



Report Number:	22-007977/D002.R000
Report Date:	07/19/2022
ORELAP#:	OR100028
Purchase Order:	
Received:	07/07/22 15:11

Customer:	Healthy Roots
Product identity:	#219, 1000 Horse
Client/Metrc ID:	
Laboratory ID:	22-007977-0005

Summary

Analyte	Result	Limits	Units	Status	CBD-Total per Serving Size	1130 mg/28.5g
CBC	0.158		%			
CBD	3.96		%			
CBD-A	0.0106		%		THC-Total per Serving Size	36.5 mg/28.5g
CBDV	0.0242		%		(Reported in milligrams	
CBG	0.0760		%			per serving)
CBN	0.00428		%			
CBT	0.0573		%			
∆8-THC	0.0257		%			
∆9-THC	0.128		%			
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g	45.0		mg/28.5g			
CBD per 28.5g	1130		mg/28.5g			
CBD-A per 28.5g	3.02		mg/28.5g			
CBDV per 28.5g	6.90		mg/28.5g			
CBG per 28.5g	21.7		mg/28.5g			
CBN per 28.5g	1.22		mg/28.5g			
CBT per 28.5g	16.3		mg/28.5g			
∆8-THC per 28.5g	7.32		mg/28.5g			
∆9-THC per 28.5g	36.5		mg/28.5g			

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Testing in accordance with: OAR 333-007-0430





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Customer:	Healthy Roots
Product identity: Client/Metrc ID:	#219, 1000 Horse
Sample Date:	
Laboratory ID:	22-007977-0005
Evidence of Cooling:	No
Temp:	24.4 °C
Relinquished by:	Client
Serving Size #1:	28.5 g

Sample Results

Potency	Method: J AOAC 2015 V	/98-6 (mod)	Units %	Batch: 2206049	Analyze: 7/18/22 1:32:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.158		%	0.00315	
CBC-A	< LOQ		%	0.00315	
CBC-Total	0.158		%	0.00591	
CBD⊥	3.96		%	0.0315	
CBD-A⊥	0.0106		%	0.00315	
CBD-Total	3.97		%	0.0342	
CBDV	0.0242		%	0.00315	
CBDV-A	< LOQ		%	0.00315	
CBDV-Total	0.0242		%	0.00588	
CBE	< LOQ		%	0.00315	
CBG	0.0760		%	0.00315	
CBG-A	< LOQ		%	0.00315	
CBG-Total	0.0760		%	0.00588	
CBL	< LOQ		%	0.00315	
CBL-A	< LOQ		%	0.00315	
CBL-Total	< LOQ		%	0.00591	
CBN	0.00428		%	0.00315	
CBT	0.0573		%	0.00315	
$\Delta 8$ -THCV	< LOQ		%	0.00315	
$\Delta 8\text{-THC}^{\perp}$	0.0257		%	0.00315	
∆9-THC⊥	0.128		%	0.00315	
exo-THC	< LOQ		%	0.00315	
THC-A⊥	< LOQ		%	0.00315	
THC-Total	0.128		%	0.00591	
THCV	< LOQ		%	0.00315	
THCV-A	< LOQ		%	0.00315	
THCV-Total	< LOQ		%	0.00588	
Total Cannabinoids	4.44		%		
Potency per 28.5g	Method: J AOAC 2015 V	/98-6 (mod)	Units mg/se	e Batch: 2206049	Analyze: 7/18/22 1:32:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g	45.0		mg/28.5g	0.897	

