



12423 NE Whitaker Way  
 Portland, OR 97230  
 503-254-1794



**Report Number:** 23-003388/D003.R000  
**Report Date:** 04/12/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/21/23 14:07

**Customer:** IHC LLC  
**Product identity:** 01LIRSUG200\_Lava  
**Client/Metric ID:** .  
**Laboratory ID:** 23-003388-0007

### Summary

**Potency:**

Analyte	Result (%)		
CBD	81.9	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> CBD</li> <li><span style="color: blue;">●</span> CBD-A</li> <li><span style="color: green;">●</span> CBN</li> <li><span style="color: yellow;">●</span> CBG</li> </ul>	CBD-Total 86.0%
CBD-A	4.62		THC-Total <LOQ
CBN	0.414		(Reported in percent of total sample)
CBG	0.204		



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**Customer:** IHC LLC  
 825 NW 16th Ave  
 Portland Oregon 97209  
 United States of America (USA)

**Product identity:** 01LIRSUG200\_Lava

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 23-003388-0007

**Evidence of Cooling:** No

**Temp:** 17.3 °C

**Relinquished by:** Hinton



### Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod)			Units %	Batch: 2306140	Analyze: 3/24/23 1:57:00 AM
Analyte	As Received	Dry weight	LOQ	Notes		<ul style="list-style-type: none"> <li><span style="color: red;">●</span> CBD</li> <li><span style="color: blue;">●</span> CBD-A</li> <li><span style="color: green;">●</span> CBN</li> <li><span style="color: yellow;">●</span> CBG</li> </ul>
CBD <sup>±</sup>	81.9		0.676			
CBD-A <sup>±</sup>	4.62		0.0676			
CBD-Total	86.0		0.735			
CBG	0.204		0.0676			
CBG-A	< LOQ		0.0676			
CBG-Total	0.204		0.126			
CBN	0.414		0.0676			
Δ10-THC-9R	< LOQ		0.0676			
Δ10-THC-9S	< LOQ		0.0676			
Δ10-THC-Total	< LOQ		0.135			
Δ8-THC <sup>±</sup>	< LOQ		0.0676			
Δ9-THC <sup>±</sup>	< LOQ		0.0676			
THC-A <sup>±</sup>	< LOQ		0.0676			
THC-Total	< LOQ		0.127			
<b>Total Cannabinoids</b>	<b>87.1</b>					



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**Abbreviations**

**Limits:** Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

¥ = TNI accredited analyte.

**Units of Measure**

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



3/21/23 11:35 AM

Columbia Laboratories: ECRF

(MICRO ON JOB 4044)

Temp & Consable: Usable / Extract / Finished Product

Chain of Custody, Record

UNLAP ID: 001000008 AND ISO 17025 ID: AF1988

4045

Contact Information		Project Information		Testing	
Company: <u>THE STATE OF OREGON</u>		Project Name: <u>ECF</u>		Micro Polys E	Polymy Composed Resin + Starched Polys
Contact: <u>John Smith</u>		PI Number: <u>100</u>			
Email Address: <u>JOHN.SMITH@STATE.OREGON.GOV</u>		Contract Title: <u>3-2023-0001 (Micro Polys)</u>		Polymy Composed Resin + Starched Polys	Polymy Composed Resin + Starched Polys
City, State, Zip: <u>Portland, Oregon 97230</u>		Samples Collected at Laboratory: <u>Science Park 10</u>			
Email: <u>JOHN.SMITH@STATE.OREGON.GOV</u>		Contract Type: <u>Standard</u>			
Contact Phone: <u>503.254.1794</u>		PI Job Location			
Billing Information		Street Address: <u>311 NW Portland St</u>			
Billing Email: <u>JOHN.SMITH@STATE.OREGON.GOV</u>		City, State, Zip: <u>Portland, Oregon 97230</u>			

  

