



Report Number: 20-010895/D02.R00

Report Date: 10/14/2020 ORELAP#: OR100028 Purchase Order: testCode

10/07/20 15:49 Received:

Customer: Healthy Roots Product identity: #106, 1000 Mint v2

Client/Metrc ID:

Laboratory ID: 20-010895-0002

Summary

Potency:						
Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g	991 mg/28.5g
CBC	0.143		%			
CBC-A [†]	0.0604		%		<u> </u>	
CBD	2.92		%		THC-Total per 28.5g	10.7 mg/28.5g
CBD-A	0.637		%		Reported in milligr	
CBDV [†]	0.0272		%		(Neported in milligr	ams per serving)
CBDV-A [†]	0.0201		%			
CBG [†]	0.0157		%			
CBG-A [†]	0.0112		%			
Δ9-THC	0.0377		%			
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g	40.8		mg/28.5g			
CBC-A per 28.5g	17.2		mg/28.5g			
CBD per 28.5g	832		mg/28.5g			
CBD-A per 28.5g	182		mg/28.5g			
CBDV per 28.5g	7.75		mg/28.5g			
CBDV-A per 28.5g	5.73		mg/28.5g			
CBG per 28.5g	4.47		mg/28.5g			
CBG-A per 28.5g	3.19		mg/28.5g			
A9-THC per 28.5g	10.7		ma/28 5a			





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Customer: Healthy Roots

Product identity: #106, 1000 Mint v2

Client/Metrc ID: .

Sample Date:

Laboratory ID: 20-010895-0002

Relinquished by: Client
Temp: 21.1 °C
Serving Size #1: 28.5 g

Sample Results

Potency	Method J AOAC	2015 V98-6 (mod)	Batch: 2008429		Analyze: 10/13/20 4:02:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.143		%	0.0032	
CBC-A [†]	0.0604		%	0.0032	
CBC-Total [†]	0.196		%	0.0060	
CBD	2.92		%	0.0318	
CBD-A	0.637		%	0.0032	
CBD-Total	3.48		%	0.0346	
CBDV [†]	0.0272		%	0.0032	
CBDV-A [†]	0.0201		%	0.0032	
CBDV-Total [†]	0.0446		%	0.0059	
CBG [†]	0.0157		%	0.0032	
CBG-A [†]	0.0112		%	0.0032	
CBG-Total	0.0255		%	0.0059	
CBL [†]	< LOQ		%	0.0032	
CBN	< LOQ		%	0.0032	
$\Delta 8$ -THC [†]	< LOQ		%	0.0032	
Δ9-THC	0.0377		%	0.0032	
THC-A	< LOQ		%	0.0032	
THC-Total	0.0377		%	0.0060	
THCV [†]	< LOQ		%	0.0032	
THCV-A [†]	< LOQ		%	0.0032	
THCV-Total [†]	< LOQ		%	0.0059	
Total Cannabinoids [†]	3.87		%		

Potency per 28.5g	Method J AOA	AC 2015 V98-6 (mod)	Batch: 2008429		Analyze: 10/13/20 4:02:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g	40.8		mg/28.5g	0.906	
CBC-A per 28.5g	17.2		mg/28.5g	0.906	
CBC-Total per 28.5g	55.9		mg/28.5g	1.70	
CBD per 28.5g	832		mg/28.5g	9.06	
CBD-A per 28.5g	182		mg/28.5g	0.906	
CBD-Total per 28.5g	991		mg/28.5g	9.85	
CBDV per 28.5g	7.75		mg/28.5g	0.906	
CBDV-A per 28.5g	5.73		mg/28.5g	0.906	
					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 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





20-010895/D02.R00 **Report Number:**

Report Date: 10/14/2020 ORELAP#: OR100028 Purchase Order: testCode

10/07/20 15:49 Received:

