



Report Number: 21-014852/D005.R000

Report Date: 12/24/2021 ORELAP#: OR100028

Purchase Order:

Received: 12/20/21 14:47

Customer: Healthy Roots Product identity: #187, 1000 Mint

Client/Metrc ID:

Laboratory ID: 21-014852-0002

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g	1080 mg/28.5g
CBC	0.0739		%			
CBD	3.77		%		<u> </u>	45.0 /00.5
CBD-A	0.00415		%		THC-Total per 28.5g	15.6 mg/28.5g
CBDV [†]	0.0163		%		(Reported in milligr	ams per serving)
CBG [†]	0.0278		%		(Reported in minigr	airis pei serving)
CBT [†]	0.0249		%			
Δ9-THC	0.0547		%			
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g [†]	21.1		mg/28.5g			
CBD per 28.5g	1070		mg/28.5g			
CBD-A per 28.5g	1.18		mg/28.5g			
CBDV per 28.5g [†]	4.65		mg/28.5g			
CBG per 28.5g [†]	7.92		mg/28.5g			
CBT per 28.5g [†]	7.10		mg/28.5g			
∆9-THC per 28.5g	15.6		mg/28.5g			





Report Number: 21-014852/D005.R000

Report Date: 12/24/2021 **ORELAP#:** OR100028

Purchase Order:

Received: 12/20/21 14:47

Customer: Healthy Roots

Product identity: #187, 1000 Mint

Client/Metrc ID:

Sample Date:

Laboratory ID: 21-014852-0002

Evidence of Cooling: No
Temp: 17.3 °C
Relinquished by: Client
Serving Size #1: 28.5 g

Sample Results

Potency	Method J AOAC 201	5 V98-6 (mod)	Units %	Batch: 2111410	Analyze: 12/21/21 8:14:00 PM
Analyte	Result L	imits	Units	LOQ	Notes
CBC	0.0739		%	0.0033	
CBC-A [†]	< LOQ		%	0.0033	
CBC-Total†	0.0739		%	0.0062	
CBD	3.77		%	0.0330	
CBD-A	0.00415		%	0.0033	
CBD-Total	3.77		%	0.0359	
CBDV [†]	0.0163		%	0.0033	
CBDV-A [†]	< LOQ		%	0.0033	
CBDV-Total [†]	0.0163		%	0.0062	
CBE [†]	< LOQ		%	0.0033	
CBG [†]	0.0278		%	0.0033	
CBG-A [†]	< LOQ		%	0.0033	
CBG-Total	0.0278		%	0.0062	
CBL [†]	< LOQ		%	0.0033	
CBL-A [†]	< LOQ		%	0.0033	
CBL-Total [†]	< LOQ		%	0.0062	
CBN	< LOQ		%	0.0033	
CBT [†]	0.0249		%	0.0033	
$\Delta 8$ -THCV	< LOQ		%	0.0033	
$\Delta 8\text{-THC}^{\dagger}$	< LOQ		%	0.0033	
Δ9-THC	0.0547		%	0.0033	
THC-A	< LOQ		%	0.0033	
THC-Total	0.0547		%	0.0062	
THCV [†]	< LOQ		%	0.0033	
THCV-A [†]	< LOQ		%	0.0033	
THCV-Total [†]	< LOQ		%	0.0062	
Total Cannabinoids [↑]	3.97		%		

Potency per 28.5g	Method J AOA	C 2015 V98-6 (m	nod) Units mg/se Ba t	tch: 2111410	Analyze: 12/21/21 8:14:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g [†]	21.1		mg/28.5g	0.941	
CBC-A per 28.5g [†]	< LOQ		mg/28.5g	0.941	
CBC-Total per 28.5g [†]	21.1		mg/28.5g	1.77	

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Report Number: 21-014852/D005.R000

Report Date: 12/24/2021 ORELAP#: OR100028

Purchase Order:

12/20/21 14:47 Received:

