



Certificate of Analysis

CLIENT:	Lazarus Naturals	SAMPLE:	HPTN 07:47
Attn.:		Laboratory ID:	180918-003
Address:		Type:	Tincture
		Inventory ID:	-
		Batch ID:	-
		Received on:	09.18.2018
		Reported on:	09.18.2018

Cannabinoids method and instrument: UFLC-PDA

Cannabinoids		mg/mL	mg/Unit
Cannabidiol	CBDV	ND	ND
Tetrahydrocannabivarin	THCV	ND	ND
Cannabidiol	CBD	54.71	54.71
Cannabigerol	CBG	1.24	1.24
Cannabidiolic Acid	CBDA	0.20	0.20
Cannabigerol Acid	CBGA	0.65	0.65
Cannabinol	CBN	0.15	0.15
delta-9-Tetrahydrocannabinol	THC	1.64	1.64
delta-8-Tetrahydrocannabinol	Δ8-THC	ND	ND
Cannabichromene	CBC	ND	ND
Tetrahydrocannabinolic Acid	THCA	ND	ND
Total CBX = CBX + (CBXA x 0.877)	Total THC	1.64	1.64
	Total CBD	54.89	54.89

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



Authorized Signature:

Kyle Shelton



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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: 4/16/2018

Matrix: Oil

Date Analyzed: 4/19/2018

Analyst: KW

Date of Report: 4/23/2018

Supervisor's Initials: RM

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)
MIS05158A1	07	0.54	50	1	0.01	0.02	0.02	< 0.01	0.07

RL: Reporting Limit

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

Analytical Test Report

07

Lazarus Naturals

Laboratory ID: 1804090-02

Batch ID:

Date Sampled: 04/24/18

Date Printed: 04/27/18

Report cannot be used for OLCC/OHA compliance.

07

Date Sampled: 04/24/18 00:00

Date Accepted: 04/24/18

Lazarus Naturals

Sample ID: 07

Matrix: Extracts and Concentrates

M #:

Pesticide Analysis in PPM

Date/Time Extracted: 04/25/18 18:58

Date/Time GC Analyzed:

Analysis Method/SOP: *** DEFAULT SPEC

Date/Time LC Analyzed:

Batch Identification: B18D130

Analyte	Result	Action Level	LOQ	Type
Abamectin	< LOQ	0.5	0.2500	
Acephate	< LOQ	0.4	0.2000	Organophosphate Insecticide
Acequinocyl	< LOQ	2	1.000	
Acetamiprid	< LOQ	0.2	0.1000	Neonicotinoid insecticide
Aldicarb	< LOQ	0.4	0.2000	Carbamate insecticide
Azoxystrobin	< LOQ	0.2	0.1000	
Bifenazate	< LOQ	0.2	0.1000	Unclassified insecticide
Bifenthrin	< LOQ	0.2	0.1000	
Boscalid	< LOQ	0.4	0.2000	Anilide fungicide
Carbaryl	< LOQ	0.2	0.1000	Carbamate insecticide
Carbofuran	< LOQ	0.2	0.1000	Carbamate insecticide
Chlorantraniliprole	< LOQ	0.2	0.1000	Anthranilic diamide insecticide
Chlorfenapyr	< LOQ	1	0.5000	Pyrazole insecticide
Chlorpyrifos	< LOQ	0.2	0.1000	Organophosphate Insecticide
Clofentezine	< LOQ	0.2	0.1000	
Cyfluthrin	< LOQ	1	0.5000	
Cypermethrin	< LOQ	1	0.5000	
Daminozide	< LOQ	1	0.5000	
DDVP (Dichlorvos)	< LOQ	1	0.5000	
Diazinon	< LOQ	0.2	0.1000	Organophosphate Insecticide
Dimethoate	< LOQ	0.2	0.1000	
Ethoprophos	< LOQ	0.2	0.1000	
Etofenprox	< LOQ	0.4	0.2000	
Etoxazole	< LOQ	0.2	0.1000	Unclassified miticide
Fenoxycarb	< LOQ	0.2	0.1000	
Fenpyroximate	< LOQ	0.4	0.2000	



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Analytical Test Report

07

Lazarus Naturals

Laboratory ID: 1804090-02

07

Date Sampled: 04/24/18 00:00

Date Accepted: 04/24/18

Lazarus Naturals

Sample ID: 07

Matrix: Extracts and Concentrates

M #:

Pesticide Analysis in PPM

Date/Time Extracted: 04/25/18 18:58

Date/Time GC Analyzed:

Analysis Method/SOP: *** DEFAULT SPEC

Date/Time LC Analyzed:

Batch Identification: B18D130

Analyte	Result	Action Level	LOQ	Type
Fipronil	< LOQ	0.4	0.2000	Pyrazole insecticide
Flonicamid	< LOQ	1	0.5000	Pyridinecarboxamide insecticide
Fludioxonil	< LOQ	0.4	0.2000	non-systemic fungicide
Hexythiazox	< LOQ	1	0.5000	
Imazalil	< LOQ	0.2	0.1000	Azole fungicide
Imidacloprid	< LOQ	0.4	0.2000	Neonicotinoid insectide
Kresoxim-methyl	< LOQ	0.4	0.2000	
Malathion	< LOQ	0.2	0.1000	
Metalaxyl	< LOQ	0.2	0.1000	
Methiocarb	< LOQ	0.2	0.1000	Carbamate insecticide
Methomyl	< LOQ	0.4	0.2000	Carbamate insecticide
Methyl parathion	< LOQ	0.2	0.1000	
MGK-264	< LOQ	0.2	0.1000	
Myclobutanil	< LOQ	0.2	0.1000	Azole fungicide
Naled	< LOQ	0.5	0.2500	
Oxamyl	< LOQ	1	1.000	Carbamate insecticide
Pacllobutrazol	< LOQ	0.4	0.2000	Azole plant growth regulator
Permethrins	< LOQ	0.2	0.1000	
Phosmet	< LOQ	0.2	0.1000	Organophosphate insecticide
Piperonyl butoxide	< LOQ	2	0.5000	
Prallethrin	< LOQ	0.2	0.1000	
Propiconazole	< LOQ	0.4	0.2000	
Propoxur	< LOQ	0.2	0.1000	Carbamate insecticide
Pyrethrins	< LOQ	1	0.5000	
Pyridaben	< LOQ	0.2	0.1000	Unclassified insecticide
Spinosad	< LOQ	0.2	0.1000	Spinosyn insecticide
Spiromesifen	< LOQ	0.2	0.1000	Keto-enol insecticide
Spirotetramat	< LOQ	0.2	0.1000	Keto-enol insecticide
Spiroxamine	< LOQ	0.4	0.2000	Unclassified fungicide
Tebuconazole	< LOQ	0.4	0.2000	
Thiacloprid	< LOQ	0.2	0.1000	
Thiamethoxam	< LOQ	0.2	0.1000	Neonicotinoid insectide
Trifloxystrobin	< LOQ	0.2	0.1000	Strobin fungicide



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Analytical Test Report

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Lazarus Naturals

Laboratory ID: 1804090-02

<LOQ - Results below the Limit of Quantitation - Compound not detected
Results above the Action Level fail state testing requirements and will be highlighted **Red**.



Chris Nielsen, Lab Director 4/27/2018

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Analytical Test Report

07

Lazarus Naturals

Laboratory ID: 1804090-02

Quality Control Pesticide Analysis

Batch: B18D130 - Pest

Blank(B18D130-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.2500	ppm		04/25/18 18:58	04/25/18 22:58	
Acephate	< LOQ	0.2000	ppm		04/25/18 18:58	04/25/18 22:58	
Acequinocyl	< LOQ	1.000	ppm		04/25/18 18:58	04/25/18 22:58	
Acetamiprid	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Aldicarb	< LOQ	0.2000	ppm		04/25/18 18:58	04/25/18 22:58	
Azoxystrobin	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Bifenazate	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Bifenthrin	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Boscalid	< LOQ	0.2000	ppm		04/25/18 18:58	04/25/18 22:58	
Carbaryl	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Carbofuran	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Chlorantraniliprole	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Chlorfenapyr	< LOQ	0.5000	ppm		04/25/18 18:58	04/25/18 22:58	
Chlorpyrifos	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Clofentezine	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Cyfluthrin	< LOQ	0.5000	ppm		04/25/18 18:58	04/25/18 22:58	
Cypermethrin	< LOQ	0.5000	ppm		04/25/18 18:58	04/25/18 22:58	
Daminozide	< LOQ	0.5000	ppm		04/25/18 18:58	04/25/18 22:58	
DDVP (Dichlorvos)	< LOQ	0.5000	ppm		04/25/18 18:58	04/25/18 22:58	
Diazinon	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Dimethoate	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Ethoprophos	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Etofenprox	< LOQ	0.2000	ppm		04/25/18 18:58	04/25/18 22:58	
Etoxazole	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Fenoxycarb	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Fenpyroximate	< LOQ	0.2000	ppm		04/25/18 18:58	04/25/18 22:58	
Fipronil	< LOQ	0.2000	ppm		04/25/18 18:58	04/25/18 22:58	
Flonicamid	< LOQ	0.5000	ppm		04/25/18 18:58	04/25/18 22:58	
Fludioxonil	< LOQ	0.2000	ppm		04/25/18 18:58	04/25/18 22:58	
Hexythiazox	< LOQ	0.5000	ppm		04/25/18 18:58	04/25/18 22:58	
Imazalil	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Imidacloprid	< LOQ	0.2000	ppm		04/25/18 18:58	04/25/18 22:58	
Kresoxim-methyl	< LOQ	0.2000	ppm		04/25/18 18:58	04/25/18 22:58	
Malathion	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Metalaxyl	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Methiocarb	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Methomyl	< LOQ	0.2000	ppm		04/25/18 18:58	04/25/18 22:58	
Methyl parathion	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
MGK-264	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	



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Analytical Test Report

07

Lazarus Naturals

Laboratory ID: 1804090-02

Quality Control Pesticide Analysis (Continued)

Batch: B18D130 - Pest (Continued)

