



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



**Report Number:** 20-009479/D04.R00  
**Report Date:** 09/10/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/04/20 16:15

**Customer:** Healthy Roots  
**Product identity:** #98 1000 Natural  
**Client/Metric ID:** .  
**Laboratory ID:** 20-009479-0001

## Summary

### Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g	1030 mg/28.5g
CBC	0.133		%			
CBC-A†	0.0804		%			
CBD	2.99		%		THC-Total per 28.5g	11.4 mg/28.5g
CBD-A	0.726		%			
CBDV†	0.0262		%			
CBDV-A†	0.0232		%			
CBG†	0.0149		%			
CBG-A†	0.0128		%			
Δ9-THC	0.0370		%			
THC-A	0.00350		%			
						(Reported in milligrams per serving)
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g	37.9		mg/28.5g			
CBC-A per 28.5g	22.9		mg/28.5g			
CBD per 28.5g	852		mg/28.5g			
CBD-A per 28.5g	207		mg/28.5g			
CBDV per 28.5g	7.47		mg/28.5g			
CBDV-A per 28.5g	6.61		mg/28.5g			
CBG per 28.5g	4.25		mg/28.5g			
CBG-A per 28.5g	3.65		mg/28.5g			
Δ9-THC per 28.5g	10.5		mg/28.5g			
THC-A per 28.5g	0.998		mg/28.5g			



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**Customer:** Healthy Roots

**Product identity:** #98 1000 Natural  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 20-009479-0001  
**Relinquished by:** Client  
**Temp:** 26.3 °C  
**Serving Size #1:** 28.5 g

### Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Batch: 2007421	Analyze: 9/9/20 2:33:00 AM		
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.133		%	0.0033	
CBC-A†	0.0804		%	0.0033	
CBC-Total†	0.204		%	0.0062	
CBD	2.99		%	0.0330	
CBD-A	0.726		%	0.0033	
CBD-Total	3.63		%	0.0359	
CBDV†	0.0262		%	0.0033	
CBDV-A†	0.0232		%	0.0033	
CBDV-Total†	0.0463		%	0.0062	
CBG†	0.0149		%	0.0033	
CBG-A†	0.0128		%	0.0033	
CBG-Total	0.0261		%	0.0062	
CBL†	< LOQ		%	0.0033	
CBN	< LOQ		%	0.0033	
Δ8-THC†	< LOQ		%	0.0033	
Δ9-THC	0.0370		%	0.0033	
THC-A	0.00350		%	0.0033	
THC-Total	0.0401		%	0.0062	
THCV†	< LOQ		%	0.0033	
THCV-A†	< LOQ		%	0.0033	
THCV-Total†	< LOQ		%	0.0062	
Total Cannabinoids†	4.05		%		

Potency per 28.5g	Method J AOAC 2015 V98-6 (mod)	Batch: 2007421	Analyze: 9/9/20 2:33:00 AM		
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g	37.9		mg/28.5g	0.940	
CBC-A per 28.5g	22.9		mg/28.5g	0.940	
CBC-Total per 28.5g	58.0		mg/28.5g	1.76	
CBD per 28.5g	852		mg/28.5g	9.40	
CBD-A per 28.5g	207		mg/28.5g	0.940	
CBD-Total per 28.5g	1030		mg/28.5g	10.2	
CBDV per 28.5g	7.47		mg/28.5g	0.940	
CBDV-A per 28.5g	6.61		mg/28.5g	0.940	

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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



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Potency per 28.5g					
Method J AOAC 2015 V98-6 (mod) Batch: 2007421 Analyze: 9/9/20 2:33:00 AM					
Analyte	Result	Limits	Units	LOQ	Notes
CBDV-Total per 28.5g	13.2		mg/28.5g	1.75	
CBG per 28.5g	4.25		mg/28.5g	0.940	
CBG-A per 28.5g	3.65		mg/28.5g	0.940	
CBG-Total per 28.5g	7.41		mg/28.5g	1.75	
CBL per 28.5g	< LOQ		mg/28.5g	0.940	
CBN per 28.5g	< LOQ		mg/28.5g	0.940	
Δ8-THC per 28.5g	< LOQ		mg/28.5g	0.940	
Δ9-THC per 28.5g	10.5		mg/28.5g	0.940	
THC-A per 28.5g	0.998		mg/28.5g	0.940	
THC-Total per 28.5g	11.4		mg/28.5g	1.76	
THCV per 28.5g	< LOQ		mg/28.5g	0.940	
THCV-A per 28.5g	< LOQ		mg/28.5g	0.940	
THCV-Total per 28.5g	< LOQ		mg/28.5g	1.77	
<b>Total Cannabinoids 28.5g<sup>†</sup></b>	<b>1150</b>		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 = Gram