Potency per 28.5g	Method J AO	AC 2015 V98-6 (mod)	Batch: 2008429		Analyze: 10/13/20 4:02:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBDV-Total per 28.5g	12.7		mg/28.5g	1.69	
CBG per 28.5g	4.47		mg/28.5g	0.906	
CBG-A per 28.5g	3.19		mg/28.5g	0.906	
CBG-Total per 28.5g	7.24		mg/28.5g	1.69	
CBL per 28.5g	< LOQ		mg/28.5g	0.906	
CBN per 28.5g	< LOQ		mg/28.5g	0.906	
Δ8-THC per 28.5g	< LOQ		mg/28.5g	0.906	
Δ9-THC per 28.5g	10.7		mg/28.5g	0.906	
THC-A per 28.5g	< LOQ		mg/28.5g	0.906	
THC-Total per 28.5g	10.7		mg/28.5g	1.70	
THCV per 28.5g	< LOQ		mg/28.5g	0.906	
THCV-A per 28.5g	< LOQ		mg/28.5g	0.906	
THCV-Total per 28.5g	< LOQ		mg/28.5g	1.70	
Total Cannabinoids 28.5g [†]	1100		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

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

Approved Signatory

Derrick Tanner General Manager





Report Number: 20-010895/D02.R00

Report Date: 10/14/2020

ORELAP#: OR100028

Purchase Order: testCode

Received: 10/07/20 15:49

PIXIS Labs ATentamus Company 20-610895 rtland OR 97230 p.503-254-1794 Cannabis Chain of Custody Record 17 Healthy Roots ORELAP ID: OR100028 Ct **Analysis Requested** Purchase Order Number: Cc Company: Healthy Roots Contact: Liz Merritt Address: 14325 NE Airport Way, #113 License: AG-L 1052211FP Email: Healthyrootshemp@gmail.com Phone: 503-496-2329 Project Number: Pesticide Multi-Residue – 379 compounds Ac Project Name: Cit Portland, OR 97230 Micro: E. Coli and Total Coliform CHAIN OF CUSTODY En Ph Pesticides – OR 59 compounds ☐ Report Instructions: ☐ Send to State - METRC Fax: ☐ Email Final Results: Micro: Yeast and Mold ☐ Fax Final Results ☐ Cash/Check/CC/Net 30 Residual Solvents Water Activity Heavy Metals Mycotoxins Moisture Terpenes Potency Serving Sample size Ca Healthy Roots Date/Time Collected Weight Туре for edible: 28,5 % Report in mg/gr and (percentage de, 1000 Mintua Collected By: Relinquished By: Date Time Received by: Date Lab Use Only: Client Alias: Turnaround time: 15:49 10-Order Number: Ask for availability Proper Container ☐Standard (5 day) Sample Condition ☐Rush (3-4 day) (1.5x Standard) Temperature: ☐ Priority Rush (2 day) Shipped Via: C1:cont (2x Standard) Evidence of cooling: SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM Revision: 3.00 Control#: CF023 www.pixislabs.com Page 1 of 2 1 Effective 05/22/2019 Revised 05/22/2019 www.columbiafoodlab.com

Original document received without a Relinquished by signature -PG





20-010895/D02.R00 **Report Number:**

Report Date: 10/14/2020 ORELAP#: OR100028

Purchase Order: testCode

10/07/20 15:49 Received:

