroform	NA	400	Methanol	NA	400
Ethanol	NA	400	nButane	NA	400
Heptane	NA	400	Pentane	NA	400
Hexane	NA	400	Propane	NA	400
Isobutane	NA	400	Toluene	NA	400

\*ND = Not Detected

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

CW uses its best efforts to deliver high quality results and to verify that the data contained therein are based on sound scientific judgement. However, CW makes no warranties or claims to that effect and further shall not be liable for any damage or misrepresentation that may result from the use or misuse of these data in any way. Further, CW makes no claims regarding the representativeness of the analyzed sample to the larger batch from which it was taken. As part of our strict confidentiality policy, CW can only discuss results with the original client of record. Comments? lab@cwanalytical.com



This sample was tested by CW Analytical Laboratories. Results are valid through the expiration date indicated.

*Robert W Martin, PhD*  
Robert W Martin, PhD

## Sample Name: 11

Client: cyclingfrogcali

Sample Type: Shake

Strain: Unknown

Submitted: April 17, 2017

Tested: April 17, 2017

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*	100	Pass
Azoxystrobin	ND*	100	Pass	Malathion	ND*	100	Pass
Bifenazate	ND*	100	Pass	Metalaxyl	ND*	100	Pass
Bifenthrin	ND*	100	Pass	Myclobutanil	ND*	100	Pass
Boscalid	ND*	100	Pass	Paclobutrazol	ND*	100	Pass
Carbaryl	ND*	100	Pass	Permethrin	ND*	100	Pass
Dichlorvos	ND*	100	Pass	Spiromesifen	ND*	100	Pass
Etoxazole	ND*	100	Pass	Spirotetramat	ND*	100	Pass
Fenoxycarb	ND*	100	Pass	Tebuconazole	ND*	100	Pass
Imazalil	ND*	100	Pass	Trifloxystrobin	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.



**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
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>



**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
<b>Total Terpenes</b>		<b>0.0 PPM</b>			

\*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



This sample was tested by CW Analytical Laboratories. Results are valid through the expiration date indicated.

*Robert W Martin, PhD*  
 Robert W Martin, PhD

## 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.

