



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

**Report Number:** 21-013253/D005.R001  
**Report Date:** 11/23/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 11/10/2114:36



This is an amended version of report# 21-013253/D005.R000.  
 Reason: Sample re-extracted for potency.

**Customer:** Magic City Organics  
**Product identity:** #179, 200 Pet  
**Client/Metric ID:** .  
**Laboratory ID:** 21-013253-0002

### Summary

**Potency:**

Analyte	Result	Limits	Units	Status	
CBC	0.0205		%		CBD-Totalper28.5g 211 mg/28.5g
CBD	0.741		%		
CBDV†	0.00418		%		THC-Totalper28.5g 9.01 mg/28.5g
CBE†	0.00495		%		
CBG†	0.00581		%		(Reported in milligrams per serving)
CBT†	0.0147		%		
Δ9-THC	0.0316		%		
Analyte per 28.5g	Result	Limits	Units	Status	
CBCper28.5g	5.84		mg/28.5g		
CBDper28.5g	211		mg/28.5g		
CBDVper28.5g†	1.19		mg/28.5g		
CBEper28.5g†	1.41		mg/28.5g		
CBGper28.5g†	1.66		mg/28.5g		
CBTper28.5g†	4.19		mg/28.5g		
Δ9-THCper28.5g	9.01		mg/28.5g		



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**Customer:** Healthy Roots  
**Product identity:** #179, 200 Pet  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 21-013253-0002  
**Evidence of Cooling:** No  
**Temp:** 20.7 °C  
**Relinquished by:** Client  
**Serving Size #1:** 28.5 g

### Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units	%Batch: 2110535	Analyze: 11/19/21 11:05:00 P	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0205		%	0.0032	
CBC-A†	<LOQ		%	0.0032	
CBC-Total†	0.0205		%	0.0060	
CBD	0.741		%	0.0032	
CBD-A	<LOQ		%	0.0032	
CBD-Total	0.741		%	0.0060	
CBDV†	0.00418		%	0.0032	
CBDV-A†	<LOQ		%	0.0032	
CBDV-Total†	<LOQ		%	0.0059	
CBE†	0.00495		%	0.0032	
CBG†	0.00581		%	0.0032	
CBG-A†	<LOQ		%	0.0032	
CBG-Total	<LOQ		%	0.0059	
CBL†	<LOQ		%	0.0032	
CBL-A†	<LOQ		%	0.0032	
CBL-Total†	<LOQ		%	0.0060	
CBN	<LOQ		%	0.0032	
CBT†	0.0147		%	0.0032	
Δ8-THCV	<LOQ		%	0.0032	
Δ8-THC†	<LOQ		%	0.0032	
Δ9-THC	0.0316		%	0.0032	
THC-A	<LOQ		%	0.0032	
THC-Total	0.0316		%	0.0032	
THCV†	<LOQ		%	0.0060	
THCV-A†	<LOQ		%	0.0032	
THCV-Total†	<LOQ		%	0.0032	
<b>TotalCannabinoids†</b>	<b>0.823</b>		%	0.0059	

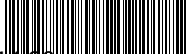
Potency per 28.5g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2110535	Analyze: 11/19/21 11:05:00 P	
Analyte	Result	Limits	Units	LOQ	Notes
CBCper28.5g†	5.84		mg/28.5g	0.906	
CBC-Aper28.5g†	<LOQ		mg/28.5g	0.906	
CBC-Totalper28.5g†	5.84		mg/28.5g	1.70	

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.  
 Testing in accordance with: OAR 333-007-0430



Portland, OR 97230  
 Report Date: 11/23/2021  
 503-254-1794  
 ORELAP#: OR100028

12423 NE Whitaker Way Report Number: 21-013253/D005.R001

Purchase Order:   
 Received: 11/10/21 14:36

Potency per 28.5g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2110535 Analyze: 11/19/21 11:05:00 P