Our Roods Run Deep			and the second second second		-	*****		A	nalys	sis Re	quest	ed	-					Purchase Ord	er Number:	
CHAIN Company: Healthy I Contact: Liz Merritt Contact: Liz Merritt Address: 14325 NE Portland, Email: Healthyroots Phone: 503-496-23 License: AG-L 1052: AG M M M M M M M			379 compounds												a talinina an asaa ay ahii			Project Numb Project Name	er:	
CHAIN OF CUSTODY Company: Healthy Roots Contact: Liz Merritt Address: 14925 NE Airport Way, #113 Address: 14925 NE Airport Way, #113 Email: Healthyrootshenp@gmail.com Phone: 503-496-2329 Phone: 503-496-2329 Phone: 503-496-2321FP	Fax:	– OR 59 compounds	Pesticide Multi-Residue – 379 con		olvents	ivity			Micro: Yeast and Mold	Micro: E.Colj and Total Coliform	tals	S						☐ Report Inst: ☐ Send to Sta ☐ Email Final ☐ Fax Final Re ☐ Cash/Check Other:	te - METRC Results: esults	
Silenc sample ruenuncarion	Date/Time Collected	Pesticides	Pesticide N	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yea	Micro: E.C	Heavy Metals	Mycotoxins	Other	Sample Type	Weig		rving size edibles	Co I lealthy	Roots	
\$105,1000 Berry vi	2			~											28	551	-			
106,1000 Mintua				V														and % (percentage)	Report in mg/gr	
Collected By:	Relinguished E	lv.			Date		Time		Rece	ived by	r•			Date		Time	Lak	Use Only:		
Turnaround time: Ask for availability Standard (5 day) Rush (3-4 day)		2v1	out		19-	7	1574		7	n	1			10.		15:4	Ord Pro Sar	ent Alias: der Number: oper Container nple Condition	1	
(1.5x Standard) □Priority Rush (2 day) (2x Standard)																	Shi	nperature: pped Via: dence of coolin	Client ng: ONo	
SUBMISSION OF SAMPLES WITH T vision: 3.00 Control#: CF023_ ective 05/22/2019 Revised 05/		MENTS T	O PIXIS	WILL B	E UNDE	RSTOOI	V	ww.pi	xislab			S IN ACC	ORDAN	ICE WITH TI	HE CONDI	TIONS LIS		THE BACK OF THIS		





20-010895/D02.R00 **Report Number:**

Report Date: 10/14/2020 ORELAP#: OR100028

Purchase Order: testCode

Received: 10/07/20 15:49

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

Laboratory Quality Control Results

J AOAC 2015	5 V98-6		utory				
Laboratory C	ontrol Sample						
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.00956	0.01	%	95.6	85.0 - 115	Acceptable	
CBDV	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBD-A	0.00999	0.01	%	99.9	85.0 - 115	Acceptable	
CBG-A	0.00921	0.01	%	92.1	85.0 - 115	Acceptable	
CBG	0.00966	0.01	%	96.6	85.0 - 115	Acceptable	
CBD	0.0113	0.01	%	113	85.0 - 115	Acceptable	
THCV	0.00941	0.01	%	94.1	85.0 - 115	Acceptable	
THCVA	0.00910	0.01	%	91.0	85.0 - 115	Acceptable	
CBN	0.0100	0.01	%	100	85.0 - 115	Acceptable	
THC	0.0102	0.01	%	102	85.0 - 115	Acceptable	
D8THC	0.00927	0.01	%	92.7	85.0 - 115	Acceptable	
CBL	0.00874	0.01	%	87.4	85.0 - 115	Acceptable	
CBC	0.00984	0.01	%	98.4	85.0 - 115	Acceptable	
THCA	0.00911	0.01	%	91.1	85.0 - 115	Acceptable	
CBCA	0.00953	0.01	%	95.3	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	<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	
CBD-A	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBG-A	<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	0.00190	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	
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	
THC	<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	

Abbreviations

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

Units of Measure:

% - Percent





Report Number: 20-010895/D02.R00

Report Date: 10/14/2020 ORELAP#: OR100028

Purchase Order: testCode

Received: 10/07/20 15:49

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				Bato	ch ID: 2008429)				
Sample Dupli	icate			Sample ID: 20-010863-0001							
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes			
CBDV-A	<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	0.00877	0.00882	0.003	%	0.579	< 20	Acceptable				
CBD-A	<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-A	<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	<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				
CBD	0.437	0.439	0.003	%	0.398	< 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				
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				
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				
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				
СВС	<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				

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





20-010895/D02.R00 **Report Number:**

Report Date: 10/14/2020 ORELAP#: OR100028

Purchase Order: testCode

Received: 10/07/20 15:49

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.