Page 2 of 9 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
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Potency per 28.5g	Method: J AOAC 2015 V98-6 (mod)		Units mg/se Bate	ch: 2206049	Analyze: 7/18/22 1:32:00 PM		
Analyte	Result	Limits	Units	LOQ	Notes		
CBC-A per 28.5g	< LOQ		mg/28.5g	0.897			
CBC-Total per 28.5g	45.0		mg/28.5g	1.68			
CBD per 28.5g	1130		mg/28.5g	8.97			
CBD-A per 28.5g	3.02		mg/28.5g	0.897			
CBD-Total per 28.5g	1130		mg/28.5g	9.76			
CBDV per 28.5g	6.90		mg/28.5g	0.897			
CBDV-A per 28.5g	< LOQ		mg/28.5g	0.897			
CBDV-Total per 28.5g	6.90		mg/28.5g	1.67			
CBE per 28.5g	< LOQ		mg/28.5g	0.897			
CBG per 28.5g	21.7		mg/28.5g	0.897			
CBG-A per 28.5g	< LOQ		mg/28.5g	0.897			
CBG-Total per 28.5g	21.7		mg/28.5g	1.67			
CBL per 28.5g	< LOQ		mg/28.5g	0.897			
CBL-A per 28.5g	< LOQ		mg/28.5g	0.897			
CBL-Total per 28.5g	< LOQ		mg/28.5g	1.88			
CBN per 28.5g	1.22		mg/28.5g	0.897			
CBT per 28.5g	16.3		mg/28.5g	0.897			
$\Delta 8$ -THCV per 28.5g	< LOQ		mg/28.5g	0.897			
∆8-THC per 28.5g	7.32		mg/28.5g	0.897			
∆9-THC per 28.5g	36.5		mg/28.5g	0.897			
exo-THC per 28.5g	< LOQ		mg/28.5g	0.897			
THC-A per 28.5g	< LOQ		mg/28.5g	0.897			
THC-Total per 28.5g	36.5		mg/28.5g	1.68			
THCV per 28.5g	< LOQ		mg/28.5g	0.897			
THCV-A per 28.5g	< LOQ		mg/28.5g	0.897			
THCV-Total per 28.5g	< LOQ		mg/28.5g	1.87			
Total Cannabinoids per 28.	5g 1270		mg/28.5g				

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 07/19/2022

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 7/07/22 15:11

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.

* = TNI accredited analyte.

Units of Measure

g = g mg/28.5g = Milligram per 28.5g % = Percentage of sample % wt = μg/g divided by 10,000

Approved Signatory

Derrick Tanner General Manager

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Columbia LABORATORIES



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ORELAP#:	OR100028
Purchase Order:	

07/07/22 15:11

Received:

							A	nalys	is Req	ueste	d					O Number:					
B	CHAIN OF CUSTODY 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 Billing (if different)		s - OR 59 compounds	59	59	59	20	59	esticide Multi-Residue – 379 compounds		esidual Solvents	Vioisture & Water Activity		Yeast and Vold	£ Coli and Total Coliform	and Total	itals 15	0	Project Number Project Name: Custom Reporting: Report to State METRC or Other: Turnaround Lime: S Business Day Standard Turnaround 3 Business Day Rush Turnaround*		
ai ID				esticide	sticide	Potency	idual	isture	erpenes		ro: £ (Heavy Metals	Viycotoxins	Her	Sample	Weight					
L	Client Sample Identification FSO ED 070722	Date 07/07	Time	Pe	Pee	bot	Res	Mo	Ter	Micro.	Micro:	Неа	Myc	Othe	Type t	(Units)	Comments/Metrc ID				
-	100 20 010100	04/04				V									C	19					
-	FSO CD2 070722					./			-		<u>.</u>					J					
						~									C	19					
	#216, D8/Arnica Lotion				67	1	-		-	-					-						
	Lotion					-									T	128g					
				1										-		110	24 D 44				
	#218, Facial Oil					~	-								Т		Report in				
						-										169	a mg/gr				
	#219,1000 Horse			1		V	1-			-	-			+			Report in mg/gr and % (percentage				
_	Relinquished By:	Date	Time			Re	ceived	By:	1		Di	ate	Т	ime	T	28.59	Lab Use Only:				
	Melton	07/07/2	22:0	20			Ac	0			7-				□ Shipp	ed Via:	or Client drop				
		10.160				/					(-	• [IS	57]	Evidence Sample C Cash	e of cooling: 🔲 ' n good conditic	res ØNo - Temp (°C): <u>24.4</u> m: ∰Yes □ No CC □ Net:				

info@columbialaboratories.com

Page 5 of 9 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
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Revision: 1 Document ID: 7148 Legacy ID: Worksheet Validated 04/20/2021

