



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



Report Number: 21-003357/D03.R02
Report Date: 04/07/2021
ORELAP#: OR100028
Purchase Order:
Received: 03/29/21 15:05

This is an amended version of report# 21-003357/D03.R01.
Reason: Report amended to update the Limits of Quantitation.

Customer: Healthy Roots
Product identity: 138-V3-1000
Client/Metric ID: .
Laboratory ID: 21-003357-0001
Sample Date: 01/01/01

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g	999 mg/28.5g
CBC	0.158		%			
CBC-A†	0.0414		%			
CBD	3.03		%		THC-Total per 28.5g	11.2 mg/28.5g
CBD-A	0.542		%			
CBDV†	0.0406		%			
CBDV-A†	0.0154		%			
CBG†	0.0182		%			
CBG-A†	0.00939		%			
Δ9-THC	0.0394		%			
					(Reported in milligrams per serving)	
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g†	45.0		mg/28.5g			
CBC-A per 28.5g†	11.8		mg/28.5g			
CBD per 28.5g	864		mg/28.5g			
CBD-A per 28.5g	154		mg/28.5g			
CBDV per 28.5g†	11.6		mg/28.5g			
CBDV-A per 28.5g†	4.39		mg/28.5g			
CBG per 28.5g†	5.19		mg/28.5g			
CBG-A per 28.5g†	2.68		mg/28.5g			
Δ9-THC per 28.5g	11.2		mg/28.5g			



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Customer: Healthy Roots

Product identity: 138-V3-1000
Client/Metric ID: .
Sample Date: 01/01/01
Laboratory ID: 21-003357-0001
Evidence of Cooling: No
Temp: 20.6 °C
Relinquished by: Client
Serving Size #1: 28.5 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2103084	Analyze: 4/6/21 5:45:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.158		%	0.0032	
CBC-A†	0.0414		%	0.0032	
CBC-Total†	0.194		%	0.0061	
CBD	3.03		%	0.0325	
CBD-A	0.542		%	0.0032	
CBD-Total	3.51		%	0.0353	
CBDV†	0.0406		%	0.0032	
CBDV-A†	0.0154		%	0.0032	
CBDV-Total†	0.0539		%	0.0061	
CBG†	0.0182		%	0.0032	
CBG-A†	0.00939		%	0.0032	
CBG-Total	0.0264		%	0.0061	
CBL†	< LOQ		%	0.0032	
CBN	< LOQ		%	0.0032	
Δ8-THC†	< LOQ		%	0.0032	
Δ9-THC	0.0394		%	0.0032	
THC-A	< LOQ		%	0.0032	
THC-Total	0.0394		%	0.0061	
THCV†	< LOQ		%	0.0032	
THCV-A†	< LOQ		%	0.0032	
THCV-Total†	< LOQ		%	0.0061	

Potency per 28.5g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2103084	Analyze: 4/6/21 5:45:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g†	45.0		mg/28.5g	0.925	
CBC-A per 28.5g†	11.8		mg/28.5g	0.925	
CBC-Total per 28.5g†	55.4		mg/28.5g	1.74	
CBD per 28.5g	864		mg/28.5g	9.25	
CBD-A per 28.5g	154		mg/28.5g	0.925	
CBD-Total per 28.5g	999		mg/28.5g	10.1	
CBDV per 28.5g†	11.6		mg/28.5g	0.925	
CBDV-A per 28.5g†	4.39		mg/28.5g	0.925	



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Potency per 28.5g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2103084 Analyze: 4/6/21 5:45:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBDV-Total per 28.5g [†]	15.4		mg/28.5g	1.73	
CBG per 28.5g [†]	5.19		mg/28.5g	0.925	
CBG-A per 28.5g [†]	2.68		mg/28.5g	0.925	
CBG-Total per 28.5g [†]	7.51		mg/28.5g	1.73	
CBL per 28.5g [†]	< LOQ		mg/28.5g	0.925	
CBN per 28.5g	< LOQ		mg/28.5g	0.925	
Δ8-THC per 28.5g [†]	< LOQ		mg/28.5g	0.925	
Δ9-THC per 28.5g	11.2		mg/28.5g	0.925	
THC-A per 28.5g	< LOQ		mg/28.5g	0.925	
THC-Total per 28.5g	11.2		mg/28.5g	1.74	
THCV per 28.5g [†]	< LOQ		mg/28.5g	0.925	
THCV-A per 28.5g [†]	< LOQ		mg/28.5g	0.925	
THCV-Total per 28.5g [†]	< LOQ		mg/28.5g	1.74	



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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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HEALTHYROOTS 21-003357



PIXIS Labs
A Tentamus Company

AP 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

Other:

CHAIN OF CUSTODY

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

r Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Re

Analysis Request

Healthy Roots

Client Sample Identification		Date/Time Collected	Pesticides – OR 59 compounds												Sample Type	Weight	Serving size for edibles	ID
			Pesticide Multi-Residue – 379 compounds															
			Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: <i>E. Coli</i> and Total Coliform	Heavy Metals	Mycotoxins	Other						
138-V3-1000			X											1gr				
139-V3-1000			X											1gr				

Healthy Roots
% (percentage)
Report in
mg/gr
and

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 checked="" type="checkbox"/> Rush (3-4 day) (1.5x Standard) <input type="checkbox"/> Priority Rush (2 day) (2x Standard)	Liam M	3-29-21	3:00	Jmw	3-29-21	15:05	Client Alias: Order Number: Proper Container Sample Condition Temperature: 20.6 Shipped Via: client Evidence of cooling: <input type="checkbox"/> No

* Updated to rush per email from client. JS 3/30/21

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

Page 1 of 2
JS 3/30/21



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Received: 03/29/21 15:05

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: 2103084					
Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDV-A	0.0100	0.01	%	100	85.0	- 115	Acceptable		
CBDV	0.0100	0.01	%	100	85.0	- 115	Acceptable		
CBD-A	0.00983	0.01	%	98.3	85.0	- 115	Acceptable		
CBG-A	0.00985	0.01	%	98.5	85.0	- 115	Acceptable		
CBG	0.0101	0.01	%	101	85.0	- 115	Acceptable		
CBD	0.00977	0.01	%	97.7	85.0	- 115	Acceptable		
THCV	0.0101	0.01	%	101	85.0	- 115	Acceptable		
THCVA	0.00952	0.01	%	95.2	85.0	- 115	Acceptable		
CBN	0.0105	0.01	%	105	85.0	- 115	Acceptable		
THC	0.0100	0.01	%	100	85.0	- 115	Acceptable		
D8THC	0.00998	0.01	%	99.8	85.0	- 115	Acceptable		
CBL	0.00916	0.01	%	91.6	85.0	- 115	Acceptable		
CBC	0.0104	0.01	%	104	85.0	- 115	Acceptable		
THCA	0.00984	0.01	%	98.4	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: 2103084			
Sample Duplicate					Sample ID: 21-003357-0001-01			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	0.0154	0.0154	0.003	%	0.122	< 20	Acceptable	
CBDV	0.0406	0.0405	0.003	%	0.287	< 20	Acceptable	
CBD-A	0.516	0.517	0.003	%	0.129	< 20	Acceptable	
CBG-A	0.00939	0.00932	0.003	%	0.737	< 20	Acceptable	
CBG	0.0182	0.0181	0.003	%	0.772	< 20	Acceptable	
CBD	2.94	2.73	0.003	%	7.51	< 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	0.0394	0.0395	0.003	%	0.279	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.158	0.158	0.003	%	0.337	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	0.0414	0.0464	0.003	%	11.5	< 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.