



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



**Report Number:** 20-006062/D03.R00  
**Report Date:** 06/18/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/12/20 10:00

**Customer:** Healthy Roots  
**Product identity:** 1000 Berry #88  
**Client/Metric ID:** .  
**Laboratory ID:** 20-006062-0002

### Summary

#### Potency:

Analyte	Result	Limits	Units	Status	
CBC	0.201		%		CBD-Total per 28.5g 994 mg/28.5g
CBC-A†	0.0281		%		
CBD	3.17		%		THC-Total per 28.5g 12.3 mg/28.5g
CBD-A	0.362		%		
CBDV†	0.0389		%		(Reported in milligrams per serving)
CBDV-A†	0.0116		%		
CBG†	0.0232		%		
CBG-A†	0.0117		%		
Δ9-THC	0.0430		%		
Analyte per 28.5g	Result	Limits	Units	Status	
CBC per 28.5g	57.3		mg/28.5g		
CBC-A per 28.5g	8.01		mg/28.5g		
CBD per 28.5g	903		mg/28.5g		
CBD-A per 28.5g	103		mg/28.5g		
CBDV per 28.5g	11.1		mg/28.5g		
CBDV-A per 28.5g	3.31		mg/28.5g		
CBG per 28.5g	6.61		mg/28.5g		
CBG-A per 28.5g	3.33		mg/28.5g		
Δ9-THC per 28.5g	12.3		mg/28.5g		

#### Microbiology:

Less than LOQ for all analytes.



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**Customer:** Healthy Roots  
**Product identity:** 1000 Berry #88  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 20-006062-0002  
**Temp:** 14 °C

### Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)			Batch: 2005059	Analyze: 6/16/20 9:03:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.201		%	0.0032	
CBC-A <sup>†</sup>	0.0281		%	0.0032	
CBC-Total <sup>†</sup>	0.226		%	0.0060	
CBD	3.17		%	0.0321	
CBD-A	0.362		%	0.0032	
CBD-Total	3.49		%	0.0349	
CBDV <sup>†</sup>	0.0389		%	0.0032	
CBDV-A <sup>†</sup>	0.0116		%	0.0032	
CBDV-Total <sup>†</sup>	0.0490		%	0.0060	
CBG <sup>†</sup>	0.0232		%	0.0032	
CBG-A <sup>†</sup>	0.0117		%	0.0032	
CBG-Total	0.0335		%	0.0060	
CBL <sup>†</sup>	< LOQ		%	0.0032	
CBN	< LOQ		%	0.0032	
Δ8-THC <sup>†</sup>	< LOQ		%	0.0032	
Δ9-THC	0.0430		%	0.0032	
THC-A	< LOQ		%	0.0032	
THC-Total	0.0430		%	0.0060	
THCV <sup>†</sup>	0.000		%	0.0032	
THCV-A <sup>†</sup>	< LOQ		%	0.0032	
THCV-Total <sup>†</sup>	< LOQ		%	0.0060	
<b>Total Cannabinoids<sup>†</sup></b>	<b>3.89</b>		%		

Potency per 28.5g	Method J AOAC 2015 V98-6 (mod)			Batch: 2005059	Analyze: 6/16/20 9:03:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g	57.3		mg/28.5g	0.914	
CBC-A per 28.5g	8.01		mg/28.5g	0.914	
CBC-Total per 28.5g	64.3		mg/28.5g	1.72	
CBD per 28.5g	903		mg/28.5g	9.14	
CBD-A per 28.5g	103		mg/28.5g	0.914	
CBD-Total per 28.5g	994		mg/28.5g	9.94	
CBDV per 28.5g	11.1		mg/28.5g	0.914	
CBDV-A per 28.5g	3.31		mg/28.5g	0.914	
CBDV-Total per 28.5g	14.0		mg/28.5g	1.71	
CBG per 28.5g	6.61		mg/28.5g	0.914	