Sample Name	Matrix	Amount Provided	Reporting Unit	Testing Comments
01 ENDOCRINE/STEROID, TR	Extract / Concentrate	2.5 g	% for measurement	MS
02 ENDOCRINE/STEROID, TV	Extract / Concentrate	2.5 g	% for measurement	MS
03 55M7507	Other	12 g	MS	MS
04 COMPLEX, EC	Extract / Concentrate	20 g	% for measurement	Affixate blank COA name: Mary Lee
05 55M7507, MC	Extract / Concentrate	20 g	% for measurement	Affixate blank COA name: Mary Lee
06 COMPLEX, EC	Extract / Concentrate	20 g	% for measurement	Affixate blank COA name: Mary Lee
07 55M7507, STs	Extract / Concentrate	2.5 g	% for measurement	Affixate blank COA name: Guido Westhouse
08 55M7507, Lvs	Extract / Concentrate	2.5 g	% for measurement	Affixate blank COA name: Guido Westhouse
09 55M7507, 101013, TO	Extract / Concentrate	2.5 g	% for measurement	Affixate blank COA name: Guido Westhouse

  

Submitted By	Date	Time
John Smith	3/21/2023	11:34

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [COLUMBIA LABORATORIES](#) SERVICE AGREEMENT with the S.U.C. by signing "Instruments of" you are agreeing to these terms.

Columbia Laboratories  
12423 NE Whitaker Way  
Portland, OR 97230

A (503) 254-1794 | Fax (503) 254-1450  
info@columbiainstruments.com

Page 1 of 1  
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Received max 3/21 12:28

Relinquished max 3/21 12:44 17.5°

ZAS 03/21 14:07

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Revision: 1 Document ID: 7148  
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2306140

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.103	0.100	%	103	80.0 - 120	Acceptable	
CBDV	2	0.108	0.100	%	108	80.0 - 120	Acceptable	
CBE	2	0.105	0.100	%	105	80.0 - 120	Acceptable	
CBDA	1	0.0935	0.093	%	101	90.0 - 110	Acceptable	
CBGA	1	0.0780	0.077	%	101	80.0 - 120	Acceptable	
CBG	1	0.0951	0.093	%	102	80.0 - 120	Acceptable	
CBD	1	0.0826	0.082	%	100	90.0 - 110	Acceptable	
THCV	2	0.104	0.100	%	104	80.0 - 120	Acceptable	
d8THCV	2	0.101	0.100	%	101	80.0 - 120	Acceptable	
THCVA	2	0.108	0.100	%	108	80.0 - 120	Acceptable	
CBN	1	0.0817	0.081	%	101	80.0 - 120	Acceptable	
exo-THC	2	0.0989	0.100	%	98.9	80.0 - 120	Acceptable	
d9THC	1	0.0944	0.093	%	101	90.0 - 110	Acceptable	
d8THC	1	0.0959	0.094	%	102	90.0 - 110	Acceptable	
9S-d10THC	1	0.0951	0.094	%	101	80.0 - 120	Acceptable	
CBL	2	0.102	0.100	%	102	80.0 - 120	Acceptable	
9R-d10THC	1	0.0944	0.096	%	98.4	80.0 - 120	Acceptable	
CBC	2	0.105	0.100	%	105	80.0 - 120	Acceptable	
THCA	1	0.107	0.108	%	99.0	90.0 - 110	Acceptable	
CBCA	2	0.106	0.100	%	106	80.0 - 120	Acceptable	
CBLA	2	0.100	0.100	%	100	80.0 - 120	Acceptable	
CBT	2	0.100	0.100	%	100	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.077	%	< 0.077	Acceptable	
CBDV	<LOQ	0.077	%	< 0.077	Acceptable	
CBE	<LOQ	0.077	%	< 0.077	Acceptable	
CBDA	<LOQ	0.077	%	< 0.077	Acceptable	
CBGA	<LOQ	0.077	%	< 0.077	Acceptable	
CBG	<LOQ	0.077	%	< 0.077	Acceptable	
CBD	<LOQ	0.077	%	< 0.077	Acceptable	
THCV	<LOQ	0.077	%	< 0.077	Acceptable	
d8THCV	<LOQ	0.077	%	< 0.077	Acceptable	
THCVA	<LOQ	0.077	%	< 0.077	Acceptable	
CBN	<LOQ	0.077	%	< 0.077	Acceptable	
exo-THC	<LOQ	0.077	%	< 0.077	Acceptable	
d9THC	<LOQ	0.077	%	< 0.077	Acceptable	
d8THC	<LOQ	0.077	%	< 0.077	Acceptable	
9S-d10THC	<LOQ	0.077	%	< 0.077	Acceptable	
CBL	<LOQ	0.077	%	< 0.077	Acceptable	
9R-d10THC	<LOQ	0.077	%	< 0.077	Acceptable	
CBC	<LOQ	0.077	%	< 0.077	Acceptable	
THCA	<LOQ	0.077	%	< 0.077	Acceptable	
CBCA	<LOQ	0.077	%	< 0.077	Acceptable	
CBLA	<LOQ	0.077	%	< 0.077	Acceptable	
CBT	<LOQ	0.077	%	< 0.077	Acceptable	

