



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



Report Number: 21-010177/D004.R000
Report Date: 09/09/2021
ORELAP#: OR100028
Purchase Order:
Received: 09/01/21 14:00

Customer: Healthy Roots
Product identity: #163 Roller Bomb 250mg
Client/Metric ID: .
Laboratory ID: 21-010177-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBD	3.47		%		CBD-Total per 8g 278 mg/8g
Δ9-THC	0.112		%		
Analyte per 8g	Result	Limits	Units	Status	
CBD per 8g	278		mg/8g		THC-Total per 8g <LOQ
Δ9-THC per 8g	8.96		mg/8g		(Reported in milligrams per serving)



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Customer: Healthy Roots

Product identity: #163 Roller Bomb 250mg
Client/Metric ID: .
Sample Date:
Laboratory ID: 21-010177-0001
Evidence of Cooling: No
Temp: 24.9 °C
Relinquished by: L. Merritt
Serving Size #1: 8 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2107929	Analyze: 9/3/21	4:32:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.0930	
CBC-A†	< LOQ		%	0.0930	
CBC-Total†	< LOQ		%	0.175	
CBD	3.47		%	0.0930	
CBD-A	< LOQ		%	0.0930	
CBD-Total	3.47		%	0.175	
CBDV†	< LOQ		%	0.0930	
CBDV-A†	< LOQ		%	0.0930	
CBDV-Total†	< LOQ		%	0.174	
CBE†	< LOQ		%	0.0930	
CBG†	< LOQ		%	0.0930	
CBG-A†	< LOQ		%	0.0930	
CBG-Total	< LOQ		%	0.174	
CBL†	< LOQ		%	0.0930	
CBL-A†	< LOQ		%	0.0930	
CBL-Total†	< LOQ		%	0.175	
CBN	< LOQ		%	0.0930	
CBT†	< LOQ		%	0.0930	
Δ8-THCV	< LOQ		%	0.0930	
Δ8-THC†	< LOQ		%	0.0930	
Δ9-THC	0.112		%	0.0930	
THC-A	< LOQ		%	0.0930	
THC-Total	< LOQ		%	0.175	
THCV†	< LOQ		%	0.0930	
THCV-A†	< LOQ		%	0.0930	
THCV-Total†	< LOQ		%	0.174	
Total Cannabinoids†	3.58		%		

Potency per 8g	Method J AOAC 2015 V98-6 (mod)		Units mg/se	Batch: 2107929	Analyze: 9/3/21 4:32:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 8g†	< LOQ		mg/8g	0.930	
CBC-A per 8g†	< LOQ		mg/8g	0.930	
CBC-Total per 8g†	< LOQ		mg/8g	1.75	



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Potency per 8g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2107929 Analyze: 9/3/21 4:32:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 8g	278		mg/8g	7.44	
CBD-A per 8g	< LOQ		mg/8g	0.930	
CBD-Total per 8g	278		mg/8g	14.0	
CBDV per 8g [†]	< LOQ		mg/8g	0.930	
CBDV-A per 8g [†]	< LOQ		mg/8g	0.930	
CBDV-Total per 8g [†]	< LOQ		mg/8g	1.74	
CBE per 8g [†]	< LOQ		mg/8g	0.930	
CBG per 8g [†]	< LOQ		mg/8g	0.930	
CBG-A per 8g [†]	< LOQ		mg/8g	0.930	
CBG-Total per 8g [†]	< LOQ		mg/8g	1.74	
CBL per 8g [†]	< LOQ		mg/8g	0.930	
CBL-A per 8g [†]	< LOQ		mg/8g	0.930	
CBL-Total per 8g [†]	< LOQ		mg/8g	1.75	
CBN per 8g	< LOQ		mg/8g	0.930	
CBT per 8g [†]	< LOQ		mg/8g	0.930	
Δ8-THCV per 8g [†]	< LOQ		mg/8g	0.930	
Δ8-THC per 8g [†]	< LOQ		mg/8g	0.930	
Δ9-THC per 8g	8.96		mg/8g	7.44	
exo-THC per 8g [†]	< LOQ		mg/8g	0.930	
THC-A per 8g	< LOQ		mg/8g	0.930	
THC-Total per 8g	< LOQ		mg/8g	14.0	
THCV per 8g [†]	< LOQ		mg/8g	0.930	
THCV-A per 8g [†]	< LOQ		mg/8g	0.930	
THCV-Total per 8g [†]	< LOQ		mg/8g	1.75	
Total Cannabinoids per 8g	287		mg/8g		



