



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



**Report Number:** 23-003644/D003.R000  
**Report Date:** 04/12/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/28/23 14:22

**Customer:** Healthy Roots  
**Product identity:** #267, 250mg Roller bomb  
**Client/Metric ID:** .  
**Laboratory ID:** 23-003644-0002

## Summary

### Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per Serving Size 247 mg/8g
CBC	0.119		%		
CBD	3.04		%		
CBD-A	0.0612		%		THC-Total per Serving Size 12.9 mg/8g
CBDV	0.0116		%		
CBG	0.0335		%		(Reported in milligrams per serving)
CBN	0.00738		%		
CBT	0.0495		%		
Δ9-THC	0.161		%		
Analyte per 8g	Result	Limits	Units	Status	
CBC per 8g	9.52		mg/8g		
CBD per 8g	243		mg/8g		
CBD-A per 8g	4.90		mg/8g		
CBDV per 8g	0.928		mg/8g		
CBG per 8g	2.68		mg/8g		
CBN per 8g	0.590		mg/8g		
CBT per 8g	3.96		mg/8g		
Δ9-THC per 8g	12.9		mg/8g		



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**Customer:** Healthy Roots

**Product identity:** #267, 250mg Roller bomb

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 23-003644-0002

**Evidence of Cooling:** No

**Temp:** 15.6

**Serving Size #1:** 8 g

## Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod)		Units %	Batch: 2306152	Analyze: 3/31/23 12:50:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.119		%	0.00327	
CBC-A	< LOQ		%	0.00327	
CBC-Total	0.119		%	0.00613	
CBD <sup>±</sup>	3.04		%	0.0327	
CBD-A <sup>±</sup>	0.0612		%	0.00327	
CBD-Total	3.09		%	0.0355	
CBDV	0.0116		%	0.00327	
CBDV-A	< LOQ		%	0.00327	
CBDV-Total	0.0116		%	0.00610	
CBE	< LOQ		%	0.00327	
CBG	0.0335		%	0.00327	
CBG-A	< LOQ		%	0.00327	
CBG-Total	0.0335		%	0.00610	
CBL	< LOQ		%	0.00327	
CBL-A	< LOQ		%	0.00327	
CBL-Total	< LOQ		%	0.00613	
CBN	0.00738		%	0.00327	
CBT	0.0495		%	0.00327	
Δ8-THCV	< LOQ		%	0.00327	
Δ10-THC-9R	< LOQ		%	0.00327	
Δ10-THC-9S	< LOQ		%	0.00327	
Δ10-THC-Total	< LOQ		%	0.00653	
Δ8-THC <sup>±</sup>	< LOQ		%	0.00327	
Δ9-THC <sup>±</sup>	0.161		%	0.00327	
exo-THC	< LOQ		%	0.00327	
THC-A <sup>±</sup>	< LOQ		%	0.00327	
THC-Total	0.161		%	0.00613	
THCV	< LOQ		%	0.00327	
THCV-A	< LOQ		%	0.00327	
THCV-Total	< LOQ		%	0.00610	
<b>Total Cannabinoids</b>	<b>3.48</b>		%		



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Potency per 8g      **Method:** J AOAC 2015 V98-6 (mod)      **Units** mg/se **Batch:** 2306152      **Analyze:** 3/31/23 12:50:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 8g	9.52		mg/8g	0.261	
CBC-A per 8g	< LOQ		mg/8g	0.261	
CBC-Total per 8g	9.52		mg/8g	0.490	
CBD per 8g	243		mg/8g	2.61	
CBD-A per 8g	4.90		mg/8g	0.261	
CBD-Total per 8g	247		mg/8g	2.84	
CBDV per 8g	0.928		mg/8g	0.261	
CBDV-A per 8g	< LOQ		mg/8g	0.261	
CBDV-Total per 8g	0.928		mg/8g	0.488	
CBE per 8g	< LOQ		mg/8g	0.261	
CBG per 8g	2.68		mg/8g	0.261	
CBG-A per 8g	< LOQ		mg/8g	0.261	
CBG-Total per 8g	2.68		mg/8g	0.488	
CBL per 8g	< LOQ		mg/8g	0.261	
CBL-A per 8g	< LOQ		mg/8g	0.261	
CBL-Total per 8g	< LOQ		mg/8g	0.490	
CBN per 8g	0.590		mg/8g	0.261	
CBT per 8g	3.96		mg/8g	0.261	
Δ8-THCV per 8g	< LOQ		mg/8g	0.261	
Δ10-THC-9R per 8g	< LOQ		mg/8g	0.261	
Δ10-THC-9S per 8g	< LOQ		mg/8g	0.261	
Δ10-THC-Total per 8g	< LOQ		mg/8g	0.523	
Δ8-THC per 8g	< LOQ		mg/8g	0.261	
Δ9-THC per 8g	12.9		mg/8g	0.261	
exo-THC per 8g	< LOQ		mg/8g	0.261	
THC-A per 8g	< LOQ		mg/8g	0.261	
THC-Total per 8g	12.9		mg/8g	0.490	
THCV per 8g	< LOQ		mg/8g	0.261	
THCV-A per 8g	< LOQ		mg/8g	0.261	
THCV-Total per 8g	< LOQ		mg/8g	0.491	
Total Cannabinoids per 8g	279		mg/8g		

