



Customer: Healthy Roots
Product identity: #30 200 pet
Client/Metric ID: .
Laboratory ID: 19-015675-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g 201 mg/28.5g	
CBC†	0.0939		%			
CBD	0.701		%			
CBDV†	0.00863		%		THC-Total per 28.5g 19.4 mg/28.5g	
CBG†	0.0117		%		(Reported in milligrams per serving)	
CBN	0.00425		%			
Δ9-THC	0.0679		%			
THCV†	0.00478		%			
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g†	26.8		mg/28.5g			
CBD per 28.5g	200		mg/28.5g			
CBDV per 28.5g†	2.46		mg/28.5g			
CBG per 28.5g†	3.33		mg/28.5g			
CBN per 28.5g	1.21		mg/28.5g			
Δ9-THC per 28.5g	19.4		mg/28.5g			
THCV per 28.5g†	1.36		mg/28.5g			



Customer: Healthy Roots

Product identity: #30 200 pet

Client/Metric ID: .

Sample Date:

Laboratory ID: 19-015675-0001

Relinquished by: Liz Merritt

Temp: 19.8 °C

Serving Size #1: 28.5 g

Sample Results

Potency		Batch: 1911812					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC [†]	0.0939		%	0.0032	12/31/19	J AOAC 2015 V98-6	
CBC-A [†]	< LOQ		%	0.0032	12/31/19	J AOAC 2015 V98-6	
CBC-Total [†]	0.0939		%	0.0061	12/31/19	J AOAC 2015 V98-6	
CBD	0.701		%	0.0032	12/31/19	J AOAC 2015 V98-6	
CBD-A	< LOQ		%	0.0032	12/31/19	J AOAC 2015 V98-6	
CBD-Total	0.704		%	0.0061	12/31/19	J AOAC 2015 V98-6	
CBDV [†]	0.00863		%	0.0032	12/31/19	J AOAC 2015 V98-6	
CBDV-A [†]	< LOQ		%	0.0032	12/31/19	J AOAC 2015 V98-6	
CBDV-Total [†]	0.00863		%	0.0060	12/31/19	J AOAC 2015 V98-6	
CBG [†]	0.0117		%	0.0032	12/31/19	J AOAC 2015 V98-6	
CBG-A [†]	< LOQ		%	0.0032	12/31/19	J AOAC 2015 V98-6	
CBG-Total [†]	0.0117		%	0.0060	12/31/19	J AOAC 2015 V98-6	
CBL [†]	< LOQ		%	0.0032	12/31/19	J AOAC 2015 V98-6	
CBN	0.00425		%	0.0032	12/31/19	J AOAC 2015 V98-6	
Δ8-THC [†]	< LOQ		%	0.0032	12/31/19	J AOAC 2015 V98-6	
Δ9-THC	0.0679		%	0.0032	12/31/19	J AOAC 2015 V98-6	
THC-A	< LOQ		%	0.0032	12/31/19	J AOAC 2015 V98-6	
THC-Total	0.0679		%	0.0061	12/31/19	J AOAC 2015 V98-6	
THCV [†]	0.00478		%	0.0032	12/31/19	J AOAC 2015 V98-6	
THCV-A [†]	< LOQ		%	0.0032	12/31/19	J AOAC 2015 V98-6	
THCV-Total [†]	< LOQ		%	0.0060	12/31/19	J AOAC 2015 V98-6	

Potency per 28.5g		Batch: 1911812					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 28.5g [†]	26.8		mg/28.5g	0.950	12/31/19	J AOAC 2015 V98-6	
CBC-A per 28.5g [†]	< LOQ		mg/28.5g	0.950	12/31/19	J AOAC 2015 V98-6	
CBC-Total per 28.5g [†]	26.8		mg/28.5g	1.78	12/31/19	J AOAC 2015 V98-6	
CBD per 28.5g	200		mg/28.5g	0.950	12/31/19	J AOAC 2015 V98-6	
CBD-A per 28.5g	< LOQ		mg/28.5g	0.950	12/31/19	J AOAC 2015 V98-6	
CBD-Total per 28.5g	201		mg/28.5g	1.78	12/31/19	J AOAC 2015 V98-6	
CBDV per 28.5g [†]	2.46		mg/28.5g	0.950	12/31/19	J AOAC 2015 V98-6	



