



Customer: Healthy Roots
Product identity: 0031 Berry
Client/Metric ID: .
Laboratory ID: 19-014362-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status		
CBC [†]	0.0673		%		CBD-Total per 28.5g	999 mg/28.5g
CBC-A [†]	0.00995		%			
CBD	3.42		%		THC-Total per 28.5g	11.4 mg/28.5g
CBD-A	0.0989		%		(Reported in milligrams per serving)	
CBDV [†]	0.0139		%			
CBG [†]	0.0101		%			
CBN	0.00969		%			
Δ9-THC	0.0390		%			
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g [†]	19.2		mg/28.5g			
CBC-A per 28.5g [†]	2.84		mg/28.5g			
CBD per 28.5g	975		mg/28.5g			
CBD-A per 28.5g	28.2		mg/28.5g			
CBDV per 28.5g [†]	3.96		mg/28.5g			
CBG per 28.5g [†]	2.88		mg/28.5g			
CBN per 28.5g	2.76		mg/28.5g			
Δ9-THC per 28.5g	11.1		mg/28.5g			


Customer: Healthy Roots

Product identity: 0031 Berry
Client/Metric ID: .
Sample Date:
Laboratory ID: 19-014362-0001
Relinquished by: Jason Merritt
Temp: 19.3 °C
Serving Size #1: 28.5 g

Sample Results

Potency		Batch: 1910948					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC [†]	0.0673		%	0.0032	11/26/19	J AOAC 2015 V98-6	
CBC-A [†]	0.00995		%	0.0032	11/26/19	J AOAC 2015 V98-6	
CBC-Total [†]	0.0760		%	0.0060	12/03/19	J AOAC 2015 V98-6	
CBD	3.42		%	0.0321	12/02/19	J AOAC 2015 V98-6	
CBD-A	0.0989		%	0.0032	11/26/19	J AOAC 2015 V98-6	
CBD-Total	3.51		%	0.0349	12/03/19	J AOAC 2015 V98-6	
CBDV [†]	0.0139		%	0.0032	11/26/19	J AOAC 2015 V98-6	
CBDV-A [†]	< LOQ		%	0.0032	11/26/19	J AOAC 2015 V98-6	
CBDV-Total [†]	0.0139		%	0.0060	12/03/19	J AOAC 2015 V98-6	
CBG [†]	0.0101		%	0.0032	11/26/19	J AOAC 2015 V98-6	
CBG-A [†]	< LOQ		%	0.0032	11/26/19	J AOAC 2015 V98-6	
CBG-Total [†]	0.0101		%	0.0060	12/03/19	J AOAC 2015 V98-6	
CBL [†]	< LOQ		%	0.0032	11/26/19	J AOAC 2015 V98-6	
CBN	0.00969		%	0.0032	11/26/19	J AOAC 2015 V98-6	
Δ8-THC [†]	< LOQ		%	0.0032	11/26/19	J AOAC 2015 V98-6	
Δ9-THC	0.0390		%	0.0032	11/26/19	J AOAC 2015 V98-6	
THC-A	< LOQ		%	0.0032	11/26/19	J AOAC 2015 V98-6	
THC-Total	0.0401		%	0.0060	12/03/19	J AOAC 2015 V98-6	
THCV [†]	< LOQ		%	0.0032	11/26/19	J AOAC 2015 V98-6	
THCV-A [†]	< LOQ		%	0.0032	11/26/19	J AOAC 2015 V98-6	
THCV-Total [†]	< LOQ		%	0.0060	12/03/19	J AOAC 2015 V98-6	

Potency per 28.5g		Batch: 1910948					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 28.5g [†]	19.2		mg/28.5g	0.950	12/03/19	J AOAC 2015 V98-6	
CBC-A per 28.5g [†]	2.84		mg/28.5g	0.950	12/03/19	J AOAC 2015 V98-6	
CBC-Total per 28.5g [†]	21.7		mg/28.5g	1.78	12/03/19	J AOAC 2015 V98-6	
CBD per 28.5g	975		mg/28.5g	0.950	12/03/19	J AOAC 2015 V98-6	
CBD-A per 28.5g	28.2		mg/28.5g	0.950	12/03/19	J AOAC 2015 V98-6	
CBD-Total per 28.5g	999		mg/28.5g	1.78	12/03/19	J AOAC 2015 V98-6	
CBDV per 28.5g [†]	3.96		mg/28.5g	0.950	12/03/19	J AOAC 2015 V98-6	