Potency per 28.5g	Method J AOA	C 2015 V98-6 (mo	d) Units mg/se Ba	tch: 2111410	Analyze: 12/21/21 8:14:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBD per 28.5g	1070		mg/28.5g	9.41	
CBD-A per 28.5g	1.18		mg/28.5g	0.941	
CBD-Total per 28.5g	1080		mg/28.5g	10.2	
CBDV per 28.5g [†]	4.65		mg/28.5g	0.941	
CBDV-A per 28.5g [†]	< LOQ		mg/28.5g	0.941	
CBDV-Total per 28.5g [†]	4.65		mg/28.5g	1.76	
CBE per 28.5g [†]	< LOQ		mg/28.5g	0.941	
CBG per 28.5g [†]	7.92		mg/28.5g	0.941	
CBG-A per 28.5g [†]	< LOQ		mg/28.5g	0.941	
CBG-Total per 28.5g [†]	7.92		mg/28.5g	1.76	
CBL per 28.5g [†]	< LOQ		mg/28.5g	0.941	
CBL-A per 28.5g [†]	< LOQ		mg/28.5g	0.941	
CBL-Total per 28.5g [†]	< LOQ		mg/28.5g	1.77	
CBN per 28.5g	< LOQ		mg/28.5g	0.941	
CBT per 28.5g [†]	7.10		mg/28.5g	0.941	
$\Delta 8$ -THCV per 28.5g †	< LOQ		mg/28.5g	0.941	
$\Delta 8$ -THC per 28.5g †	< LOQ		mg/28.5g	0.941	
Δ9-THC per 28.5g	15.6		mg/28.5g	0.941	
exo-THC per 28.5g [†]	< LOQ		mg/28.5g	0.941	
THC-A per 28.5g	< LOQ		mg/28.5g	0.941	
THC-Total per 28.5g	15.6		mg/28.5g	1.77	
THCV per 28.5g [†]	< LOQ		mg/28.5g	0.941	
THCV-A per 28.5g [†]	< LOQ		mg/28.5g	0.941	
THCV-Total per 28.5g [†]	< LOQ		mg/28.5g	1.77	
Total Cannabinoids per 28.5g	1130		mg/28.5g		





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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.

† = Analyte not NELAP accredited.

Units of Measure

g = Gram mg/28.5g = Milligram per 28.5g% = Percentage of sample % wt = $\mu g/g$ divided by 10,000

Approved Signatory

Derrick Tanner General Manager





Report Number: 21-014852/D005.R000

Report Date: 12/24/2021

ORELAP#: **Purchase Order:**

Received:

12/20/21 14:47

OR100028



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**

								, u 1D.	CHIO	3028							
			8			,	Analys	sis Red	quest	ed		1117		Г			
CHAIN OF Company: Healthy Root Contact: Liz Merritt Address: 14325 NE Airp Portland, OR: Email: Healthyrootshem Phone: 503-496-2329 License: AG-L 1052211F Billing (if different): Please Add: Compliance Q Healthy Contact Compliance Q Healthyrootshem Phone: 503-496-2329 License: AG-L 1052211F	s ort Way, ‡ 97230 np@gmail. P	com	des – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	<i>b</i>	Residual Solvents	Moisture & Water Activity	55	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	letals	dins	other Salmonella Stachulococcus (Seudomocas	Custon Report Turnarc	roject Name: n Reporting: to State - \ M ound time: \ 5 \ 3 \ 2	ETRC or Business Da Business Da	ay Standard Turnaround ay Rush Turnaround* ay Rush Turnaround*
ID Client Sample Identification	Date	Time	Pestici	Pestici	Potency	Residua	Moistu	Terpenes	Micro:	Micro: /	Heavy Metals	Mycotoxins	Other:	Sample Type †	Weight (Units)		Comments/Metrc ID
#186, 1000 Natural #187, 1000 Mint #188, 1000 Berry #189, Capsule	12/20				\ \ \ \									TTTT	28.5g 28.5g 28.5g 1 a	Kealthy Roots	Report in mg/gr and % (percentage)
Relinquished By:	Date	Time			Re	ceived E	By:			Da	te	Ti	me	- 1			
Mernt	12/20	2!30p				DS				12/20	,		47	Evidence Sample i Cash	n good conditio	es PNo - n. Yes CC Net:	
† Samples submitted to Columbia Laborator 12423 NE Whitaker Way Portland, OR 97230	- Sample Ty ies with testing	ype Codes: \ g requirements	/egeta	tion (\) ; Iso	p: (50	ices in a 03) 254	ccordan -1794	ce with Fax: (centrat the curr 503) 25 tories c	ent tern 4-1452	us of ser	ure/Top	pical (T) ; t	Edible (E); Beve	rage (B) "Relinquished	by" you are agreeing to these terms Page of www.columbialaboratories.com