Abbreviations

ND - None Detected at or above MRL  
RPD - Relative Percent Difference  
LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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Revision: 1 Document ID: 7148  
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2306140						
Sample Duplicate		Sample ID: 99-004052-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THCV	0.376	0.378	0.077	%	0.319	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THC	83.2	82.9	0.077	%	0.287	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBT	0.136	0.138	0.077	%	1.89	< 20	Acceptable	

**Abbreviations**

ND - None Detected at or above MRL  
 RPD - Relative Percent Difference  
 LOQ - Limit of Quantitation

**Units of Measure:**

% - Percent



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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.



PharmLabs San Diego Certificate of Analysis

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 ISO/IEC 17025:2017 Certification L17-427-1 | Accreditation #85368



Sample **01SDT224\_CRD\_CRYSTAL RES. CBD**

Sample ID SD230412-042 (72070)	Matrix Concentrate (Inhalable Cannabis Good)
Tested for The Hemp Collect	
Sampled -	Received Apr 12, 2023
Analyses executed CAN+, RES, MIBIG, MTO, PES, HME, FVI	Reported Apr 24, 2023

CAN+ - Cannabinoids Analysis

Analyzed Apr 24, 2023 | Instrument HPLC-VWD | Method SOP-001  
 The expanded Uncertainty of the Cannabinoid analysis is approximately 7.806% at the 95% Confidence Level

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g
Cannabidiol (CBD)	0.039	0.16	ND	ND
Cannabidiolic Acid (CBDA)	0.001	0.16	ND	ND
Cannabigerol Acid (CBGA)	0.001	0.16	ND	ND
Cannabigerol (CBG)	0.001	0.16	0.77	7.73
Cannabidiol (CBD)	0.001	0.16	49.16	491.56
Tetrahydrocannabinol (THCV)	0.001	0.16	ND	ND
Cannabinol (CBN)	0.001	0.16	2.29	22.93
Tetrahydrocannabinol (Δ9-THC)	0.003	0.16	ND	ND
Δ8-tetrahydrocannabinol (Δ8-THC)	0.004	0.16	ND	ND
Cannabicyclol (CBL)	0.002	0.16	0.76	7.64
Cannabichromene (CBC)	0.002	0.16	5.71	57.09
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	ND	ND
Total THC (THCa + Δ9THC)			ND	ND
Total THC + Δ8THC (THCa + Δ9THC + Δ8THC)			ND	ND
Total CBD (CBDA + CBD)			49.16	491.56
Total CBG (CBGA + CBG)			0.77	7.73
Total Cannabinoids			58.70	586.95

HME - Heavy Metals Detection Analysis

Analyzed Apr 14, 2023 | Instrument ICP/MSMS | Method SOP-005

Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g	Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g
Arsenic (As)	0.0002	0.0005	ND	0.2	Cadmium (Cd)	3.0e-05	0.0005	ND	0.2
Mercury (Hg)	1.0e-05	0.0001	ND	0.1	Lead (Pb)	1.0e-05	0.00125	ND	0.5

MIBIG - Microbial Testing Analysis

Analyzed Apr 17, 2023 | Instrument qPCR and/or Plating | Method SOP-007

Analyte	Result CFU/g	Limit	Analyte	Result CFU/g	Limit
Shiga toxin-producing Escherichia Coli	ND	ND per 1 gram	Salmonella spp.	ND	ND per 1 gram
Aspergillus fumigatus	ND	ND per 1 gram	Aspergillus flavus	ND	ND per 1 gram
Aspergillus niger	ND	ND per 1 gram	Aspergillus terreus	ND	ND per 1 gram