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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/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

HEALTHYROOTS 21-010177



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 checked="" type="checkbox"/> 5 Business Day Standard Turnaround		
Email: Healthyrootshemp@gmail.com														<input 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
#163	Roller Bomb	8/31/20				X								T	8g	
#166	1000 mint	9/1				X								T	1g 28.5g	
#165	Facial Oil					X								T	16g	
#167	1000 Horse					X								T	28.5g	
Report in mg/gr and % (percentage)																
Relinquished By:				Received By:				Date				Time		Lab Use Only:		
Merritt				BD				9/1/21				14:00		<input type="checkbox"/> Shipped Via: <input checked="" type="checkbox"/> Client drop		
														Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): 24.9		
														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
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Revision #: 0.00 Control : CFL-D06
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

JAOAC2015 V986

Batch ID: 2107929

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDA	0.203	0.2	%	101	85.0 - 115	Acceptable	
CBV	0.214	0.2	%	107	85.0 - 115	Acceptable	
CBE	0.205	0.2	%	103	85.0 - 115	Acceptable	
CBDA	0.196	0.2	%	98.1	85.0 - 115	Acceptable	
CBGA	0.202	0.2	%	101	85.0 - 115	Acceptable	
CBG	0.200	0.2	%	99.9	85.0 - 115	Acceptable	
CB	0.198	0.2	%	99.0	85.0 - 115	Acceptable	
THCV	0.209	0.2	%	104	85.0 - 115	Acceptable	
d8THCV	0.189	0.2	%	94.4	85.0 - 115	Acceptable	
THCA	0.195	0.2	%	97.3	85.0 - 115	Acceptable	
CBN	0.195	0.2	%	97.5	85.0 - 115	Acceptable	
exo-THC	0.191	0.2	%	95.5	85.0 - 115	Acceptable	
d9THC	0.205	0.2	%	102	85.0 - 115	Acceptable	
d8THC	0.185	0.2	%	92.3	85.0 - 115	Acceptable	
CBL	0.216	0.2	%	108	85.0 - 115	Acceptable	
CB	0.193	0.2	%	96.4	85.0 - 115	Acceptable	
THCA	0.192	0.2	%	96.1	85.0 - 115	Acceptable	
CBGA	0.196	0.2	%	98.0	85.0 - 115	Acceptable	
CB	0.200	0.2	%	100	85.0 - 115	Acceptable	
CB	0.206	0.2	%	103	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<LOQ	0.1	%	< 0.1	Acceptable	
CBV	<LOQ	0.1	%	< 0.1	Acceptable	
CBE	<LOQ	0.1	%	< 0.1	Acceptable	
CBDA	<LOQ	0.1	%	< 0.1	Acceptable	
CBGA	<LOQ	0.1	%	< 0.1	Acceptable	
CBG	<LOQ	0.1	%	< 0.1	Acceptable	
CB	<LOQ	0.1	%	< 0.1	Acceptable	
THCV	<LOQ	0.1	%	< 0.1	Acceptable	
d8THCV	<LOQ	0.1	%	< 0.1	Acceptable	
THCA	<LOQ	0.1	%	< 0.1	Acceptable	
CBN	<LOQ	0.1	%	< 0.1	Acceptable	
exo-THC	<LOQ	0.1	%	< 0.1	Acceptable	
d9THC	<LOQ	0.1	%	< 0.1	Acceptable	
d8THC	<LOQ	0.1	%	< 0.1	Acceptable	
CBL	<LOQ	0.1	%	< 0.1	Acceptable	
CB	<LOQ	0.1	%	< 0.1	Acceptable	
THCA	<LOQ	0.1	%	< 0.1	Acceptable	
CBGA	<LOQ	0.1	%	< 0.1	Acceptable	
CB	<LOQ	0.1	%	< 0.1	Acceptable	
CB	<LOQ	0.1	%	< 0.1	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

JAOAC2015 V986								
Batch ID: 2107929								
Sample Duplicate								
Sample ID: 21-009747-0001-01								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	0.292	0.289	0.1	%	0.971	< 20	Acceptable	
CBE	0.346	0.343	0.1	%	0.794	< 20	Acceptable	
CBD A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBS	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBD	>98.0	>98.0	0.1	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBF	<LOQ	<LOQ	0.1	%	NA	< 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.