



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



Report Number: 21-008176/D002.R000
Report Date: 07/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 07/19/21 15:15

Customer: Healthy Roots
Product identity: 156V2, 800 Pet
Client/Metric ID: .
Laboratory ID: 21-008176-0001

Sample Date: 07/19/21

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g	878 mg/28.5g
CBC	0.0841		%			
CBD	3.08		%			
CBDV [†]	0.0170		%		THC-Total per 28.5g	37.6 mg/28.5g
CBE [†]	0.0185		%			
CBG [†]	0.0246		%			
CBN	0.00915		%			
CBT [†]	0.0584		%			
Δ9-THC	0.132		%			
					(Reported in milligrams per serving)	
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g [†]	24.0		mg/28.5g			
CBD per 28.5g	878		mg/28.5g			
CBDV per 28.5g [†]	4.85		mg/28.5g			
CBE per 28.5g [†]	5.27		mg/28.5g			
CBG per 28.5g [†]	7.01		mg/28.5g			
CBN per 28.5g	2.61		mg/28.5g			
CBT per 28.5g [†]	16.6		mg/28.5g			
Δ9-THC per 28.5g	37.6		mg/28.5g			



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Product identity: 156V2, 800 Pet
Client/Metric ID: .
Sample Date: 07/19/21
Laboratory ID: 21-008176-0001
Evidence of Cooling: No
Temp: 30.5°C
Serving Size #1: 28.5 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2106521	Analyze: 7/22/21 3:39:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0841		%	0.0033	
CBC-A†	< LOQ		%	0.0033	
CBC-Total†	0.0841		%	0.0061	
CBD	3.08		%	0.0327	
CBD-A	< LOQ		%	0.0033	
CBD-Total	3.08		%	0.0356	
CBDV†	0.0170		%	0.0033	
CBDV-A†	< LOQ		%	0.0033	
CBDV-Total†	0.0170		%	0.0061	
CBE†	0.0185		%	0.0033	
CBG†	0.0246		%	0.0033	
CBG-A†	< LOQ		%	0.0033	
CBG-Total	0.0246		%	0.0061	
CBL†	< LOQ		%	0.0033	
CBL-A†	< LOQ		%	0.0033	
CBL-Total†	< LOQ		%	0.0061	
CBN	0.00915		%	0.0033	
CBT†	0.0584		%	0.0033	
Δ8-THCV	< LOQ		%	0.0033	
Δ8-THC†	< LOQ		%	0.0033	
Δ9-THC	0.132		%	0.0033	
THC-A	< LOQ		%	0.0033	
THC-Total	0.132		%	0.0061	
THCV†	< LOQ		%	0.0033	
THCV-A†	< LOQ		%	0.0033	
THCV-Total†	< LOQ		%	0.0061	
Total Cannabinoids†	3.42		%		

Potency per 28.5g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2106521	Analyze: 7/22/21 3:39:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g†	24.0		mg/28.5g	0.932	
CBC-A per 28.5g†	< LOQ		mg/28.5g	0.932	
CBC-Total per 28.5g†	24.0		mg/28.5g	1.75	
CBD per 28.5g	878		mg/28.5g	9.32	



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Potency per 28.5g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2106521 Analyze: 7/22/21 3:39:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBD-A per 28.5g	< LOQ		mg/28.5g	0.932	
CBD-Total per 28.5g	878		mg/28.5g	10.1	
CBDV per 28.5g [†]	4.85		mg/28.5g	0.932	
CBDV-A per 28.5g [†]	< LOQ		mg/28.5g	0.932	
CBDV-Total per 28.5g [†]	4.85		mg/28.5g	1.74	
CBE per 28.5g [†]	5.27		mg/28.5g	0.932	
CBG per 28.5g [†]	7.01		mg/28.5g	0.932	
CBG-A per 28.5g [†]	< LOQ		mg/28.5g	0.932	
CBG-Total per 28.5g [†]	7.01		mg/28.5g	1.74	
CBL per 28.5g [†]	< LOQ		mg/28.5g	0.932	
CBL-A per 28.5g [†]	< LOQ		mg/28.5g	0.932	
CBL-Total per 28.5g [†]	< LOQ		mg/28.5g	1.75	
CBN per 28.5g	2.61		mg/28.5g	0.932	
CBT per 28.5g [†]	16.6		mg/28.5g	0.932	
Δ8-THCV per 28.5g [†]	< LOQ		mg/28.5g	0.932	
Δ8-THC per 28.5g [†]	< LOQ		mg/28.5g	0.932	
Δ9-THC per 28.5g	37.6		mg/28.5g	0.932	
exo-THC per 28.5g [†]	< LOQ		mg/28.5g	0.932	
THC-A per 28.5g	< LOQ		mg/28.5g	0.932	
THC-Total per 28.5g	37.6		mg/28.5g	1.75	
THCV per 28.5g [†]	< LOQ		mg/28.5g	0.932	
THCV-A per 28.5g [†]	< LOQ		mg/28.5g	0.932	
THCV-Total per 28.5g [†]	< LOQ		mg/28.5g	1.75	
Total Cannabinoids per 28.5g	976		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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Hemp / Cannabis Usable / Extract / Finished Products
Chain of Custody Record