MTO - Mycotoxin Testing Analysis

Analyzed Apr 14, 2023 | Instrument LC/MSMS | Method SOP-004

Analyte	LOD ug/kg	LOQ ug/kg	Result ug/kg (ppb)	Limit ug/kg	Analyte	LOD ug/kg	LOQ ug/kg	Result ug/kg (ppb)	Limit ug/kg
Ochratoxin A	5.0	20.0	ND	20	Aflatoxin B1	2.5	5.0	ND	-
Aflatoxin B2	2.5	5.0	ND	-	Aflatoxin G1	2.5	5.0	ND	-
Aflatoxin G2	2.5	5.0	ND	-	Total Aflatoxins	10.0	20.0	ND	20

UI Not Identified  
 ND Not Detected  
 N/A Not Applicable  
 NT Not Reported  
 LOD Limit of Detection  
 LOQ Limit of Quantification  
 <LOQ Detected  
 >ULOL Above upper limit of linearity  
 CFU/g Colony Forming Units per 1 gram  
 TNTC Too Numerous to Count



Scan the QR code to verify authenticity.

Authorized Signature

*Brandon Starr*

Brandon Starr, Lab Manager  
 Mon, 24 Apr 2023 14:10:27 -0700

PharmLabs San Diego | 3421 Hancock St, Second Floor, San Diego, CA 92110 | 619.356.0898 | ISO/IEC 17025:2017 Certification L17-427-1



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PES - Pesticides Screening Analysis

Analyzed Apr 14, 2023 | Instrument LC/MSMS GC/MSMS | Method SOP-003

Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g	Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g
Aldicarb	0.0078	0.02	ND	0.0078	Carbofuran	0.01	0.02	ND	0.01
Dimethoate	0.01	0.02	ND	0.01	Etofenprox	0.02	0.1	ND	0.02
Fenoxycarb	0.01	0.02	ND	0.01	Thiachloprid	0.01	0.02	ND	0.01
Daminozide	0.01	0.03	ND	0.01	Dichlorvos	0.02	0.07	ND	0.02
Imazail	0.02	0.07	ND	0.02	Methiocarb	0.01	0.02	ND	0.01
Spiroxamine	0.01	0.02	ND	0.01	Coumaphos	0.01	0.02	ND	0.01
Fipronil	0.01	0.1	ND	0.01	Paclbutrazol	0.01	0.03	ND	0.01
Chlorpyrifos	0.01	0.04	ND	0.01	Ethoprophos (Prophos)	0.01	0.02	ND	0.01
Baygon (Propoxur)	0.01	0.02	ND	0.01	Chlordane	0.04	0.1	ND	0.04
Chlorfenapyr	0.03	0.1	ND	0.03	Methyl Parathion	0.02	0.1	ND	0.02
Mevinphos	0.05	0.08	ND	0.03	Abamectin	0.03	0.08	ND	0.1
Acephate	0.02	0.05	ND	0.1	Acetamidprid	0.01	0.05	ND	0.1
Azoxystrobin	0.01	0.02	ND	0.1	Bifenazate	0.01	0.05	ND	0.1
Bifenthrin	0.02	0.35	ND	3	Boscalid	0.01	0.03	ND	0.1
Carbaryl	0.01	0.02	ND	0.5	Chlorantraniliprole	0.01	0.04	ND	10
Clofentezine	0.01	0.03	ND	0.1	Diazinon	0.01	0.02	ND	0.1
Dimethomorph	0.02	0.06	ND	2	Etoxazole	0.01	0.05	ND	0.1
Fenpyroximate	0.02	0.1	ND	0.1	Fonicamid	0.01	0.02	ND	0.1
Fludioxonil	0.01	0.05	ND	0.1	Hexythiazox	0.01	0.03	ND	0.1
Imidacloprid	0.01	0.05	ND	5	Kresoxim-methyl	0.01	0.03	ND	0.1
Malathion	0.01	0.05	ND	0.5	Metalaxyl	0.01	0.02	ND	2
Methomyl	0.02	0.05	ND	1	Myclobutanil	0.02	0.07	ND	0.1
Naled	0.01	0.02	ND	0.1	Oxamyl	0.01	0.02	ND	0.5
Permethrin	0.01	0.02	ND	0.5	Phosmet	0.01	0.02	ND	0.1
Piperonyl Butoxide	0.02	0.06	ND	3	Propiconazole	0.03	0.08	ND	0.1
Prallethrin	0.02	0.05	ND	0.1	Pyrethrin	0.05	0.41	ND	0.5
Pyridaben	0.02	0.07	ND	0.1	Spinosad A	0.01	0.05	ND	0.1
Spinosad D	0.01	0.05	ND	0.1	Spiromesifen	0.02	0.06	ND	0.1
Spirotetramat	0.01	0.02	ND	0.1	Tebuconazole	0.01	0.02	ND	0.1
Thiamethoxam	0.01	0.02	ND	5	Trifloxystrobin	0.01	0.02	ND	0.1
Acequinocyl	0.02	0.09	ND	0.1	Captan	0.01	0.02	ND	0.7
Cypermethrin	0.02	0.1	ND	1	Cyfluthrin	0.04	0.1	ND	2
Fenhexamid	0.02	0.07	ND	0.1	Spinetoram J.L	0.02	0.07	ND	0.1
Pentachloronitrobenzene	0.01	0.1	ND	0.1					