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#### **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.

‡ = TNI accredited analyte.

#### **Units of Measure**

g = g

mg/8g = Milligram per 8g

% = 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

4081

<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				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	Other: Aerobic Plate Count, Salmonella, Staphylococcus, Pseudomonas	Sample Type †	Weight (Units)	Comments/Metric ID
	#266, 1200mg Paw Butter	03/28/23	13:22			✓									T	100g	
	#267, 250mg Roller Bomb	03/28/23	13:22			✓									T	8g	
Relinquished By: Melton, Erica				Date: 03/28/23	Time: 6:22 p	Received By: VFW				Date: 3/28	Time: 14:22	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): 15.6 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  
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P: (503) 254-1794 | Fax: (503) 254-1452  
info@columbiainc.com  
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Revision: 1 Document ID: 7148  
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2306152

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	2	0.0330	0.033	%	98.9	80.0 - 120	Acceptable		
CBDV	2	0.0322	0.033	%	96.5	80.0 - 120	Acceptable		
CBE	2	0.0324	0.033	%	97.1	80.0 - 120	Acceptable		
CBD	1	0.0299	0.031	%	96.6	90.0 - 110	Acceptable		
CBGA	1	0.0249	0.026	%	96.6	80.0 - 120	Acceptable		
CBG	1	0.0305	0.031	%	98.1	80.0 - 120	Acceptable		
CBD	1	0.0263	0.027	%	95.9	90.0 - 110	Acceptable		
THCV	2	0.0334	0.033	%	100	80.0 - 120	Acceptable		
d8THCV	2	0.0324	0.033	%	97.3	80.0 - 120	Acceptable		
THCVA	2	0.0327	0.033	%	98.1	80.0 - 120	Acceptable		
CBN	1	0.0263	0.027	%	97.5	80.0 - 120	Acceptable		
exo-THC	2	0.0315	0.033	%	94.6	80.0 - 120	Acceptable		
d9THC	1	0.0308	0.031	%	98.8	90.0 - 110	Acceptable		
d8THC	1	0.0309	0.031	%	99.1	90.0 - 110	Acceptable		
9S-d10THC	1	0.0308	0.031	%	98.1	80.0 - 120	Acceptable		
CBL	2	0.0332	0.033	%	99.6	80.0 - 120	Acceptable		
9R-d10THC	1	0.0308	0.032	%	96.3	80.0 - 120	Acceptable		
CBC	2	0.0323	0.033	%	97.0	80.0 - 120	Acceptable		
THCA	1	0.0349	0.036	%	97.1	90.0 - 110	Acceptable		
CBGA	2	0.0334	0.033	%	100	80.0 - 120	Acceptable		
CBLA	2	0.0339	0.033	%	102	80.0 - 120	Acceptable		
CBT	2	0.0327	0.033	%	98.1	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	<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	
9S-d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
9R-d10THC	<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

J AOAC 2015 V98-6		Batch ID: 2306152						
Sample Duplicate		Sample ID: 99-004081-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0044	0.0044	0.003	%	0.236	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.0087	0.0087	0.003	%	0.279	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0049	0.0049	0.003	%	0.717	< 20	Acceptable	
CB	1.32	1.33	0.003	%	0.268	< 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	0.0241	0.0232	0.003	%	3.78	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0179	0.0179	0.003	%	0.0564	< 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	0.0075	0.0077	0.003	%	2.79	< 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.