



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



Report Number: 20-012667/D02.R00
Report Date: 11/19/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/17/20 17:00

Customer: Healthy Roots
Product identity: #111 800 Pet
Client/Metric ID: .
Laboratory ID: 20-012667-0002

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g	801 mg/28.5g
CBC	0.0761		%			
CBD	2.81		%			
CBDV [†]	0.0153		%		THC-Total per 28.5g	35.1 mg/28.5g
CBG [†]	0.0225		%			
CBN	0.00763		%			
Δ9-THC	0.123		%			(Reported in milligrams per serving)
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g	21.7		mg/28.5g			
CBD per 28.5g	801		mg/28.5g			
CBDV per 28.5g	4.36		mg/28.5g			
CBG per 28.5g	6.41		mg/28.5g			
CBN per 28.5g	2.17		mg/28.5g			
Δ9-THC per 28.5g	35.1		mg/28.5g			



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Customer: Healthy Roots

Product identity: #111 800 Pet
Client/Metric ID: .
Sample Date:
Laboratory ID: 20-012667-0002
Temp: 14.8 °C
Serving Size #1: 28.5 g

Sample Results

Potency Method J AOAC 2015 V98-6 (mod) Batch: 2009707 Analyze: 11/18/20 9:46:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0761		%	0.0032	
CBC-A [†]	< LOQ		%	0.0032	
CBC-Total [†]	0.0761		%	0.0061	
CBD	2.81		%	0.0325	
CBD-A	< LOQ		%	0.0032	
CBD-Total	2.81		%	0.0353	
CBDV [†]	0.0153		%	0.0032	
CBDV-A [†]	< LOQ		%	0.0032	
CBDV-Total [†]	0.0153		%	0.0061	
CBG [†]	0.0225		%	0.0032	
CBG-A [†]	< LOQ		%	0.0032	
CBG-Total	0.0225		%	0.0061	
CBL [†]	< LOQ		%	0.0032	
CBN	0.00763		%	0.0032	
Δ8-THC [†]	< LOQ		%	0.0032	
Δ9-THC	0.123		%	0.0032	
THC-A	< LOQ		%	0.0032	
THC-Total	0.123		%	0.0061	
THCV [†]	< LOQ		%	0.0032	
THCV-A [†]	< LOQ		%	0.0032	
THCV-Total [†]	< LOQ		%	0.0061	
Total Cannabinoids[†]	3.05		%		

Potency per 28.5g Method J AOAC 2015 V98-6 (mod) Batch: 2009707 Analyze: 11/18/20 9:46:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g	21.7		mg/28.5g	0.926	
CBC-A per 28.5g	< LOQ		mg/28.5g	0.926	
CBC-Total per 28.5g	21.7		mg/28.5g	1.74	
CBD per 28.5g	801		mg/28.5g	9.26	
CBD-A per 28.5g	< LOQ		mg/28.5g	0.926	
CBD-Total per 28.5g	801		mg/28.5g	10.1	
CBDV per 28.5g	4.36		mg/28.5g	0.926	
CBDV-A per 28.5g	< LOQ		mg/28.5g	0.926	
CBDV-Total per 28.5g	4.36		mg/28.5g	1.73	



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Potency per 28.5g					
Method J AOAC 2015 V98-6 (mod) Batch: 2009707 Analyze: 11/18/20 9:46:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBG per 28.5g	6.41		mg/28.5g	0.926	
CBG-A per 28.5g	< LOQ		mg/28.5g	0.926	
CBG-Total per 28.5g	6.41		mg/28.5g	1.73	
CBL per 28.5g	< LOQ		mg/28.5g	0.926	
CBN per 28.5g	2.17		mg/28.5g	0.926	
Δ 8-THC per 28.5g	< LOQ		mg/28.5g	0.926	
Δ 9-THC per 28.5g	35.1		mg/28.5g	0.926	
THC-A per 28.5g	< LOQ		mg/28.5g	0.926	
THC-Total per 28.5g	35.1		mg/28.5g	1.74	
THCV per 28.5g	< LOQ		mg/28.5g	0.926	
THCV-A per 28.5g	< LOQ		mg/28.5g	0.926	
THCV-Total per 28.5g	< LOQ		mg/28.5g	1.74	
Total Cannabinoids 28.5g[†]	871		mg/28.5g		