Potency per 28.5g

Batch: 1911812

Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBDV-A per 28.5g [†]	< LOQ		mg/28.5g	0.950	12/31/19	J AOAC 2015 V98-6	
CBDV-Total per 28.5g [†]	2.46		mg/28.5g	1.77	12/31/19	J AOAC 2015 V98-6	
CBG per 28.5g [†]	3.33		mg/28.5g	0.950	12/31/19	J AOAC 2015 V98-6	
CBG-A per 28.5g [†]	< LOQ		mg/28.5g	0.950	12/31/19	J AOAC 2015 V98-6	
CBG-Total per 28.5g [†]	3.33		mg/28.5g	1.78	12/31/19	J AOAC 2015 V98-6	
CBL per 28.5g [†]	< LOQ		mg/28.5g	0.950	12/31/19	J AOAC 2015 V98-6	
CBN per 28.5g	1.21		mg/28.5g	0.950	12/31/19	J AOAC 2015 V98-6	
Δ8-THC per 28.5g [†]	< LOQ		mg/28.5g	0.950	12/31/19	J AOAC 2015 V98-6	
Δ9-THC per 28.5g	19.4		mg/28.5g	0.950	12/31/19	J AOAC 2015 V98-6	
THC-A per 28.5g	< LOQ		mg/28.5g	0.950	12/31/19	J AOAC 2015 V98-6	
THC-Total per 28.5g	19.4		mg/28.5g	1.78	12/31/19	J AOAC 2015 V98-6	
THCV per 28.5g [†]	1.36		mg/28.5g	0.950	12/31/19	J AOAC 2015 V98-6	
THCV-A per 28.5g [†]	< LOQ		mg/28.5g	0.950	12/31/19	J AOAC 2015 V98-6	
THCV-Total per 28.5g [†]	< LOQ		mg/28.5g	1.77	12/31/19	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



HEALTHYROOTS 19-015675



IS Labs
Tentamus Company

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Order Number:

Number:

Project Name:

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

Other:

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

Client Sample Identification		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: Proxide Value + Free Fatty Acids	Sample Type	Weight	Serving size for edibles	C Healthy Roots ID	Report in mg/gr and % (percentage)
1	#30 200Pet				✓														
	500Pet													✓					
2	# 40 root butter				✓												23gr		
3	# 45 root butter				✓												27gr		
4	# 46 root butter				✓												25gr		
5	# 47 root butter				✓												23gr		

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)	LR Merritt	12/23/19	2:35	MJ	12-23-19	14:35	Client Alias: Order Number: Proper Container: Sample Condition: Temperature: 19.8 Shipped Via: client Evidence of cooling: #No

*CFL see Job # 19-015678

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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gm 12-23-19


 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: 1911812**
Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.00965	0.01	%	96.5	85.0 - 115	Acceptable	
CBDV	0.00978	0.01	%	97.8	85.0 - 115	Acceptable	
CBD-A	0.00951	0.01	%	95.1	85.0 - 115	Acceptable	
CBG-A	0.00969	0.01	%	96.9	85.0 - 115	Acceptable	
CBG	0.00977	0.01	%	97.7	85.0 - 115	Acceptable	
CBD	0.00976	0.01	%	97.6	85.0 - 115	Acceptable	
THCV	0.00965	0.01	%	96.5	85.0 - 115	Acceptable	
THCVA	0.00938	0.01	%	93.8	85.0 - 115	Acceptable	
CBN	0.00993	0.01	%	99.3	85.0 - 115	Acceptable	
THC	0.00980	0.01	%	98.0	85.0 - 115	Acceptable	
D8THC	0.00983	0.01	%	98.3	85.0 - 115	Acceptable	
CBL	0.00911	0.01	%	91.1	85.0 - 115	Acceptable	
CBC	0.00976	0.01	%	97.6	85.0 - 115	Acceptable	
THCA	0.00946	0.01	%	94.6	85.0 - 115	Acceptable	
CBCA	0.00952	0.01	%	95.2	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: 1911812				
Sample Duplicate				Sample ID: 19-015641-0001				
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0332	0.0330	0.003	%	0.639	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0973	0.0970	0.003	%	0.315	< 20	Acceptable	
CBD	5.51	5.54	0.003	%	0.566	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.00589	0.00587	0.003	%	0.379	< 20	Acceptable	
THC	0.188	0.187	0.003	%	0.456	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.306	0.306	0.003	%	0.165	< 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.