Blank(B18D130-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Myclobutanil	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Naled	< LOQ	0.2500	ppm		04/25/18 18:58	04/25/18 22:58	
Oxamyl	< LOQ	1.000	ppm		04/25/18 18:58	04/25/18 22:58	
Paclobutrazol	< LOQ	0.2000	ppm		04/25/18 18:58	04/25/18 22:58	
Permethrins	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Phosmet	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Piperonyl butoxide	< LOQ	0.5000	ppm		04/25/18 18:58	04/25/18 22:58	
Prallethrin	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Propiconazole	< LOQ	0.2000	ppm		04/25/18 18:58	04/25/18 22:58	
Propoxur	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Pyrethrins	< LOQ	0.5000	ppm		04/25/18 18:58	04/25/18 22:58	
Pyridaben	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Spinosad	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Spiromesifen	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Spirotetramat	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Spiroxamine	< LOQ	0.2000	ppm		04/25/18 18:58	04/25/18 22:58	
Tebuconazole	< LOQ	0.2000	ppm		04/25/18 18:58	04/25/18 22:58	
Thiacloprid	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Thiamethoxam	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	
Trifloxystrobin	< LOQ	0.1000	ppm		04/25/18 18:58	04/25/18 22:58	

LCS(B18D130-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	42.6	0.2500	ppm	70-130	04/25/18 18:58	04/25/18 22:38	Q1
Acephate	82.0	0.2000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Acequinocyl	82.4	1.000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Acetamiprid	89.8	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Aldicarb	97.5	0.2000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Azoxystrobin	99.7	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Bifenazate	99.0	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Bifenthrin	85.5	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Boscalid	93.9	0.2000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Carbaryl	89.7	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Carbofuran	86.1	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Chlorantraniliprole	119	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Chlorfenapyr	111	0.5000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Chlorpyrifos	117	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Clofentezine	107	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Cyfluthrin	100	0.5000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	



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Analytical Test Report

07

Lazarus Naturals

Laboratory ID: 1804090-02

Quality Control Pesticide Analysis (Continued)

Batch: B18D130 - Pest (Continued)

LCS(B18D130-BS1)									
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes		
Cypermethrin	127	0.5000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Daminozide	82.2	0.5000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
DDVP (Dichlorvos)	85.0	0.5000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Diazinon	92.8	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Dimethoate	83.2	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Ethoprophos	108	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Etofenprox	105	0.2000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Etoazole	96.8	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Fenoxycarb	92.0	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Fenpyroximate	86.5	0.2000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Fipronil	101	0.2000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Flonicamid	74.1	0.5000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Fludioxonil	115	0.2000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Hexythiazox	109	0.5000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Imazalil	107	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Imidacloprid	65.2	0.2000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			LCS
Kresoxim-methyl	92.3	0.2000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Malathion	94.4	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Metalaxyl	110	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Methiocarb	99.8	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Methomyl	74.7	0.2000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Methyl parathion	111	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
MGK-264	107	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Myclobutanil	93.9	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Naled	103	0.2500	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Oxamyl	72.0	1.000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Paclobutrazol	99.4	0.2000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Permethrins	93.1	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Phosmet	93.5	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Piperonyl butoxide	92.5	0.5000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Prallethrin	107	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Propiconazole	91.8	0.2000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Propoxur	82.8	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Pyrethrins	96.8	0.5000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Pyridaben	86.7	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Spinosad	98.5	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Spiromesifen	88.6	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Spirotetramat	84.9	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			
Spiroxamine	88.9	0.2000	ppm	70-130	04/25/18 18:58	04/25/18 22:38			



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Analytical Test Report

07

Lazarus Naturals

Laboratory ID: 1804090-02

Quality Control Pesticide Analysis (Continued)

Batch: B18D130 - Pest (Continued)

LCS(B18D130-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Tebuconazole	90.8	0.2000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Thiacloprid	90.4	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Thiamethoxam	71.8	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	
Trifloxystrobin	97.9	0.1000	ppm	70-130	04/25/18 18:58	04/25/18 22:38	

Notes and Definitions

- B Analyte detected in method blank, but not associated samples.
 - B2 Analyte detected in sample and associate method blank.
 - C Interference due to co-elution.
 - D Initial result exceeded calibration range, reported data are based on analysis of a dilution.
 - H Non-homogenous sample matrix affecting RPD and/or QC.
 - I Manual Integration was performed.
 - L Duplicate sample relative percent difference (RPD) exceeds QC limits.
 - M Anomalous results due to matrix interference
 - P Peaks manually split.
 - Q1 QC out of limits but still oK
 - Q2 Quality Control outside QC limits. Data considered estimate.
 - Q3 CCV was above the acceptance criteria. Non-detect samples are considered acceptable.
 - Q4 CCV was below the acceptance criteria, however the sample still exceeds the regulatory limit.
 - R Marginal Exceedence.
 - U Reported result is an estimate. The analyte was detected above the calibration range.
 - X Problems with initial analysis, reported data are from reinjection of prepared sample.
- <LOQ - Results below the Limit of Quantitation - Compound not detected



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