



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



**Report Number:** 21-007812/D004.R000  
**Report Date:** 07/16/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 07/09/21 14:45

**Customer:** Healthy Roots  
**Product identity:** #154, 200 Pet  
**Client/Metric ID:** .  
**Laboratory ID:** 21-007812-0003

### Summary

**Potency:**

Analyte	Result	Limits	Units	Status	
CBC	0.0191		%		CBD-Total per 28.5g 193 mg/28.5g
CBD	0.678		%		
CBDV <sup>†</sup>	0.00362		%		THC-Total per 28.5g 8.58 mg/28.5g
CBE <sup>†</sup>	0.00466		%		(Reported in milligrams per serving)
CBG <sup>†</sup>	0.00579		%		
CBT <sup>†</sup>	0.0151		%		
Δ9-THC	0.0301		%		
Analyte per 28.5g	Result	Limits	Units	Status	
CBC per 28.5g <sup>†</sup>	5.44		mg/28.5g		
CBD per 28.5g	193		mg/28.5g		
CBDV per 28.5g <sup>†</sup>	1.03		mg/28.5g		
CBE per 28.5g <sup>†</sup>	1.33		mg/28.5g		
CBG per 28.5g <sup>†</sup>	1.65		mg/28.5g		
CBT per 28.5g <sup>†</sup>	4.30		mg/28.5g		
Δ9-THC per 28.5g	8.58		mg/28.5g		



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**Customer:** Healthy Roots  
**Product identity:** #154, 200 Pet  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 21-007812-0003  
**Evidence of Cooling:** No  
**Temp:** 26.0 °C  
**Relinquished by:** Client  
**Serving Size #1:** 28.5 g

### Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2106235	Analyze: 7/13/21 7:58:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0191		%	0.0033	
CBC-A <sup>†</sup>	< LOQ		%	0.0033	
CBC-Total <sup>†</sup>	0.0191		%	0.0062	
CBD	0.678		%	0.0033	
CBD-A	< LOQ		%	0.0033	
CBD-Total	0.678		%	0.0062	
CBDV <sup>†</sup>	0.00362		%	0.0033	
CBDV-A <sup>†</sup>	< LOQ		%	0.0033	
CBDV-Total <sup>†</sup>	< LOQ		%	0.0062	
CBE <sup>†</sup>	0.00466		%	0.0033	
CBG <sup>†</sup>	0.00579		%	0.0033	
CBG-A <sup>†</sup>	< LOQ		%	0.0033	
CBG-Total	< LOQ		%	0.0062	
CBL <sup>†</sup>	< LOQ		%	0.0033	
CBL-A <sup>†</sup>	< LOQ		%	0.0033	
CBL-Total <sup>†</sup>	< LOQ		%	0.0062	
CBN	< LOQ		%	0.0033	
CBT <sup>†</sup>	0.0151		%	0.0033	
Δ8-THCV	< LOQ		%	0.0033	
Δ8-THC <sup>†</sup>	< LOQ		%	0.0033	
Δ9-THC	0.0301		%	0.0033	
THC-A	< LOQ		%	0.0033	
THC-Total	0.0301		%	0.0062	
THCV <sup>†</sup>	< LOQ		%	0.0033	
THCV-A <sup>†</sup>	< LOQ		%	0.0033	
THCV-Total <sup>†</sup>	< LOQ		%	0.0062	
<b>Total Cannabinoids<sup>†</sup></b>	<b>0.756</b>		%		

Potency per 28.5g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2106235	Analyze: 7/13/21 7:58:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g <sup>†</sup>	5.44		mg/28.5g	0.942	
CBC-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.942	
CBC-Total per 28.5g <sup>†</sup>	5.44		mg/28.5g	1.77	



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Potency per 28.5g **Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2106235 Analyze: 7/13/21 7:58:00 PM**

