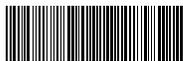




12423 NE Whitaker Way  
 Portland, OR 97230  
 503-254-1794



**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
CBC	0.0841		%	
CBD	3.08		%	
CBDV <sup>†</sup>	0.0170		%	
CBE <sup>†</sup>	0.0185		%	
CBG <sup>†</sup>	0.0246		%	
CBN	0.00915		%	
CBT <sup>†</sup>	0.0584		%	
Δ9-THC	0.132		%	
<b>Analyte per 28.5g</b>	<b>Result</b>	<b>Limits</b>	<b>Units</b>	<b>Status</b>
CBC per 28.5g <sup>†</sup>	24.0		mg/28.5g	
CBD per 28.5g	878		mg/28.5g	
CBDV per 28.5g <sup>†</sup>	4.85		mg/28.5g	
CBE per 28.5g <sup>†</sup>	5.27		mg/28.5g	
CBG per 28.5g <sup>†</sup>	7.01		mg/28.5g	
CBN per 28.5g	2.61		mg/28.5g	
CBT per 28.5g <sup>†</sup>	16.6		mg/28.5g	
Δ9-THC per 28.5g	37.6		mg/28.5g	

CBD-Total per 28.5g 878 mg/28.5g

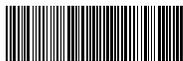
THC-Total per 28.5g 37.6 mg/28.5g

(Reported in milligrams per serving)



12423 NE Whitaker Way  
 Portland, OR 97230  
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**Received:** 07/19/21 15:15



**Customer:** Healthy Roots  
**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 <sup>†</sup>	< LOQ		%	0.0033					
CBC-Total <sup>†</sup>	0.0841		%	0.0061					
CBD	3.08		%	0.0327					
CBD-A	< LOQ		%	0.0033					
CBD-Total	3.08		%	0.0356					
CBDV <sup>†</sup>	0.0170		%	0.0033					
CBDV-A <sup>†</sup>	< LOQ		%	0.0033					
CBDV-Total <sup>†</sup>	0.0170		%	0.0061					
CBE <sup>†</sup>	0.0185		%	0.0033					
CBG <sup>†</sup>	0.0246		%	0.0033					
CBG-A <sup>†</sup>	< LOQ		%	0.0033					
CBG-Total	0.0246		%	0.0061					
CBL <sup>†</sup>	< LOQ		%	0.0033					
CBL-A <sup>†</sup>	< LOQ		%	0.0033					
CBL-Total <sup>†</sup>	< LOQ		%	0.0061					
CBN	0.00915		%	0.0033					
CBT <sup>†</sup>	0.0584		%	0.0033					
Δ8-THCV	< LOQ		%	0.0033					
Δ8-THC <sup>†</sup>	< LOQ		%	0.0033					
Δ9-THC	0.132		%	0.0033					
THC-A	< LOQ		%	0.0033					
THC-Total	0.132		%	0.0061					
THCV <sup>†</sup>	< LOQ		%	0.0033					
THCV-A <sup>†</sup>	< LOQ		%	0.0033					
THCV-Total <sup>†</sup>	< LOQ		%	0.0061					
<b>Total Cannabinoids<sup>†</sup></b>	<b>3.42</b>		<b>%</b>						

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 <sup>†</sup>	24.0		mg/28.5g	0.932					
CBC-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.932					
CBC-Total per 28.5g <sup>†</sup>	24.0		mg/28.5g	1.75					
CBD per 28.5g	878		mg/28.5g	9.32					

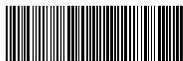
Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0430



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 503-254-1794

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



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 <sup>†</sup>	4.85		mg/28.5g	0.932	
CBDV-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.932	
CBDV-Total per 28.5g <sup>†</sup>	4.85		mg/28.5g	1.74	
CBE per 28.5g <sup>†</sup>	5.27		mg/28.5g	0.932	
CBG per 28.5g <sup>†</sup>	7.01		mg/28.5g	0.932	
CBG-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.932	
CBG-Total per 28.5g <sup>†</sup>	7.01		mg/28.5g	1.74	
CBL per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.932	
CBL-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.932	
CBL-Total per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	1.75	
CBN per 28.5g	2.61		mg/28.5g	0.932	
CBT per 28.5g <sup>†</sup>	16.6		mg/28.5g	0.932	
Δ8-THCV per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.932	
Δ8-THC per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.932	
Δ9-THC per 28.5g	37.6		mg/28.5g	0.932	
exo-THC per 28.5g <sup>†</sup>	< 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 <sup>†</sup>	< LOQ		mg/28.5g	0.932	
THCV-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.932	
THCV-Total per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	1.75	
Total Cannabinoids per 28.5g	976		mg/28.5g		



12423 NE Whitaker Way  
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**Purchase Order:**  
**Received:** 07/19/21 15:15

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



12423 NE Whitaker Way  
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 503-254-1794

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



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: _____ <b>CHAIN OF CUSTODY</b> 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				<b>Analysis Requested</b>										PO Number: _____ Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input type="checkbox"/> 5 Business Day Standard Turnaround <input checked="" type="checkbox"/> 3 Business Day Rush Turnaround* <input type="checkbox"/> 2 Business Day Rush Turnaround* <small>* Check for availability</small>		
Billing (if different): _____				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
Lab ID	Client Sample Identification	Date	Time													
	#156v2, 800 Pet	7/19				✓							T	28.5gr		
	#155v2, 500 Pet					✓							T	28.5gr		
Relinquished By: Merritt Date: 7/19 Time:				Received By: Hagit Abu Date: 07/19/21 Time: 15:15				Lab Use Only: <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 type="checkbox"/> No <input type="checkbox"/> Cash   <input type="checkbox"/> Check   <input type="checkbox"/> CC   <input type="checkbox"/> Net: _____ Prelog storage: _____								

Original: Aerobic Plate Count, S. aureus, Staphylococcus, Pseudomonas

Report in  
 mg/gr  
 and  
 % (percentage)

† - 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  
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 Portland, OR 97230  
 P: (503) 254-1794 | Fax: (503) 254-1452  
 info@columbialaboratories.com  
 Page \_\_\_\_\_ of \_\_\_\_\_  
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Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.  
 Testing in accordance with: OAR 333-007-0430



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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

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**

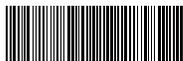
ND - None Detected at or above MRL  
RPD - Relative Percent Difference  
LOQ - Limit of Quantitation

**Units of Measure:**

% - Percent



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

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	
CBDA	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.