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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

g = Gram

mg/28.5g = Milligram per 28.5g

% = Percentage of sample

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

Approved Signatory

Derrick Tanner
General Manager



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New Retest for 20-012135

CHAIN OF CUSTODY
Company: Healthy Roots
Contact: Liz Merritt
Address: 14325 NE Airport Way, #113
Portland, OR 97230
Email: Healthyrootshemp@gmail.com
Phone: 503-496-2329
License: AG-L 1052211FP

-1794 Cannabis Chain of Custody Reco

HEALTHYROOTS 20-012667

PIXIS Labs
A Tentamus Company

D: 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

Other:

City, State, Zip:

Email:

Phone:

Fax:

Billing (if dif.)

Processor's

License:

Client Sample Identification Date/Time Collected

Pesticides - OR 59 compounds

Pesticide Multi-Residue - 379 com

Potency

Residual Solvents

Water Activity

Moisture

Terpenes

Micro: Yeast and Mold

Micro: E. Coli and Total Coliform

Heavy Metals

Mycotoxins

Other

Healthy Roots

Sample Type

Weight

Serving size for edibles

Healthy Roots

D

Report in mg/gr and % (percentage)

Collected By:

Relinquished By:

Date

Time

Received by:

Date

Time

Lab Use Only:

Client Alias:

Order Number:

Proper Container

Sample Condition

Temperature:

Shipped Via:

Evidence of cooling:

Turnaround time:

Ask for availability

☐ Standard (5 day)

☐ Rush (3-4 day)

(1.5x Standard)

☐ Priority Rush (2 day)

(2x Standard)

Jasen M

11/17/20

4:00

gmv

11-17

11:00

Client Alias:

Order Number:

Proper Container

Sample Condition

Temperature:

Shipped Via:

Evidence of cooling:

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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JS 11/18/20



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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: 2009707										
Laboratory Control Sample										
Analyte	Result		Spike	Units	% Rec	Limits			Evaluation	Notes
CBDV-A	0.01000		0.01	%	100.0	85.0 - 115			Acceptable	
CBDV	0.0104		0.01	%	104	85.0 - 115			Acceptable	
CBD-A	0.0102		0.01	%	102	85.0 - 115			Acceptable	
CBG-A	0.0101		0.01	%	101	85.0 - 115			Acceptable	
CBG	0.0102		0.01	%	102	85.0 - 115			Acceptable	
CBD	0.00988		0.01	%	98.8	85.0 - 115			Acceptable	
THCV	0.0102		0.01	%	102	85.0 - 115			Acceptable	
THCVA	0.00987		0.01	%	98.7	85.0 - 115			Acceptable	
CBN	0.0102		0.01	%	102	85.0 - 115			Acceptable	
THC	0.0101		0.01	%	101	85.0 - 115			Acceptable	
D8THC	0.0101		0.01	%	101	85.0 - 115			Acceptable	
CBL	0.0101		0.01	%	101	85.0 - 115			Acceptable	
CBC	0.0108		0.01	%	108	85.0 - 115			Acceptable	
THCA	0.0101		0.01	%	101	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



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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: 2009707		
Sample Duplicate						Sample ID: 20-012628-0001		
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0147	0.0143	0.003	%	2.61	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0138	0.0143	0.003	%	3.56	< 20	Acceptable	
CBD	1.62	1.60	0.003	%	1.52	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.0497	0.0474	0.003	%	4.68	< 20	Acceptable	
THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
D8THC	0.00483	0.00467	0.003	%	3.38	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 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.