



# Certificate of Analysis

<b>CLIENT:</b>	<b>Lazarus Naturals</b>	<b>SAMPLE:</b>	<b>HPTN 07:29 (1)</b>
Attn.:		Laboratory ID:	180626-007
Address:		Type:	Concentrate
		Inventory ID:	-
		Batch ID:	-
		Received on:	06.26.2018
		Reported on:	06.27.2018

Cannabinoids method and instrument: UFLC-PDA

Cannabinoids		mg/mL	mg/Unit
Cannabidivarin	CBDV	ND	ND
Tetrahydrocannabivarin	THCV	ND	ND
Cannabidiol	CBD	51.66	51.66
Cannabigerol	CBG	0.98	0.98
Cannabidiolic Acid	CBDA	ND	ND
Cannabigerol Acid	CBGA	ND	ND
Cannabinol	CBN	ND	ND
delta-9-Tetrahydrocannabinol	THC	2.03	2.03
delta-8-Tetrahydrocannabinol	Δ8-THC	ND	ND
Cannabichromene	CBC	4.08	4.08
Tetrahydrocannabinolic Acid	THCA	0.17	0.17
<b>Total CBX = CBX + (CBXA x 0.877)</b>		<b>Total THC</b>	<b>2.2</b>
		<b>Total CBD</b>	<b>51.7</b>
		<b>Unit Volume (mL)</b>	<b>1.0</b>

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



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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)
MIS05160A1	08	0.54	50	1	0.01	0.12	0.02	< 0.01	0.26

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

## 08

*Lazarus Naturals*

Laboratory ID: 1805024-04

Batch ID: Brad

Date Sampled: 05/07/18

Date Printed: 05/10/18

Report cannot be used for OLCC/OHA compliance.

### AD40Brad

Date Sampled: 05/07/18 00:00

Date Accepted: 05/07/18

*Lazarus Naturals*

Sample ID: 08

Matrix: Products

M #:

### Pesticide Analysis in PPM

Date/Time Extracted: 05/08/18 17:16

Date/Time GC Analyzed:

Analysis Method/SOP: \*\*\* DEFAULT SPEC

Date/Time LC Analyzed:

Batch Identification: B18E032

Analyte	Result	Action Level	LOQ	Type
Abamectin	< LOQ	0.5	0.2403	
Acephate	< LOQ	0.4	0.1922	Organophosphate Insecticide
Acequinocyl	< LOQ	2	0.9612	
Acetamiprid	< LOQ	0.2	0.09612	Neonicotinoid insecticide
Aldicarb	< LOQ	0.4	0.1922	Carbamate insecticide
Azoxystrobin	< LOQ	0.2	0.09612	
Bifenazate	< LOQ	0.2	0.09612	Unclassified insecticide
Bifenthrin	< LOQ	0.2	0.09612	
Boscalid	< LOQ	0.4	0.1922	Anilide fungicide
Carbaryl	< LOQ	0.2	0.09612	Carbamate insecticide
Carbofuran	< LOQ	0.2	0.09612	Carbamate insecticide
Chlorantraniliprole	< LOQ	0.2	0.09612	Anthranilic diamide insecticide
Chlorfenapyr	< LOQ	1	0.4806	Pyrazole insecticide
Chlorpyrifos	< LOQ	0.2	0.09612	Organophosphate Insecticide
Clofentezine	< LOQ	0.2	0.09612	
Cyfluthrin	< LOQ	1	0.4806	
Cypermethrin	< LOQ	1	0.4806	
Daminozide	< LOQ	1	0.4806	
DDVP (Dichlorvos)	< LOQ	1	0.4806	
Diazinon	< LOQ	0.2	0.09612	Organophosphate Insecticide
Dimethoate	< LOQ	0.2	0.09612	
Ethoprophos	< LOQ	0.2	0.09612	
Etofenprox	< LOQ	0.4	0.1922	
Etoxazole	< LOQ	0.2	0.09612	Unclassified miticide
Fenoxycarb	< LOQ	0.2	0.09612	
Fenpyroximate	< LOQ	0.4	0.1922	



Chris Nielsen, Lab Director 5/10/2018

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# Analytical Test Report

## 08

*Lazarus Naturals*

Laboratory ID: 1805024-04

## 08

Date Sampled: 05/07/18 00:00

Date Accepted: 05/07/18

*Lazarus Naturals*

Sample ID: 08

Matrix: Products

M #:

### Pesticide Analysis in PPM

Date/Time Extracted: 05/08/18 17:16

Date/Time GC Analyzed:

Analysis Method/SOP: \*\*\* DEFAULT SPEC

Date/Time LC Analyzed:

Batch Identification: B18E032

Analyte	Result	Action Level	LOQ	Type
Fipronil	< LOQ	0.4	0.1922	Pyrazole insecticide
Flonicamid	< LOQ	1	0.4806	Pyridinecarboxamide insecticide
Fludioxonil	< LOQ	0.4	0.1922	non-systemic fungicide
Hexythiazox	< LOQ	1	0.4806	
Imazalil	< LOQ	0.2	0.09612	Azole fungicide
Imidacloprid	< LOQ	0.4	0.1922	Neonicotinoid insectide
Kresoxim-methyl	< LOQ	0.4	0.1922	
Malathion	< LOQ	0.2	0.09612	
Metalaxyl	< LOQ	0.2	0.09612	
Methiocarb	< LOQ	0.2	0.09612	Carbamate insecticide
Methomyl	< LOQ	0.4	0.1922	Carbamate insecticide
Methyl parathion	< LOQ	0.2	0.09612	
MGK-264	< LOQ	0.2	0.09612	
Myclobutanil	< LOQ	0.2	0.09612	Azole fungicide
Naled	< LOQ	0.5	0.2403	
Oxamyl	< LOQ	1	0.9612	Carbamate insecticide
Paclobutrazol	< LOQ	0.4	0.1922	Azole plant growth regulator
Permethrins	< LOQ	0.2	0.09612	
Phosmet	< LOQ	0.2	0.09612	Organophosphate insecticide
Piperonyl butoxide	< LOQ	2	0.4806	
Prallethrin	< LOQ	0.2	0.09612	
Propiconazole	< LOQ	0.4	0.1922	
Propoxur	< LOQ	0.2	0.09612	Carbamate insecticide
Pyrethrins	< LOQ	1	0.4806	
Pyridaben	< LOQ	0.2	0.09612	Unclassified insecticide
<b>Spinosad</b>	<b>10.13</b>	<b>0.2</b>	<b>0.09612</b>	<b>Spinosyn insecticide</b>
Spiromesifen	< LOQ	0.2	0.09612	Keto-enol insecticide
Spirotetramat	< LOQ	0.2	0.09612	Keto-enol insecticide
Spiroxamine	< LOQ	0.4	0.1922	Unclassified fungicide
Tebuconazole	< LOQ	0.4	0.1922	
Thiacloprid	< LOQ	0.2	0.09612	
Thiamethoxam	< LOQ	0.2	0.09612	Neonicotinoid insectide
Trifloxystrobin	< LOQ	0.2	0.09612	Strobin fungicide



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# Analytical Test Report

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## 08

*Lazarus Naturals*

Laboratory ID: 1805024-04

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<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 5/10/2018

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# Analytical Test Report

## 08

*Lazarus Naturals*

Laboratory ID: 1805024-04

## Quality Control Pesticide Analysis

Batch: B18E032 - Pest

Blank(B18E032-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.2500	ppm		05/08/18 17:16	05/09/18 19:06	
Acephate	< LOQ	0.2000	ppm		05/08/18 17:16	05/09/18 19:06	
Acequinocyl	< LOQ	1.000	ppm		05/08/18 17:16	05/09/18 19:06	
Acetamiprid	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Aldicarb	< LOQ	0.2000	ppm		05/08/18 17:16	05/09/18 19:06	
Azoxystrobin	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Bifenazate	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Bifenthrin	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Boscalid	< LOQ	0.2000	ppm		05/08/18 17:16	05/09/18 19:06	
Carbaryl	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Carbofuran	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Chlorantraniliprole	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Chlorfenapyr	< LOQ	0.5000	ppm		05/08/18 17:16	05/09/18 19:06	
Chlorpyrifos	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Clofentezine	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Cyfluthrin	< LOQ	0.5000	ppm		05/08/18 17:16	05/09/18 19:06	
Cypermethrin	< LOQ	0.5000	ppm		05/08/18 17:16	05/09/18 19:06	
Daminozide	< LOQ	0.5000	ppm		05/08/18 17:16	05/09/18 19:06	
DDVP (Dichlorvos)	< LOQ	0.5000	ppm		05/08/18 17:16	05/09/18 19:06	
Diazinon	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Dimethoate	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Ethoprophos	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Etofenprox	< LOQ	0.2000	ppm		05/08/18 17:16	05/09/18 19:06	
Etoxazole	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Fenoxycarb	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Fenpyroximate	< LOQ	0.2000	ppm		05/08/18 17:16	05/09/18 19:06	
Fipronil	< LOQ	0.2000	ppm		05/08/18 17:16	05/09/18 19:06	
Flonicamid	< LOQ	0.5000	ppm		05/08/18 17:16	05/09/18 19:06	
Fludioxonil	< LOQ	0.2000	ppm		05/08/18 17:16	05/09/18 19:06	
Hexythiazox	< LOQ	0.5000	ppm		05/08/18 17:16	05/09/18 19:06	
Imazalil	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Imidacloprid	< LOQ	0.2000	ppm		05/08/18 17:16	05/09/18 19:06	
Kresoxim-methyl	< LOQ	0.2000	ppm		05/08/18 17:16	05/09/18 19:06	
Malathion	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Metalaxyl	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Methiocarb	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Methomyl	< LOQ	0.2000	ppm		05/08/18 17:16	05/09/18 19:06	
Methyl parathion	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
MGK-264	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	