Revision: 4.00 Control#: CF023 Rev 02/24/2021 Eff: 03/04/2021
ORELAP ID: OR100028

HEALTHYROOTS 21-008176



Healthy Roots

Company:				Analysis Requested										PO Number:					
CHAIN OF CUSTODY														Project Number:					
Company: Healthy Roots														Project Name:					
Contact: Liz Merritt														Custom Reporting:					
Address: 14325 NE Airport Way, #113														Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other:					
Portland, OR 97230														Turnaround time: <input type="checkbox"/> 5 Business Day Standard Turnaround					
Email: Healthyrootshemp@gmail.com														<input checked="" type="checkbox"/> 3 Business Day Rush Turnaround*					
Phone: 503-496-2329														<input type="checkbox"/> 2 Business Day Rush Turnaround*					
License: AG-L 1052211FP														*Check for availability					
Billing (if different):				Sampled by:															
Lab ID	Client Sample Identification	Date	Time	Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Sample Type †	Weight (Units)	Comments/Metric ID			
	#156v2, 800 Pet	7/19				✓								T	28.5gr				
	#155v2, 500 Pet					✓								T	28.5gr				
Report in mg/gr and % (percentage)																			
Relinquished By:				Received By:				Date				Time				Lab Use Only:			
Merritt				Flagit Abu				07/19/21				15:15				<input type="checkbox"/> Shipped Via: _____ or <input checked="" type="checkbox"/> Client drop			
																Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): 30.5			
																Sample in good condition: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
																<input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: _____			
																Prelog storage: _____			

† - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms
12423 NE Whitaker Way
Portland, OR 97230
P: (503) 254-1794 | Fax: (503) 254-1452
info@columbiaboratories.com

Page _____ of _____
www.columbiaboratories.com



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Purchase Order:
Received: 07/19/21 15:15

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: 2106521

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.00876	0.01	%	87.6	85.0 - 115	Acceptable	
CBDV	0.00890	0.01	%	89.0	85.0 - 115	Acceptable	
CBE	0.00898	0.01	%	89.8	85.0 - 115	Acceptable	
CBDA	0.00938	0.01	%	93.8	85.0 - 115	Acceptable	
CBGA	0.00881	0.01	%	88.1	85.0 - 115	Acceptable	
CBG	0.00896	0.01	%	89.6	85.0 - 115	Acceptable	
CBD	0.00957	0.01	%	95.7	85.0 - 115	Acceptable	
THCV	0.00888	0.01	%	88.8	85.0 - 115	Acceptable	
d8THCV	0.00904	0.01	%	90.4	85.0 - 115	Acceptable	
THCVA	0.00855	0.01	%	85.5	85.0 - 115	Acceptable	
CBN	0.00957	0.01	%	95.7	85.0 - 115	Acceptable	
exo-THC	0.00862	0.01	%	86.2	85.0 - 115	Acceptable	
d9THC	0.00952	0.01	%	95.2	85.0 - 115	Acceptable	
d8THC	0.00868	0.01	%	86.8	85.0 - 115	Acceptable	
CBL	0.00869	0.01	%	86.9	85.0 - 115	Acceptable	
CBC	0.00898	0.01	%	89.8	85.0 - 115	Acceptable	
THCA	0.00932	0.01	%	93.2	85.0 - 115	Acceptable	
CBCA	0.00872	0.01	%	87.2	85.0 - 115	Acceptable	
CBLA	0.00938	0.01	%	93.8	85.0 - 115	Acceptable	
CBT	0.0101	0.01	%	101	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBDV	<LOQ	0.003	%	< 0.003	Acceptable	
CBE	<LOQ	0.003	%	< 0.003	Acceptable	
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<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	
d8THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	<LOQ	0.003	%	< 0.003	Acceptable	
d9THC	<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	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<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: 2106521								
Sample Duplicate								
Sample ID: 21-008136-0001								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.00547	0.00549	0.003	%	0.328	< 20	Acceptable	
CBE	0.0155	0.0158	0.003	%	1.92	< 20	Acceptable	
CBD A	0.0213	0.0211	0.003	%	0.562	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0155	0.0155	0.003	%	0.402	< 20	Acceptable	
CBD	1.62	1.94	0.003	%	18.01	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.00444	0.00431	0.003	%	3.07	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.0833	0.0817	0.003	%	1.90	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0848	0.0838	0.003	%	1.11	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.0352	0.0428	0.003	%	19.5	< 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.