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Potency per 28.5g **Method** J AOAC 2015 V98-6 (mod) **Batch:** 2005059 **Analyze:** 6/16/20 9:03:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBG-A per 28.5g	3.33		mg/28.5g	0.914	
CBG-Total per 28.5g	9.50		mg/28.5g	1.71	
CBL per 28.5g	< LOQ		mg/28.5g	0.914	
CBN per 28.5g	< LOQ		mg/28.5g	0.914	
Δ8-THC per 28.5g	< LOQ		mg/28.5g	0.914	
Δ9-THC per 28.5g	12.3		mg/28.5g	0.914	
THC-A per 28.5g	< LOQ		mg/28.5g	0.914	
THC-Total per 28.5g	12.3		mg/28.5g	1.72	
THCV per 28.5g	< LOQ		mg/28.5g	0.914	
THCV-A per 28.5g	< LOQ		mg/28.5g	0.914	
THCV-Total per 28.5g	< LOQ		mg/28.5g	1.72	
<b>Total Cannabinoids 28.5g<sup>†</sup></b>	<b>1110</b>		mg/28.5g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2004933	06/15/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2004933	06/15/20	AOAC 991.14 (Petrifilm)	X

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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**

cfu/g = Colony forming units per gram

g = Gram

mg/28.5g = Milligram per 28.5g

% = Percentage of sample

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

**Glossary of Qualifiers**

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner  
General Manager



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HEALTHYROOTS 20-006062



2423 NI

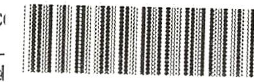
OR 97230 p.503-254-1794 Cannabis Chain of Custody Rec

Company:  
 Contact:  
 Address:  
 City, State:  
 Mail:  
 Phone:  
 Billing (if d  
 Access):  
 License:



Company: Healthy Roots  
 Contact: Liz Merritt  
 Address: 14325 NE Airport Way, #113  
 Portland, OR 97230  
 Email: Healthyroots@healthyroots.com  
 Phone: 503-496-2329  
 License: AG-1-1052211FP

Analysis Requested



LAP ID: OR100028

Purchase Order Number:  
 Project Number:  
 Project Name:  
 Report Instructions:  
 Send to State - METRC  
 Email Final Results:  
 Fax Final Results  
 Cash/Check/CC/Net 30

Client Sam

Date/Time  
 Collected

Sample Type	Weight	Serving size for edibles	Com	Report in mg/gr and % (percentage)
#1 500 Berry #87	28.5 grams		Healthy Roots	
#2 1000 Berry #88	28.5 gr			
#3 1000 mint #89	28.5 gr			

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
	CLMORRETT	6/12/20	10:00AM	Jmw	6-12-20	10:00	Client Alias: Order Number: Proper Container Sample Condition Temperature: 14.1 Shipped Via: client Evidence of cooling: <input checked="" type="checkbox"/> 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  
 Version: 3.00 Controll#: CF023 www.pixislabs.com  
 Effective 05/22/2019 Revised 05/22/2019 www.columbiafoodlab.com

Page 1 of 2  
 JS 6/18/20

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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: 2005059**

**Laboratory Control Sample**

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.00970	0.01	%	97.0	85.0 - 115	Acceptable	
CBDV	0.00992	0.01	%	99.2	85.0 - 115	Acceptable	
CBD-A	0.00962	0.01	%	96.2	85.0 - 115	Acceptable	
CBG-A	0.00966	0.01	%	96.6	85.0 - 115	Acceptable	
CBG	0.00970	0.01	%	97.0	85.0 - 115	Acceptable	
CBD	0.00915	0.01	%	91.5	85.0 - 115	Acceptable	
THCV	0.00932	0.01	%	93.2	85.0 - 115	Acceptable	
THCVA	0.00957	0.01	%	95.7	85.0 - 115	Acceptable	
CBN	0.00949	0.01	%	94.9	85.0 - 115	Acceptable	
THC	0.00970	0.01	%	97.0	85.0 - 115	Acceptable	
D8THC	0.00935	0.01	%	93.5	85.0 - 115	Acceptable	
CBL	0.00989	0.01	%	98.9	85.0 - 115	Acceptable	
CBC	0.00972	0.01	%	97.2	85.0 - 115	Acceptable	
THCA	0.00928	0.01	%	92.8	85.0 - 115	Acceptable	
CBCA	0.00964	0.01	%	96.4	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: 2005059						
Sample Duplicate		Sample ID: 20-005977-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0341	0.0334	0.003	%	2.24	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0294	0.0288	0.003	%	2.17	< 20	Acceptable	
CBD	2.20	2.16	0.003	%	1.47	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.00490	0.00493	0.003	%	0.504	< 20	Acceptable	
THC	0.0830	0.0816	0.003	%	1.73	< 20	Acceptable	
D8THC	0.00321	0.00339	0.003	%	5.47	< 20	Acceptable	
CBL	0.00886	0.00891	0.003	%	0.538	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.003	%	NA	< 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.