



Customer: Healthy Roots
Product identity: 1000 #48 Berry
Client/Metric ID: .
Laboratory ID: 20-000047-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBC [†]	0.0854		%		CBD-Total per 28.5g 1070 mg/28.5g
CBD	3.74		%		
CBD-A	0.0193		%		THC-Total per 28.5g 17.7 mg/28.5g
CBDV [†]	0.0181		%		(Reported in milligrams per serving)
CBG [†]	0.0625		%		
Δ9-THC	0.0622		%		
Analyte per 28.5g	Result	Limits	Units	Status	
CBC per 28.5g [†]	24.3		mg/28.5g		
CBD per 28.5g	1070		mg/28.5g		
CBD-A per 28.5g	5.50		mg/28.5g		
CBDV per 28.5g [†]	5.16		mg/28.5g		
CBG per 28.5g [†]	17.8		mg/28.5g		
Δ9-THC per 28.5g	17.7		mg/28.5g		



Customer: Healthy Roots

Product identity: 1000 #48 Berry
Client/Metric ID: .
Sample Date:
Laboratory ID: 20-000047-0001
Relinquished by: Liz Merritt
Temp: 15.4 °C
Serving Size #1: 28.5 g

Sample Results

Potency		Batch: 2000156					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC [†]	0.0854		%	0.0032	01/06/20	J AOAC 2015 V98-6	
CBC-A [†]	< LOQ		%	0.0032	01/06/20	J AOAC 2015 V98-6	
CBC-Total [†]	0.0854		%	0.0060	01/08/20	J AOAC 2015 V98-6	
CBD	3.74		%	0.0322	01/06/20	J AOAC 2015 V98-6	
CBD-A	0.0193		%	0.0032	01/06/20	J AOAC 2015 V98-6	
CBD-Total	3.76		%	0.0350	01/08/20	J AOAC 2015 V98-6	
CBDV [†]	0.0181		%	0.0032	01/06/20	J AOAC 2015 V98-6	
CBDV-A [†]	< LOQ		%	0.0032	01/06/20	J AOAC 2015 V98-6	
CBDV-Total [†]	0.0181		%	0.0060	01/08/20	J AOAC 2015 V98-6	
CBG [†]	0.0625		%	0.0032	01/06/20	J AOAC 2015 V98-6	
CBG-A [†]	< LOQ		%	0.0032	01/06/20	J AOAC 2015 V98-6	
CBG-Total [†]	0.0625		%	0.0060	01/08/20	J AOAC 2015 V98-6	
CBL [†]	< LOQ		%	0.0032	01/06/20	J AOAC 2015 V98-6	
CBN	< LOQ		%	0.0032	01/06/20	J AOAC 2015 V98-6	
Δ8-THC [†]	< LOQ		%	0.0032	01/06/20	J AOAC 2015 V98-6	
Δ9-THC	0.0622		%	0.0032	01/06/20	J AOAC 2015 V98-6	
THC-A	< LOQ		%	0.0032	01/06/20	J AOAC 2015 V98-6	
THC-Total	0.0622		%	0.0060	01/08/20	J AOAC 2015 V98-6	
THCV [†]	< LOQ		%	0.0032	01/06/20	J AOAC 2015 V98-6	
THCV-A [†]	< LOQ		%	0.0032	01/06/20	J AOAC 2015 V98-6	
THCV-Total [†]	< LOQ		%	0.0060	01/08/20	J AOAC 2015 V98-6	

Potency per 28.5g		Batch: 2000156					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 28.5g [†]	24.3		mg/28.5g	0.950	01/08/20	J AOAC 2015 V98-6	
CBC-A per 28.5g [†]	< LOQ		mg/28.5g	0.950	01/08/20	J AOAC 2015 V98-6	
CBC-Total per 28.5g [†]	24.3		mg/28.5g	1.78	01/08/20	J AOAC 2015 V98-6	
CBD per 28.5g	1070		mg/28.5g	0.950	01/08/20	J AOAC 2015 V98-6	
CBD-A per 28.5g	5.50		mg/28.5g	0.950	01/08/20	J AOAC 2015 V98-6	
CBD-Total per 28.5g	1070		mg/28.5g	1.78	01/08/20	J AOAC 2015 V98-6	
CBDV per 28.5g [†]	5.16		mg/28.5g	0.950	01/08/20	J AOAC 2015 V98-6	



