



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



Report Number: 20-006062/D04.R00
Report Date: 06/18/2020
ORELAP#: OR100028
Purchase Order:
Received: 06/12/20 10:00

Customer: Healthy Roots
Product identity: 500 Berry #87
Client/Metric ID: .
Laboratory ID: 20-006062-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBC	0.0991		%		CBD-Total per 28.5g 495 mg/28.5g
CBC-A†	0.0134		%		
CBD	1.58		%		THC-Total per 28.5g 6.07 mg/28.5g
CBD-A	0.179		%		
CBDV†	0.0198		%		(Reported in milligrams per serving)
CBDV-A†	0.00565		%		
CBG†	0.0113		%		
CBG-A†	0.00557		%		
Δ9-THC	0.0213		%		
Analyte per 28.5g	Result	Limits	Units	Status	
CBC per 28.5g	28.2		mg/28.5g		
CBC-A per 28.5g	3.82		mg/28.5g		
CBD per 28.5g	450		mg/28.5g		
CBD-A per 28.5g	51.0		mg/28.5g		
CBDV per 28.5g	5.64		mg/28.5g		
CBDV-A per 28.5g	1.61		mg/28.5g		
CBG per 28.5g	3.22		mg/28.5g		
CBG-A per 28.5g	1.59		mg/28.5g		
Δ9-THC per 28.5g	6.07		mg/28.5g		

Microbiology:

Less than LOQ for all analytes.



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Customer: Healthy Roots

Product identity: 500 Berry #87

Client/Metric ID: .

Sample Date:

Laboratory ID: 20-006062-0001

Temp: 14 °C

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)			Batch: 2005059	Analyze: 6/16/20 8:52:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes	
CBC	0.0991		%	0.0032		
CBC-A [†]	0.0134		%	0.0032		
CBC-Total [†]	0.111		%	0.0059		
CBD	1.58		%	0.0316		
CBD-A	0.179		%	0.0032		
CBD-Total	1.74		%	0.0343		
CBDV [†]	0.0198		%	0.0032		
CBDV-A [†]	0.00565		%	0.0032		
CBDV-Total [†]	0.0247		%	0.0059		
CBG [†]	0.0113		%	0.0032		
CBG-A [†]	0.00557		%	0.0032		
CBG-Total	0.0162		%	0.0059		
CBL [†]	< LOQ		%	0.0032		
CBN	< LOQ		%	0.0032		
Δ8-THC [†]	< LOQ		%	0.0032		
Δ9-THC	0.0213		%	0.0032		
THC-A	< LOQ		%	0.0032		
THC-Total	0.0213		%	0.0059		
THCV [†]	< LOQ		%	0.0032		
THCV-A [†]	< LOQ		%	0.0032		
THCV-Total [†]	< LOQ		%	0.0059		
Total Cannabinoids[†]	1.94		%			

Potency per 28.5g	Method J AOAC 2015 V98-6 (mod)			Batch: 2005059	Analyze: 6/16/20 8:52:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 28.5g	28.2		mg/28.5g	0.900		
CBC-A per 28.5g	3.82		mg/28.5g	0.900		
CBC-Total per 28.5g	31.6		mg/28.5g	1.69		
CBD per 28.5g	450		mg/28.5g	9.00		
CBD-A per 28.5g	51.0		mg/28.5g	0.900		
CBD-Total per 28.5g	495		mg/28.5g	9.79		
CBDV per 28.5g	5.64		mg/28.5g	0.900		
CBDV-A per 28.5g	1.61		mg/28.5g	0.900		
CBDV-Total per 28.5g	7.04		mg/28.5g	1.68		
CBG per 28.5g	3.22		mg/28.5g	0.900		

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Potency per 28.5g **Method** J AOAC 2015 V98-6 (mod) **Batch:** 2005059 **Analyze:** 6/16/20 8:52:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBG-A per 28.5g	1.59		mg/28.5g	0.900	
CBG-Total per 28.5g	4.60		mg/28.5g	1.68	
CBL per 28.5g	< LOQ		mg/28.5g	0.900	
CBN per 28.5g	< LOQ		mg/28.5g	0.900	
Δ8-THC per 28.5g	< LOQ		mg/28.5g	0.900	
Δ9-THC per 28.5g	6.07		mg/28.5g	0.900	
THC-A per 28.5g	< LOQ		mg/28.5g	0.900	
THC-Total per 28.5g	6.07		mg/28.5g	1.69	
THCV per 28.5g	< LOQ		mg/28.5g	0.900	
THCV-A per 28.5g	< LOQ		mg/28.5g	0.900	
THCV-Total per 28.5g	< LOQ		mg/28.5g	1.69	
Total Cannabinoids 28.5g[†]	552		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

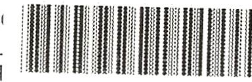
OR 97230 p.503-254-1794 Cannabis Chain of Custody Rec

Company:
Contact:
Address:
City, State:
Mail:
Phone:
Billing (if d
Accesso
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-11052211FP

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

Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: <u>E. Coli</u> and Total Coliform	Heavy Metals	Mycotoxins	Other
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Sample Type	Weight	Serving size for edibles	Com	Report in mg/gr and % (percentage)
	28.5 grams		Healthy Roots	
	28.5 gr			
	28.5 gr			

#1 500 Berry #87
#2 1000 Berry #88
#3 1000 mint #89

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
	CLIMORETT	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.columbiainfoodlab.com

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js 6/18/20

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Received: 06/12/20 10:00

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.