



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



**Report Number:** 22-003384/D002.R000  
**Report Date:** 03/30/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/24/22 14:10

**Customer:** Healthy Roots  
**Product identity:** #200v1, 800mg Pet  
**Client/Metric ID:** .  
**Laboratory ID:** 22-003384-0001

## Summary

### Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g	835 mg/28.5g
CBC	0.0676		%			
CBD	2.93		%			
CBDV <sup>†</sup>	0.0144		%		THC-Total per 28.5g	28.5 mg/28.5g
CBG <sup>†</sup>	0.0170		%			
CBN	0.00706		%			
CBT <sup>†</sup>	0.0366		%			
Δ9-THC	0.100		%			
					(Reported in milligrams per serving)	
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g <sup>†</sup>	19.3		mg/28.5g			
CBD per 28.5g	835		mg/28.5g			
CBDV per 28.5g <sup>†</sup>	4.10		mg/28.5g			
CBG per 28.5g <sup>†</sup>	4.85		mg/28.5g			
CBN per 28.5g	2.01		mg/28.5g			
CBT per 28.5g <sup>†</sup>	10.4		mg/28.5g			
Δ9-THC per 28.5g	28.5		mg/28.5g			



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**Customer:** Healthy Roots

**Product identity:** #200v1, 800mg Pet  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 22-003384-0001  
**Evidence of Cooling:** No  
**Temp:** 22.8 °C  
**Relinquished by:** Client  
**Serving Size #1:** 28.5 g

### Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2202664	Analyze: 3/28/22 11:09:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0676		%	0.0033	
CBC-A†	< LOQ		%	0.0033	
CBC-Total†	0.0676		%	0.0062	
CBD	2.93		%	0.0330	
CBD-A	< LOQ		%	0.0033	
CBD-Total	2.93		%	0.0359	
CBDV†	0.0144		%	0.0033	
CBDV-A†	< LOQ		%	0.0033	
CBDV-Total†	0.0144		%	0.0062	
CBE†	< LOQ		%	0.0033	
CBG†	0.0170		%	0.0033	
CBG-A†	< LOQ		%	0.0033	
CBG-Total	0.0170		%	0.0062	
CBL†	< LOQ		%	0.0033	
CBL-A†	< LOQ		%	0.0033	
CBL-Total†	< LOQ		%	0.0062	
CBN	0.00706		%	0.0033	
CBT†	0.0366		%	0.0033	
Δ8-THCV	< LOQ		%	0.0033	
Δ8-THC†	< LOQ		%	0.0033	
Δ9-THC	0.100		%	0.0033	
THC-A	< LOQ		%	0.0033	
THC-Total	0.100		%	0.0062	
THCV†	< LOQ		%	0.0033	
THCV-A†	< LOQ		%	0.0033	
THCV-Total†	< LOQ		%	0.0062	
<b>Total Cannabinoids†</b>	<b>3.17</b>		%		

Potency per 28.5g		Method J AOAC 2015 V98-6 (mod)Units mg/se		Batch: 2202664	Analyze: 3/28/22 11:09:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g†	19.3		mg/28.5g	0.940	
CBC-A per 28.5g†	< LOQ		mg/28.5g	0.940	
CBC-Total per 28.5g†	19.3		mg/28.5g	1.76	



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Potency per 28.5g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2202664 Analyze: 3/28/22 11:09:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 28.5g	835		mg/28.5g	9.40	
CBD-A per 28.5g	< LOQ		mg/28.5g	0.940	
CBD-Total per 28.5g	835		mg/28.5g	10.2	
CBDV per 28.5g <sup>†</sup>	4.10		mg/28.5g	0.940	
CBDV-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.940	
CBDV-Total per 28.5g <sup>†</sup>	4.10		mg/28.5g	1.75	
CBE per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.940	
CBG per 28.5g <sup>†</sup>	4.85		mg/28.5g	0.940	
CBG-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.940	
CBG-Total per 28.5g <sup>†</sup>	4.85		mg/28.5g	1.75	
CBL per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.940	
CBL-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.940	
CBL-Total per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	1.76	
CBN per 28.5g	2.01		mg/28.5g	0.940	
CBT per 28.5g <sup>†</sup>	10.4		mg/28.5g	0.940	
Δ8-THCV per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.940	
Δ8-THC per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.940	
Δ9-THC per 28.5g	28.5		mg/28.5g	0.940	
exo-THC per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.940	
THC-A per 28.5g	< LOQ		mg/28.5g	0.940	
THC-Total per 28.5g	28.5		mg/28.5g	1.76	
THCV per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.940	
THCV-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.940	
THCV-Total per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	1.77	
Total Cannabinoids per 28.5g	904		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, CCR title 16-division 42. BCC-section 5723