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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124 land OR 97230 p.503-254-1794 Cannabis Chain of Custody Record 20-009479 PIXIS Labs  
ORELAP ID: OR100028

Healthy Roots  
Our Roots Run Deep

Company: Healthy Roots  
Contact: Liz Merritt  
Address: 14325 NE Airport Way, #113  
Portland, OR 97230  
Email: HealthyRootsTemp@gmail.com  
Phone: 503-496-2329  
License: AG-L105211FP

CHAIN OF CUSTODY

Con: \_\_\_\_\_  
Con: \_\_\_\_\_  
Add: \_\_\_\_\_  
City: \_\_\_\_\_  
Ema: \_\_\_\_\_  
Phor: \_\_\_\_\_  
Billing: \_\_\_\_\_  
Proc: \_\_\_\_\_  
Licer: \_\_\_\_\_

Client: \_\_\_\_\_

Date/Time Collected: \_\_\_\_\_

Pesticides - OR 59 compounds

Pesticide Multi-Residue - 379 compounds

Potency

Residual Solvents

Water Activity

Moisture

Terpenes

Micro: Yeast and Mold

Micro: E. Coli and Total Coliform

Heavy Metals

Mycotoxins

Other: \_\_\_\_\_

Sample Type: \_\_\_\_\_

Weight: \_\_\_\_\_

Serving size for edibles: \_\_\_\_\_

Co: \_\_\_\_\_

Report in mg/gr and % (percentage)

1 #98.1000 natural

2 Breeding Wive Bar Soap

3 Petdine #101

Turnaround time:  
Ask for availability  
☒ Standard (5 day)  
☐ Rush (3-4 day)  
(1.5x Standard)  
☐ Priority Rush (2 day)  
(2x Standard)

Relinquished By: Liz Merritt

Date: 9/3/20

Time: 3:45pm

Received by: Hagen Abu

Date: 09/03

Time: 16:15

Lab Use Only:  
Client Alias:  
Order Number:  
Proper Container  
Sample Condition  
Temperature: 26.3  
Shipped Via:  
Evidence of cooling: ☐ No

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  
Effective 05/22/2019 Revised 05/22/2019 www.columbiabiofoodlab.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: 2007421										
Laboratory Control Sample										
Analyte	Result		Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDV-A	0.00977		0.01	%	97.7	85.0 - 115		Acceptable		
CBDV	0.0102		0.01	%	102	85.0 - 115		Acceptable		
CBD-A	0.00997		0.01	%	99.7	85.0 - 115		Acceptable		
CBG-A	0.00932		0.01	%	93.2	85.0 - 115		Acceptable		
CBG	0.0100		0.01	%	100	85.0 - 115		Acceptable		
CBD	0.0109		0.01	%	109	85.0 - 115		Acceptable		
THCV	0.00977		0.01	%	97.7	85.0 - 115		Acceptable		
THCVA	0.00922		0.01	%	92.2	85.0 - 115		Acceptable		
CBN	0.0103		0.01	%	103	85.0 - 115		Acceptable		
THC	0.00951		0.01	%	95.1	85.0 - 115		Acceptable		
D8THC	0.00988		0.01	%	98.8	85.0 - 115		Acceptable		
CBL	0.00891		0.01	%	89.1	85.0 - 115		Acceptable		
CBC	0.0100		0.01	%	100	85.0 - 115		Acceptable		
THCA	0.00925		0.01	%	92.5	85.0 - 115		Acceptable		
CBCA	0.0112		0.01	%	112	85.0 - 115		Acceptable		

#### Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes	
CBDV-A	<LOQ	0.003	%	< 0.003	Acceptable		
CBDV	<LOQ	0.003	%	< 0.003	Acceptable		
CBD-A	<LOQ	0.003	%	< 0.003	Acceptable		
CBG-A	<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		
THCVA	<LOQ	0.003	%	< 0.003	Acceptable		
CBN	<LOQ	0.003	%	< 0.003	Acceptable		
THC	<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		
CBCA	<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: 2007421			
Sample Duplicate					Sample ID: 20-009247-0001-01			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0561	0.0563	0.003	%	0.234	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0439	0.0461	0.003	%	4.81	< 20	Acceptable	
CBD	11.8	11.9	0.003	%	1.18	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THC	0.164	0.163	0.003	%	0.889	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	0.0168	0.0164	0.003	%	2.90	< 20	Acceptable	
CBC	0.00548	0.00538	0.003	%	1.94	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<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



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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.