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 28.5g	193		mg/28.5g	0.942	
CBD-A per 28.5g	< LOQ		mg/28.5g	0.942	
CBD-Total per 28.5g	193		mg/28.5g	1.77	
CBDV per 28.5g <sup>†</sup>	1.03		mg/28.5g	0.942	
CBDV-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.942	
CBDV-Total per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	1.76	
CBE per 28.5g <sup>†</sup>	1.33		mg/28.5g	0.942	
CBG per 28.5g <sup>†</sup>	1.65		mg/28.5g	0.942	
CBG-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.942	
CBG-Total per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	1.76	
CBL per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.942	
CBL-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.942	
CBL-Total per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	1.77	
CBN per 28.5g	< LOQ		mg/28.5g	0.942	
CBT per 28.5g <sup>†</sup>	4.30		mg/28.5g	0.942	
Δ8-THCV per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.942	
Δ8-THC per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.942	
Δ9-THC per 28.5g	8.58		mg/28.5g	0.942	
exo-THC per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.942	
THC-A per 28.5g	< LOQ		mg/28.5g	0.942	
THC-Total per 28.5g	8.58		mg/28.5g	1.77	
THCV per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.942	
THCV-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.942	
THCV-Total per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	1.77	
Total Cannabinoids per 28.5g	216		mg/28.5g		

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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**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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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

<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: <u>21-007812</u> Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input checked="" type="checkbox"/> 5 Business Day Standard Turnaround <input 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 - 375 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Other:	Sample Type †	Weight (Units)	Comments/Metric ID
Lab ID	Client Sample Identification	Date	Time														
	#153, Wilipia	7/9				✓								T	28.5gr	-Reference Lab final # 21-005235-0001  Report in mg/gr and % (percentage)	
	#143v3, Softgel Capsule	7/9				✓								T	.5gr		
	#154, 200 Ret	7/9				✓								T	28.5gr		
	#155, 500 Ret	7/9				✓								T	28.5gr		
	#156, 800 Ret	7/9				✓								T	28.5gr		
Relinquished By: <u>Merritt</u>				Date: <u>7/9/21</u>	Time: _____	Received By: <u>[Signature]</u>				Date: _____	Time: _____	Lab Use Only:					
<input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No - Temp (°C): <u>26.0</u> Sample in good condition: <input checked="" 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: _____																	

† - 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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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: 2106235**

Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.00977	0.01	%	97.7	85.0 - 115	Acceptable	
CBDV	0.00985	0.01	%	98.5	85.0 - 115	Acceptable	
CBE	0.00996	0.01	%	99.6	85.0 - 115	Acceptable	
CBDA	0.00975	0.01	%	97.5	85.0 - 115	Acceptable	
CBGA	0.00965	0.01	%	96.5	85.0 - 115	Acceptable	
CBG	0.00991	0.01	%	99.1	85.0 - 115	Acceptable	
CBD	0.00993	0.01	%	99.3	85.0 - 115	Acceptable	
THCV	0.00986	0.01	%	98.6	85.0 - 115	Acceptable	
d8THCV	0.00993	0.01	%	99.3	85.0 - 115	Acceptable	
THCVA	0.00938	0.01	%	93.8	85.0 - 115	Acceptable	
CBN	0.0104	0.01	%	104	85.0 - 115	Acceptable	
exo-THC	0.00954	0.01	%	95.4	85.0 - 115	Acceptable	
d9THC	0.0103	0.01	%	103	85.0 - 115	Acceptable	
d8THC	0.00973	0.01	%	97.3	85.0 - 115	Acceptable	
CBL	0.00981	0.01	%	98.1	85.0 - 115	Acceptable	
CBC	0.00983	0.01	%	98.3	85.0 - 115	Acceptable	
THCA	0.00944	0.01	%	94.4	85.0 - 115	Acceptable	
CBCA	0.00968	0.01	%	96.8	85.0 - 115	Acceptable	
CBLA	0.0104	0.01	%	104	85.0 - 115	Acceptable	
CBT	0.0109	0.01	%	109	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: 2106235						
Sample Duplicate		Sample ID: 21-005064-0004						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	0.0131	0.0134	0.003	%	2.09	< 20	Acceptable	
CBDV	0.0420	0.0427	0.003	%	1.85	< 20	Acceptable	
CBE	0.0172	0.0190	0.003	%	9.99	< 20	Acceptable	
CBDA	0.403	0.407	0.003	%	1.11	< 20	Acceptable	
CBGA	0.00957	0.0106	0.003	%	10.3	< 20	Acceptable	
CBG	0.0201	0.0216	0.003	%	7.01	< 20	Acceptable	
CBD	2.96	2.85	0.003	%	3.99	< 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	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.0433	0.0439	0.003	%	1.36	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.165	0.166	0.003	%	0.828	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	0.0344	0.0363	0.003	%	5.49	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.0292	0.0287	0.003	%	2.03	< 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.