	Laboratory Quality Control Results							
JAOAC2015 V986 Batch ID: 2206049								
Laboratory Control S								
Analyte	LCS	Result	Spike	Units	%Rec	Limits	Evaluation	Notes
CBDVA	1	0.0300	0.033	%	90.0	80.0 - 120	Acceptable	
CBDV	1	0.0309	0.033	%	92.7	80.0 - 120	Acceptable	
CÆ	1	0.0328	0.033	%	98.6	80.0 - 120	Acceptable	
CBDA	1	0.0302	0.032	%	93.1	90.0 - 110	Acceptable	
CBGA	1	0.0291	0.032	%	90.6	80.0 - 120	Acceptable	
CBG	1	0.0302	0.034	%	89.7	80.0 - 120	Acceptable	
CBD	1	0.0334	0.036	%	91.8	90.0 - 110	Acceptable	
THCV	1	0.0301	0.033	%	90.3	80.0 - 120	Acceptable	
d8THCV	1	0.0313	0.033	%	94.1	80.0 - 120	Acceptable	
THCVA	1	0.0298	0.033	%	89.5	80.0 - 120	Acceptable	
CBN	1	0.0327	0.034	%	96.0	90.0 - 110	Acceptable	
exo-THC	1	0.0311	0.033	%	93.4	80.0 - 120	Acceptable	
d9THC	1	0.0314	0.034	%	93.3	90.0 - 110	Acceptable	
d8THC	1	0.0311	0.032	%	96.4	90.0 - 110	Acceptable	
CBL	1	0.0296	0.033	%	88.9	80.0 - 120	Acceptable	
CBC	1	0.0355	0.033	%	107	80.0 - 120	Acceptable	
THCA	1	0.0292	0.031	%	94.0	90.0 - 110	Acceptable	
CECA	1	0.0326	0.033	%	98.0	80.0 - 120	Acceptable	
CBLA	1	0.0326	0.033	%	97.9	80.0 - 120	Acceptable	
CBL	1	0.0360	0.033	%	108	80.0 - 120	Acceptable	

Method Bank						
Analyte	Result	LOQ	Uhits	Limits	Evaluation	Notes
CBDVA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBDV	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CÆ	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBDA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBGA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBG	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBD	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
THCV	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
d8THCV	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
THCVA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBN	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
exo-THC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
d9THC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
d8THC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBL	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
THCA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBCA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBLA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBT	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	

Abbreviations

s 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

			Lai	poratory	Quality Con				
JAOAC2015 V986					Ba	tch ID: 2206049			
Sample Duplicate			Sample ID: 22-0079770003						
Analyte	Result	Org. Reult	LOQ	Units	RFD	Limits	Evaluation	Notes	
CBDVA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBDV	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CEE	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBDA	0.00574	0.00529	0.003	%	8.21	< 20	Acceptable		
CBGA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBG	0.03119	0.00371	0.003	%	157	< 20	Outlier		
CBD	0.724	0.633	0.003	%	13.4	< 20	Acceptable		
THCV	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
d8THCV	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
THCVA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBN	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
exo-THC	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
d9THC	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
d8THC	1.55	1.36	0.003	%	13.0	< 20	Acceptable		
CBL	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBC	0.0305	0.0280	0.003	%	8.61	< 20	Acceptable		
THCA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBCA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBLA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBI	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		

Abbreviations

ND - None Detected at or above MRL RPD - Relative Percent Difference

LOQ - Limit of Quantitation

Units of Measure:

Page 7 of 9 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





Report Number:	22-007977/D002.R000
Report Date:	07/19/2022
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22-007977/D002.R000 **Report Number: Report Date:** 07/19/2022 ORELAP#: OR100028 **Purchase Order:** 07/07/22 15:11 **Received:**

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	Quantitaion level raised due to matrix interference.
В	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.

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