RES - Residual Solvents Testing Analysis

Analyzed Apr 20, 2023 | Instrument GC/FID with Headspace Analyzer | Method SOP-006

Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g	Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g
Propane (Prop)	0.4	40.0	ND	40.0	Butane (But)	0.4	40.0	ND	40.0
Methanol (Metha)	0.4	40.0	ND	40.0	Ethylene Oxide (EthOx)	0.4	0.8	ND	0.8
Pentane (Pen)	0.4	40.0	ND	40.0	Ethanol (Ethan)	0.4	40.0	ND	40.0
Ethyl Ether (EthEt)	0.4	40.0	ND	40.0	Acetone (Acet)	0.4	40.0	<LOQ	40.0
Isopropanol (2-Pro)	0.4	40.0	ND	40.0	Acetonitrile (Acetonit)	0.4	40.0	ND	40.0
Methylene Chloride (MetCh)	0.4	0.8	ND	0.8	Hexane (Hex)	0.4	40.0	ND	40.0
Ethyl Acetate (EthAc)	0.4	40.0	ND	40.0	Chloroform (Clo)	0.4	0.8	ND	0.8
Benzene (Ben)	0.4	0.8	ND	0.8	1,2-Dichloroethane (12-Dich)	0.4	0.8	ND	0.8
Heptane (Hep)	0.4	40.0	ND	40.0	Trichloroethylene (TriClIEth)	0.4	0.8	ND	0.8
Toluene (Toluene)	0.4	40.0	ND	40.0	Xylenes (Xyl)	0.4	40.0	ND	40.0

FVI - Filth & Foreign Material Inspection Analysis

Analyzed Apr 13, 2023 | Instrument Microscope | Method SOP-010

Analyte / Limit	Result	Analyte / Limit	Result
> 1/4 of the total sample area covered by sand, soil, cinders, or dirt	ND	> 1/4 of the total sample area covered by mold	ND
> 1 insect fragment, 1 hair, or 1 count mammalian excreta per 3g	ND	> 1/4 of the total sample area covered by an imbedded foreign material	ND

UI Not Identified  
 ND Not Detected  
 N/A Not Applicable  
 NT Not Reported  
 LOD Limit of Detection  
 LOQ Limit of Quantification  
 <LOQ Detected  
 >ULOL Above upper limit of linearity  
 CFU/g Colony Forming Units per 1 gram  
 TNTC Too Numerous to Count



Scan the QR code to verify authenticity.

Authorized Signature

*Brandon Starr*

Brandon Starr, Lab Manager  
 Mon, 24 Apr 2023 14:10:27 -0700

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