Report Number: 21-014852/D005.R000

12/24/2021 Report Date: ORELAP#: OR100028

Purchase Order:

Received: 12/20/21 14:47

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

Laboratory Quality Control Results									
J AOAC 2015 V98	AOAC 2015 V98-6 Batch ID: 2111410								
Laboratory Contro	ol Sample								
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes		
CBDVA	0.00906	0.01	%	90.6	85.0 - 115	Acceptable			
CBDV	0.0105	0.01	%	105	85.0 - 115	Acceptable			
CBE	0.00928	0.01	%	92.8	85.0 - 115	Acceptable			
CBDA	0.00994	0.01	%	99.4	85.0 - 115	Acceptable			
CBGA	0.00950	0.01	%	95.0	85.0 - 115	Acceptable			
CBG	0.00910	0.01	%	91.0	85.0 - 115	Acceptable			
CBD	0.00968	0.01	%	96.8	85.0 - 115	Acceptable			
THCV	0.00920	0.01	%	92.0	85.0 - 115	Acceptable			
d8THCV	0.00943	0.01	%	94.3	85.0 - 115	Acceptable			
THCVA	0.00908	0.01	%	90.8	85.0 - 115	Acceptable			
CBN	0.0101	0.01	%	101	85.0 - 115	Acceptable			
exo-THC	0.00887	0.01	%	88.7	85.0 - 115	Acceptable			
d9THC	0.00959	0.01	%	95.9	85.0 - 115	Acceptable			
d8THC	0.00943	0.01	%	94.3	85.0 - 115	Acceptable			
CBL	0.00879	0.01	%	87.9	85.0 - 115	Acceptable			
CBC	0.00967	0.01	%	96.7	85.0 - 115	Acceptable			
THCA	0.00942	0.01	%	94.2	85.0 - 115	Acceptable			
CBCA	0.00975	0.01	%	97.5	85.0 - 115	Acceptable			
CBLA	0.00948	0.01	%	94.8	85.0 - 115	Acceptable			
CBT	0.0164	0.01	%	164	85.0 - 115	Acceptable	Q6		

Method Blank						
Analyte	Result	LOQ	Units	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	
CBE	<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

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

LOQ - Limit of Quantitation

Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

% - Percent





Report Number: 21-014852/D005.R000

Report Date: 12/24/2021 ORELAP#: OR100028

Purchase Order:

Received: 12/20/21 14:47

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

Laboratory Quality Control Results

J AOAC 2015 V	98-6				Bato	ch ID: 2111410					
Sample Duplica	te			Sample ID: 21-014812-0001							
Analyte	Result	Org. Result	LOQ	Units	RPD	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				
CBE	<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	<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				
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	0.00301	0.00305	0.003	%	1.21	< 20	Acceptable				
CBD	0.231	0.230	0.003	%	0.128	< 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	0.00305	0.00304	0.003	%	0.487	< 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	<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				
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	<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				
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				
CBT	<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

NA - Calculation Not Applicable given non-numerical results

Units of Measure:

% - Percent





Report Number: 21-014852/D005.R000

Report Date: 12/24/2021 ORELAP#: OR100028

Purchase Order:

Received: 12/20/21 14:47

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.