Analyte	Result	Limits	Units	LOQ	Notes
CBDper28.5g	211		mg/28.5g	0.906	
CBD-Aper28.5g	<LOQ		mg/28.5g	0.906	
CBD-Totalper28.5g	211		mg/28.5g	1.70	
CBDVper28.5g†	1.19		mg/28.5g	0.906	
CBDV-Aper28.5g†	<LOQ		mg/28.5g	0.906	
CBDV-Totalper28.5g†	<LOQ		mg/28.5g	1.69	
CBEper28.5g†	1.41		mg/28.5g	0.906	
CBGper28.5g†	1.66		mg/28.5g	0.906	
CBG-Aper28.5g†	<LOQ		mg/28.5g	0.906	
CBG-Totalper28.5g†	<LOQ		mg/28.5g	1.69	
CBLper28.5g†	<LOQ		mg/28.5g	0.906	
CBL-Aper28.5g†	<LOQ		mg/28.5g	0.906	
CBL-Totalper28.5g†	<LOQ		mg/28.5g	1.70	
CBNper28.5g	<LOQ		mg/28.5g	0.906	
CBTper28.5g†	4.19		mg/28.5g	0.906	
Δ8-THCVper28.5g†	<LOQ		mg/28.5g	0.906	
Δ8-THCper28.5g†	<LOQ		mg/28.5g	0.906	
Δ9-THCper28.5g	9.01		mg/28.5g	0.906	
exo-THCper28.5g†	<LOQ		mg/28.5g	0.906	
THC-Aper28.5g	<LOQ		mg/28.5g	0.906	
THC-Totalper28.5g	9.01		mg/28.5g	1.70	
THCVper28.5g†	<LOQ		mg/28.5g	0.906	
THCV-Aper28.5g†	<LOQ		mg/28.5g	0.906	
THCV-Totalper28.5g†	<LOQ		mg/28.5g	1.70	
TotalCannabinoidsper28.5g	234		mg/28.5g		

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† = Analyte not NELAP accredited.

**Units of Measure**

g = Gram

mg/28.5g = Milligram per 28.5g

% = Percentage of sample

% wt =  $\mu\text{g/g}$  divided by 10,000

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**Purchase Order:**

**Received:**11/10/2114:36

These test results are representative of the individual sample selected and submitted by the client.

**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.

Approved Signatory



Derrick Tanner  
General Manager



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Hemp / Cannabis Usable / Extract / Finished Products  
 Chain of Custody Record

Revision: 4.00 Control#: CF023 Rev 02/24/2021 Eff: 03/04/2021  
 ORELAP ID: OR100028

Company: <b>CHAIN OF CUSTODY</b> Company: Healthy Roots Contact: Liz Merritt Address: 14325 NE Airport Way, #113 Portland, OR 97230 Email: Healthyrootshemp@gmail.com Phone: 503-496-2329 License: AG-L 1052211FP				<b>Analysis Requested</b>										PO Number: Project Number: Project Name: Custom Reporting: Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: Turnaround time: <input checked="" type="checkbox"/> 5 Business Day Standard Turnaround <input type="checkbox"/> 3 Business Day Rush Turnaround* <input checked="" type="checkbox"/> 2 Business Day Rush Turnaround* *Check for availability			
Billing (if different): Compliance@healthyrootshemp.com				Pesticides - OR 59 compounds Pesticide Multi-Residue - 379 compounds Potency Residual Solvents Moisture & Water Activity Terpenes Micro: Yeast and Mold Micro: E. Coli and Total Coliform Heavy Metals Mycotoxins Other: Aerobic Plate Count, Salmonella, Staphylococcus, Pseudomonas										Sampled by: Sample Type † Weight (Units) Comments/Metric ID			
Lab ID	Client Sample Identification	Date	Time														
	#7, BB Base	11/10												T	200g		please do 2 day Rush turnaround on this item only!
	#178, 200 Root Butter	11/10												T	50g		
	#179, 200 Pet	11/10												T	28.5g		5 day turnaround for rest of tests!
	#180, 500 Pet	11/10												T	28.5g		Report in mg/gr and % (percentage)
	#181, 800 Pet	11/10												T	28.5g		Thank you! Erica
Relinquished By:		Date	Time	Received By:		Date	Time	Lab Use Only: <input type="checkbox"/> Shipped Via: _____ or <input checked="" type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No - Temp (°C): 20.7°C Sample in good condition: <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No <input type="checkbox"/> Cash   <input type="checkbox"/> Check   <input type="checkbox"/> CC   <input type="checkbox"/> Net: Prelog storage: _____									
Merritt		11/10	2:15p	JS		11/10/21	14:36										

† - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)  
 Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms  
 12423 NE Whitaker Way  
 Portland, OR 97230  
 P: (503) 254-1794 | Fax: (503) 254-1452  
 info@columbiolaboratories.com  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 www.columbiolaboratories.com

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Revision #: 0.00 Control : CFL-D06  
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID:2110535

Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.0100	0.01	%	100	85.0 - 115	Acceptable	
CBDV	0.0110	0.01	%	110	85.0 - 115	Acceptable	
CBE	0.00987	0.01	%	98.7	85.0 - 115	Acceptable	
CBDA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBGA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBG	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBD	0.00985	0.01	%	98.5	85.0 - 115	Acceptable	
THCV	0.0101	0.01	%	101	85.0 - 115	Acceptable	
d8THCV	0.00950	0.01	%	95.0	85.0 - 115	Acceptable	
THCVA	0.00985	0.01	%	98.5	85.0 - 115	Acceptable	
CBN	0.00993	0.01	%	99.3	85.0 - 115	Acceptable	
exo-THC	0.00988	0.01	%	98.8	85.0 - 115	Acceptable	
d9THC	0.00961	0.01	%	96.1	85.0 - 115	Acceptable	
d8THC	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBL	0.00981	0.01	%	98.1	85.0 - 115	Acceptable	
CBC	0.0105	0.01	%	105	85.0 - 115	Acceptable	
THCA	0.00984	0.01	%	98.4	85.0 - 115	Acceptable	
CRCA	0.0104	0.01	%	104	85.0 - 115	Acceptable	
CBLA	0.00986	0.01	%	98.6	85.0 - 115	Acceptable	
CBT	0.0113	0.01	%	113	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.003	%	<0.003	Acceptable	
CBDV	<LOQ	0.003	%	<0.003	Acceptable	
CBE	<LOQ	0.003	%	<0.003	Acceptable	
CBDA	<LOQ	0.003	%	<0.003	Acceptable	
CBGA	<LOQ	0.003	%	<0.003	Acceptable	
CBG	<LOQ	0.003	%	<0.003	Acceptable	
CBD	<LOQ	0.003	%	<0.003	Acceptable	
THCV	<LOQ	0.003	%	<0.003	Acceptable	
d8THCV	<LOQ	0.003	%	<0.003	Acceptable	
THCVA	<LOQ	0.003	%	<0.003	Acceptable	
CBN	<LOQ	0.003	%	<0.003	Acceptable	
exo-THC	<LOQ	0.003	%	<0.003	Acceptable	
d9THC	<LOQ	0.003	%	<0.003	Acceptable	
d8THC	<LOQ	0.003	%	<0.003	Acceptable	
CBL	<LOQ	0.003	%	<0.003	Acceptable	
CBC	<LOQ	0.003	%	<0.003	Acceptable	
THCA	<LOQ	0.003	%	<0.003	Acceptable	
CRCA	<LOQ	0.003	%	<0.003	Acceptable	
CBLA	<LOQ	0.003	%	<0.003	Acceptable	
CBT	<LOQ	0.003	%	<0.003	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 #: 0.00 Control : CFL-D06  
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2110535								
Sample Duplicate								
Sample ID: 21-010754-0004								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBDV	0.00675	0.00689	0.003	%	2.04	<20	Acceptable	
CBE	0.00815	0.00830	0.003	%	1.82	<20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBDG	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBDH	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBDI	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBDJ	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBDK	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBDL	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBDM	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBDN	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBDP	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBDQ	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBDR	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
dBTHCV	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC1	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC2	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC3	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC4	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC5	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC6	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC7	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC8	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC9	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC10	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC11	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC12	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC13	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC14	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC15	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC16	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC17	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC18	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC19	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC20	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC21	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC22	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC23	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC24	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC25	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC26	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC27	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC28	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC29	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC30	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC31	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC32	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC33	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC34	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC35	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC36	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC37	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC38	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC39	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC40	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC41	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC42	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC43	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC44	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC45	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC46	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC47	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC48	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC49	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC50	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC51	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC52	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC53	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC54	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC55	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC56	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC57	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC58	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC59	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC60	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC61	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC62	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC63	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC64	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC65	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC66	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC67	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC68	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC69	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC70	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC71	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC72	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC73	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC74	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC75	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC76	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC77	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC78	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC79	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC80	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC81	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC82	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC83	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC84	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC85	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC86	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC87	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC88	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC89	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC90	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC91	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC92	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC93	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC94	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC95	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC96	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC97	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC98	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC99	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THC100	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	

Abbreviations

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- NA - Calculation Not Applicable given non-numerical results

Units of Measure:

% - Percent

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.  
Testing in accordance with: OAR 333-007-0430



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

**Report Number:** 21-013253/D005.R001  
**Report Date:** 11/23/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 11/10/2114:36



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.