



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



Report Number: 20-002839/D03.R00
Report Date: 03/18/2020
ORELAP#: OR100028
Purchase Order:
Received: 03/11/20 11:55

Customer: Healthy Roots
Product identity: 1000 Natural #70
Client/Metric ID: .
Laboratory ID: 20-002839-0003

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g	966 mg/28.5g
CBC	0.206		%			
CBC-A†	0.0326		%			
CBD	3.04		%		THC-Total per 28.5g	12.7 mg/28.5g
CBD-A	0.397		%		(Reported in milligrams per serving)	
CBDV†	0.0395		%			
CBDV-A†	0.0125		%			
CBG†	0.0207		%			
CBG-A†	0.00841		%			
Δ9-THC	0.0445		%			
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g	58.7		mg/28.5g			
CBC-A per 28.5g	9.29		mg/28.5g			
CBD per 28.5g	866		mg/28.5g			
CBD-A per 28.5g	113		mg/28.5g			
CBDV per 28.5g	11.3		mg/28.5g			
CBDV-A per 28.5g	3.56		mg/28.5g			
CBG per 28.5g	5.90		mg/28.5g			
CBG-A per 28.5g	2.40		mg/28.5g			
Δ9-THC per 28.5g	12.7		mg/28.5g			



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Customer: Healthy Roots

Product identity: 1000 Natural #70

Client/Metric ID: .

Sample Date:

Laboratory ID: 20-002839-0003

Relinquished by: Liz Merritt

Temp: 15.4 °C

Serving Size #1: 28.5 g

Sample Results

Potency	Method J AOAC 2015 V98-6		Batch: 2002478		Analyze: 1/1/70 12:00:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.206		%	0.0032	
CBC-A†	0.0326		%	0.0032	
CBC-Total†	0.235		%	0.0060	
CBD	3.04		%	0.0319	
CBD-A	0.397		%	0.0032	
CBD-Total	3.39		%	0.0347	
CBDV†	0.0395		%	0.0032	
CBDV-A†	0.0125		%	0.0032	
CBDV-Total†	0.0503		%	0.0060	
CBG†	0.0207		%	0.0032	
CBG-A†	0.00841		%	0.0032	
CBG-Total	0.0281		%	0.0060	
CBL†	< LOQ		%	0.0032	
CBN	< LOQ		%	0.0032	
Δ8-THC†	< LOQ		%	0.0032	
Δ9-THC	0.0445		%	0.0032	
THC-A	< LOQ		%	0.0032	
THC-Total	0.0445		%	0.0060	
THCV†	< LOQ		%	0.0032	
THCV-A†	< LOQ		%	0.0032	
THCV-Total†	< LOQ		%	0.0060	
Total Cannabinoids†	3.80		%		

Potency per 28.5g	Method J AOAC 2015 V98-6		Batch: 2002478		Analyze: 1/1/70 12:00:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g	58.7		mg/28.5g	0.910	
CBC-A per 28.5g	9.29		mg/28.5g	0.910	
CBC-Total per 28.5g	66.9		mg/28.5g	1.71	
CBD per 28.5g	866		mg/28.5g	9.10	
CBD-A per 28.5g	113		mg/28.5g	0.910	
CBD-Total per 28.5g	966		mg/28.5g	9.89	



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Potency per 28.5g		Method J AOAC 2015 V98-6		Batch: 2002478	Analyze: 1/1/70 12:00:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBDV per 28.5g	11.3		mg/28.5g	0.910	
CBDV-A per 28.5g	3.56		mg/28.5g	0.910	
CBDV-Total per 28.5g	14.3		mg/28.5g	1.70	
CBG per 28.5g	5.90		mg/28.5g	0.910	
CBG-A per 28.5g	2.40		mg/28.5g	0.910	
CBG-Total per 28.5g	7.98		mg/28.5g	1.70	
CBL per 28.5g	< LOQ		mg/28.5g	0.910	
CBN per 28.5g	< LOQ		mg/28.5g	0.910	
Δ 8-THC per 28.5g	< LOQ		mg/28.5g	0.910	
Δ 9-THC per 28.5g	12.7		mg/28.5g	0.910	
THC-A per 28.5g	< LOQ		mg/28.5g	0.910	
THC-Total per 28.5g	12.7		mg/28.5g	1.71	
THCV per 28.5g	< LOQ		mg/28.5g	0.910	
THCV-A per 28.5g	< LOQ		mg/28.5g	0.910	
THCV-Total per 28.5g	< LOQ		mg/28.5g	1.71	
Total Cannabinoids 28.5g[†]	1080		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 = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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12423

nd OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

20-002839

PIXIS Labs
A Tentamus Company

ORELAP ID: OR100028

COMPANY		Analysis Requested												Purchase Order Number:		
Contact:														Project Number:		
Address:														Project Name:		
City, State:														<input type="checkbox"/> Report Instructions:		
Email:														<input type="checkbox"/> Send to State - METRC		
Phone:														<input type="checkbox"/> Email Final Results:		
Billing (if Process License):														<input type="checkbox"/> Fax Final Results		
														<input type="checkbox"/> Cash/Check/CC/Net 30		
														Other:		
Client	Sample	Weight	Serving size for edibles	Cr	ID								Report in mg/gr and % (percentage)			
1	250 Mint #71															
2	1000 Horse #69															
3	1000 Natural #70															

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)	W. H. K. R. T.	3/11/20	11:55	J. M. V.	3-11-20	11:55	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
Effective 05/22/2019 Revised 05/22/2019
www.pixislabs.com
www.columbiafoodlab.com

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Received: 03/11/20 11:55

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: 2002478

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.00990	0.01	%	99.0	85.0 - 115	Acceptable	
CBDV	0.0103	0.01	%	103	85.0 - 115	Acceptable	
CBD-A	0.00965	0.01	%	96.5	85.0 - 115	Acceptable	
CBG-A	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBG	0.00979	0.01	%	97.9	85.0 - 115	Acceptable	
CBD	0.00963	0.01	%	96.3	85.0 - 115	Acceptable	
THCV	0.0101	0.01	%	101	85.0 - 115	Acceptable	
THCVA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBN	0.0105	0.01	%	105	85.0 - 115	Acceptable	
THC	0.0105	0.01	%	105	85.0 - 115	Acceptable	
D8THC	0.00959	0.01	%	95.9	85.0 - 115	Acceptable	
CBL	0.0100	0.01	%	100	85.0 - 115	Acceptable	
CBC	0.0102	0.01	%	102	85.0 - 115	Acceptable	
THCA	0.00972	0.01	%	97.2	85.0 - 115	Acceptable	
CBCA	0.00965	0.01	%	96.5	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: 2002478			
Sample Duplicate					Sample ID: 20-002839-0001			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	0.00619	0.00617	0.003	%	0.354	< 20	Acceptable	
CBDV	0.0197	0.0196	0.003	%	0.817	< 20	Acceptable	
CBD-A	0.200	0.200	0.003	%	0.0356	< 20	Acceptable	
CBG-A	0.00367	0.00398	0.003	%	8.24	< 20	Acceptable	
CBG	0.00961	0.0101	0.003	%	5.16	< 20	Acceptable	
CBD	1.50	1.51	0.003	%	0.590	< 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	0.0221	0.0221	0.003	%	0.0767	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.103	0.103	0.003	%	0.160	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	0.0173	0.0173	0.003	%	0.271	< 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.