**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 = g

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

<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>										<b>PO Number:</b> _____ <b>Project Number:</b> _____ <b>Project Name:</b> _____ <b>Custom Reporting:</b> _____ <b>Report to State:</b> <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ <b>Turnaround time:</b> <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* *Check for availability			
Billing (if different): * Please add: Compliance @ Healthyrootshemp.com				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 Aerobic Plate Count, Salmonella, Staphylococcus, Pseudomonas										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	Aerobic Plate Count, Salmonella, Staphylococcus, Pseudomonas	Sample Type †	Weight (Units)	Comments/Metric ID
	#200v1, 800mg Pet	3/24				✓									T	28.5g	
Relinquished By: <u>Merritt</u>				Date: <u>3/24</u>	Time: <u>2pm</u>	Received By: <u>AC</u>				Date: <u>3-24</u>	Time: <u>14:10</u>	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): <u>22.8</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: 1 Document ID: 7148  
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V98-6							
Batch ID: 2202664							
Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.0320	0.033	%	96.0	80.0 - 120	Acceptable	
CBDV	0.0419	0.033	%	126	80.0 - 120	Acceptable	q6
CBE	0.0326	0.033	%	97.9	80.0 - 120	Acceptable	
CBD A	0.0329	0.033	%	98.8	80.0 - 120	Acceptable	
CBGA	0.0317	0.033	%	95.0	80.0 - 120	Acceptable	
CBG	0.0323	0.033	%	97.0	80.0 - 120	Acceptable	
CBD	0.0310	0.033	%	93.1	80.0 - 120	Acceptable	
THCV	0.0333	0.033	%	100.0	80.0 - 120	Acceptable	
d8THCV	0.0335	0.033	%	101	80.0 - 120	Acceptable	
THCVA	0.0313	0.033	%	93.8	80.0 - 120	Acceptable	
CBN	0.0334	0.033	%	100	80.0 - 120	Acceptable	
exo-THC	0.0311	0.033	%	93.2	80.0 - 120	Acceptable	
d9THC	0.0330	0.033	%	98.9	80.0 - 120	Acceptable	
d8THC	0.0344	0.033	%	103	80.0 - 120	Acceptable	
CBL	0.0308	0.033	%	92.3	80.0 - 120	Acceptable	
CBC	0.0348	0.033	%	105	80.0 - 120	Acceptable	
THCA	0.0311	0.033	%	93.2	80.0 - 120	Acceptable	
CBGA	0.0321	0.033	%	96.2	80.0 - 120	Acceptable	
CBLA	0.0315	0.033	%	94.5	80.0 - 120	Acceptable	
CBT	0.0335	0.033	%	100	80.0 - 120	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	
CBD A	< 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	
CBGA	< 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: 1 Document ID: 7148  
Legacy ID: Worksheet Validated 04/20/2021

#### Laboratory Quality Control Results

JAOAC2015 V98-6		Batch ID: 2202664						
Sample Duplicate		Sample ID: 22-003103-0001-01						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0337	0.0344	0.003	%	2.01	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0564	0.0580	0.003	%	2.80	< 20	Acceptable	
CBD	5.30	5.41	0.003	%	1.95	< 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	0.00395	0.00394	0.003	%	0.218	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.145	0.150	0.003	%	3.12	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.125	0.127	0.003	%	1.43	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.204	0.209	0.003	%	2.77	< 20	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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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.