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# Analytical Test Report

## 08

*Lazarus Naturals*

Laboratory ID: 1805024-04

## Quality Control Pesticide Analysis (Continued)

Batch: B18E032 - Pest (Continued)

### Blank(B18E032-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Myclobutanil	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Naled	< LOQ	0.2500	ppm		05/08/18 17:16	05/09/18 19:06	
Oxamyl	< LOQ	1.000	ppm		05/08/18 17:16	05/09/18 19:06	
Paclobutrazol	< LOQ	0.2000	ppm		05/08/18 17:16	05/09/18 19:06	
Permethrins	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Phosmet	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Piperonyl butoxide	< LOQ	0.5000	ppm		05/08/18 17:16	05/09/18 19:06	
Prallethrin	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Propiconazole	< LOQ	0.2000	ppm		05/08/18 17:16	05/09/18 19:06	
Propoxur	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Pyrethrins	< LOQ	0.5000	ppm		05/08/18 17:16	05/09/18 19:06	
Pyridaben	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Spinosad	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Spiromesifen	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Spirotetramat	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Spiroxamine	< LOQ	0.2000	ppm		05/08/18 17:16	05/09/18 19:06	
Tebuconazole	< LOQ	0.2000	ppm		05/08/18 17:16	05/09/18 19:06	
Thiacloprid	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Thiamethoxam	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	
Trifloxystrobin	< LOQ	0.1000	ppm		05/08/18 17:16	05/09/18 19:06	

### LCS(B18E032-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	115	0.2500	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Acephate	92.3	0.2000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Acequinocyl	101	1.000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Acetamiprid	96.7	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Aldicarb	100	0.2000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Azoxystrobin	104	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Bifenazate	92.0	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Bifenthrin	91.5	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Boscalid	104	0.2000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Carbaryl	102	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Carbofuran	103	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Chlorantraniliprole	90.1	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Chlorfenapyr	80.6	0.5000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Chlorpyrifos	89.3	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Clofentezine	101	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Cyfluthrin	110	0.5000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	



Chris Nielsen, Lab Director 5/10/2018

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# Analytical Test Report

## 08

*Lazarus Naturals*

Laboratory ID: 1805024-04

## Quality Control Pesticide Analysis (Continued)

Batch: B18E032 - Pest (Continued)

LCS(B18E032-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cypermethrin	75.0	0.5000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Daminozide	81.9	0.5000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
DDVP (Dichlorvos)	72.8	0.5000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Diazinon	98.6	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Dimethoate	105	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Ethoprophos	89.3	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Etofenprox	98.2	0.2000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Etoxazole	97.6	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Fenoxycarb	97.5	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Fenpyroximate	101	0.2000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Fipronil	101	0.2000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Flonicamid	106	0.5000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Fludioxonil	93.9	0.2000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Hexythiazox	95.5	0.5000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Imazalil	100	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Imidacloprid	115	0.2000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Kresoxim-methyl	110	0.2000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Malathion	108	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Metalaxyl	102	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Methiocarb	99.7	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Methomyl	88.8	0.2000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Methyl parathion	115	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
MGK-264	96.2	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Myclobutanil	95.0	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Naled	98.0	0.2500	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Oxamyl	115	1.000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Paclobutrazol	82.5	0.2000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Permethrins	92.6	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Phosmet	108	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Piperonyl butoxide	104	0.5000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Prallethrin	92.2	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Propiconazole	101	0.2000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Propoxur	94.6	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Pyrethrins	96.5	0.5000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Pyridaben	105	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Spinosad	93.4	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Spiromesifen	99.2	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Spirotetramat	107	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Spiroxamine	96.6	0.2000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	



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# Analytical Test Report

## 08

*Lazarus Naturals*

Laboratory ID: 1805024-04

## Quality Control Pesticide Analysis (Continued)

Batch: B18E032 - Pest (Continued)

LCS(B18E032-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Tebuconazole	104	0.2000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Thiacloprid	100	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Thiamethoxam	116	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	
Trifloxystrobin	104	0.1000	ppm	70-130	05/08/18 17:16	05/09/18 18:46	

### 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



Chris Nielsen, Lab Director 5/10/2018

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