Potency per 28.5g		Batch: 2000156					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBDV-A per 28.5g [†]	< LOQ		mg/28.5g	0.950	01/08/20	J AOAC 2015 V98-6	
CBDV-Total per 28.5g [†]	5.16		mg/28.5g	1.77	01/08/20	J AOAC 2015 V98-6	
CBG per 28.5g [†]	17.8		mg/28.5g	0.950	01/08/20	J AOAC 2015 V98-6	
CBG-A per 28.5g [†]	< LOQ		mg/28.5g	0.950	01/08/20	J AOAC 2015 V98-6	
CBG-Total per 28.5g [†]	17.8		mg/28.5g	1.78	01/08/20	J AOAC 2015 V98-6	
CBL per 28.5g [†]	< LOQ		mg/28.5g	0.950	01/08/20	J AOAC 2015 V98-6	
CBN per 28.5g	< LOQ		mg/28.5g	0.950	01/08/20	J AOAC 2015 V98-6	
Δ8-THC per 28.5g [†]	< LOQ		mg/28.5g	0.950	01/08/20	J AOAC 2015 V98-6	
Δ9-THC per 28.5g	17.7		mg/28.5g	0.950	01/08/20	J AOAC 2015 V98-6	
THC-A per 28.5g	< LOQ		mg/28.5g	0.950	01/08/20	J AOAC 2015 V98-6	
THC-Total per 28.5g	17.7		mg/28.5g	1.78	01/08/20	J AOAC 2015 V98-6	
THCV per 28.5g [†]	< LOQ		mg/28.5g	0.950	01/08/20	J AOAC 2015 V98-6	
THCV-A per 28.5g [†]	< LOQ		mg/28.5g	0.950	01/08/20	J AOAC 2015 V98-6	
THCV-Total per 28.5g [†]	< LOQ		mg/28.5g	1.77	01/08/20	J AOAC 2015 V98-6	



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



ORELAP ID: OR100028

Portland OR 97230 p.503-254-1794 **Cannabis Chain of Custody Record**

HEALTHYROOTS 20-000047

Requested

Purchase Order Number:
Project Number:
Project Name:

☐ Report Instructions:
☐ Send to State - METRC
☐ Email Final Results:
☐ Fax Final Results
☐ Cash/Check/CC/Net 30
Other:

CHAIN OF CUSTODY
Company: Healthy Roots
Contact: Liz Merritt
Address: 14325 NE Airport Way, #113
Portland, OR 97230
Email: Healthyrootschem@gmail.com
Phone: 503-496-2329
License: AG-11052211FP

Client Sample Identification: **1000 #48 Berry**

Date/Time Collected: **1/3/20**

Pesticides - OR 59 compounds
Pesticide Multi-Residue - 379 compounds

Potency **X**

Residual Solvents

Water Activity

Moisture

Terpenes

Micro: Yeast and Mold

Micro: E. Coli and Total Coliform

Heavy Metals

Mycotoxins

Other

Sample Type: **anhydrous**

Weight: **28.5**

Serving size for edibles

Com

Report in mg/gr and % (percentage)

Collected By: **Liz Merritt** Relinquished By: **Liz Merritt** Date: **1/3/20** Time: **8:00** Received by: **M. J. Jones** Date: **1/3/20** Time: **8:20**

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

Lab Use Only:
Client Alias: **Healthy Roots**
Order Number: **20-000047**
Proper Container **X**
Sample Condition **15.40C**
Temperature: **15.40C**
Shipped Via: **Curry**
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.columbiafoodlab.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: 2000156
Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.00991	0.01	%	99.1	85.0 - 115	Acceptable	
CBDV	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBD-A	0.00986	0.01	%	98.6	85.0 - 115	Acceptable	
CBG-A	0.0104	0.01	%	104	85.0 - 115	Acceptable	
CBG	0.0103	0.01	%	103	85.0 - 115	Acceptable	
CBD	0.00999	0.01	%	99.9	85.0 - 115	Acceptable	
THCV	0.0103	0.01	%	103	85.0 - 115	Acceptable	
THCVA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBN	0.00999	0.01	%	99.9	85.0 - 115	Acceptable	
THC	0.00974	0.01	%	97.4	85.0 - 115	Acceptable	
D8THC	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBL	0.00994	0.01	%	99.4	85.0 - 115	Acceptable	
CBC	0.0103	0.01	%	103	85.0 - 115	Acceptable	
THCA	0.00949	0.01	%	94.9	85.0 - 115	Acceptable	
CBCA	0.0100	0.01	%	100	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



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: 2000156			
Sample Duplicate					Sample ID: 20-000003-0001			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0447	0.0448	0.003	%	0.105	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.147	0.147	0.003	%	0.102	< 20	Acceptable	
CBD	4.82	4.93	0.003	%	2.34	< 20	Acceptable	
THCV	0.00898	0.00822	0.003	%	8.93	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.00467	0.00481	0.003	%	2.78	< 20	Acceptable	
THC	0.181	0.183	0.003	%	1.05	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	0.0192	0.0193	0.003	%	0.245	< 20	Acceptable	
CBC	0.301	0.302	0.003	%	0.125	< 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



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.