Potency per 28.5g

Batch: 1910948

Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBDV-A per 28.5g [†]	< LOQ		mg/28.5g	0.950	12/03/19	J AOAC 2015 V98-6	
CBDV-Total per 28.5g [†]	3.96		mg/28.5g	1.77	12/03/19	J AOAC 2015 V98-6	
CBG per 28.5g [†]	2.88		mg/28.5g	0.950	12/03/19	J AOAC 2015 V98-6	
CBG-A per 28.5g [†]	< LOQ		mg/28.5g	0.950	12/03/19	J AOAC 2015 V98-6	
CBG-Total per 28.5g [†]	2.88		mg/28.5g	1.78	12/03/19	J AOAC 2015 V98-6	
CBL per 28.5g [†]	< LOQ		mg/28.5g	0.950	12/03/19	J AOAC 2015 V98-6	
CBN per 28.5g	2.76		mg/28.5g	0.950	12/03/19	J AOAC 2015 V98-6	
Δ8-THC per 28.5g [†]	< LOQ		mg/28.5g	0.950	12/03/19	J AOAC 2015 V98-6	
Δ9-THC per 28.5g	11.1		mg/28.5g	0.950	12/03/19	J AOAC 2015 V98-6	
THC-A per 28.5g	< LOQ		mg/28.5g	0.950	12/03/19	J AOAC 2015 V98-6	
THC-Total per 28.5g	11.4		mg/28.5g	1.78	12/03/19	J AOAC 2015 V98-6	
THCV per 28.5g [†]	< LOQ		mg/28.5g	0.950	12/03/19	J AOAC 2015 V98-6	
THCV-A per 28.5g [†]	< LOQ		mg/28.5g	0.950	12/03/19	J AOAC 2015 V98-6	
THCV-Total per 28.5g [†]	< LOQ		mg/28.5g	1.77	12/03/19	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



Healthy Roots
Our Roots Run Deep

Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record 19-014362

ORELAP ID: OR100028

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

Analysis Requested		Purchase Order Number:	
		Project Number:	
		Project Name:	
		<input type="checkbox"/> Report Instructions: <input type="checkbox"/> Send to State - METRC <input type="checkbox"/> Email Final Results: <input type="checkbox"/> Fax Final Results <input type="checkbox"/> Cash/Check/CC/Net 30 Other:	
Client Sample Identification	Date/Time Collected	Sample Type	Weight
0031 Berry			28.5
0032 Berry			28.5
0035 MCT/CBD			1gr.

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
Turnaround time: Ask for availability <input type="checkbox"/> Standard (5 day) <input type="checkbox"/> Rush (3-4 day) (1.5x Standard) <input type="checkbox"/> Priority Rush (2 day) (2x Standard)	Jan Mendez	11-25-19	2:15	KMG	11/25/19	14:15	Client Alias: Order Number: Proper Container: Sample Condition: Temperature: 19.3 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

Revision: 3.00 Control#: CF023
Effective 05/22/2019 Revised 05/22/2019
www.pixislabs.com
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: 1910948**
Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.00971	0.01	%	97.1	85.0 - 115	Acceptable	
CBDV	0.00946	0.01	%	94.6	85.0 - 115	Acceptable	
CBD-A	0.00907	0.01	%	90.7	85.0 - 115	Acceptable	
CBG-A	0.00970	0.01	%	97.0	85.0 - 115	Acceptable	
CBG	0.00962	0.01	%	96.2	85.0 - 115	Acceptable	
CBD	0.00941	0.01	%	94.1	85.0 - 115	Acceptable	
THCV	0.00984	0.01	%	98.4	85.0 - 115	Acceptable	
THCVA	0.00966	0.01	%	96.6	85.0 - 115	Acceptable	
CBN	0.00942	0.01	%	94.2	85.0 - 115	Acceptable	
THC	0.00977	0.01	%	97.7	85.0 - 115	Acceptable	
D8THC	0.00935	0.01	%	93.5	85.0 - 115	Acceptable	
CBL	0.00962	0.01	%	96.2	85.0 - 115	Acceptable	
CBC	0.0103	0.01	%	103	85.0 - 115	Acceptable	
THCA	0.00943	0.01	%	94.3	85.0 - 115	Acceptable	
CBCA	0.00977	0.01	%	97.7	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: 1910948			
Sample Duplicate					Sample ID: 19-014069-0001-01			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0181	0.0182	0.003	%	0.429	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.00109	0.00113	0.003	%	3.01	< 20	Acceptable	
CBD	3.03	2.84	0.003	%	6.62	< 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	0.00734	0.00748	0.003	%	1.99	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0308	0.0312	0.003	%	1.32	< 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.