



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



Report Number: 21-010177/D005.R000
Report Date: 09/09/2021
ORELAP#: OR100028
Purchase Order:
Received: 09/01/21 14:00

Customer: Healthy Roots
Product identity: #166 1000 Mint
Client/Metric ID: .
Laboratory ID: 21-010177-0002

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBD	3.91		%		CBD-Total per 28.5g 1110 mg/28.5g
Analyte per 28.5g	Result	Limits	Units	Status	
CBD per 28.5g	1110		mg/28.5g		THC-Total per 28.5g <LOQ
(Reported in milligrams per serving)					



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Received: 09/01/21 14:00

Customer: Healthy Roots
Product identity: #166 1000 Mint
Client/Metric ID: .
Sample Date:
Laboratory ID: 21-010177-0002
Evidence of Cooling: No
Temp: 24.9 °C
Relinquished by: L. Merrit
Serving Size #1: 28.5 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2107929	Analyze: 9/3/21 4:40:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.0858	
CBC-A†	< LOQ		%	0.0858	
CBC-Total†	< LOQ		%	0.161	
CBD	3.91		%	0.0858	
CBD-A	< LOQ		%	0.0858	
CBD-Total	3.91		%	0.161	
CBDV†	< LOQ		%	0.0858	
CBDV-A†	< LOQ		%	0.0858	
CBDV-Total†	< LOQ		%	0.160	
CBE†	< LOQ		%	0.0858	
CBG†	< LOQ		%	0.0858	
CBG-A†	< LOQ		%	0.0858	
CBG-Total	< LOQ		%	0.160	
CBL†	< LOQ		%	0.0858	
CBL-A†	< LOQ		%	0.0858	
CBL-Total†	< LOQ		%	0.161	
CBN	< LOQ		%	0.0858	
CBT†	< LOQ		%	0.0858	
Δ8-THCV	< LOQ		%	0.0858	
Δ8-THC†	< LOQ		%	0.0858	
Δ9-THC	< LOQ		%	0.0858	
THC-A	< LOQ		%	0.0858	
THC-Total	< LOQ		%	0.161	
THCV†	< LOQ		%	0.0858	
THCV-A†	< LOQ		%	0.0858	
THCV-Total†	< LOQ		%	0.160	
Total Cannabinoids†	3.91		%		

Potency per 28.5g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2107929	Analyze: 9/3/21 4:40:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g†	< LOQ		mg/28.5g	0.858	
CBC-A per 28.5g†	< LOQ		mg/28.5g	0.858	
CBC-Total per 28.5g†	< LOQ		mg/28.5g	1.61	



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Potency per 28.5g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2107929 Analyze: 9/3/21 4:40:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 28.5g	1110		mg/28.5g	24.5	
CBD-A per 28.5g	< LOQ		mg/28.5g	0.858	
CBD-Total per 28.5g	1110		mg/28.5g	45.9	
CBDV per 28.5g [†]	< LOQ		mg/28.5g	0.858	
CBDV-A per 28.5g [†]	< LOQ		mg/28.5g	0.858	
CBDV-Total per 28.5g [†]	< LOQ		mg/28.5g	1.60	
CBE per 28.5g [†]	< LOQ		mg/28.5g	0.858	
CBG per 28.5g [†]	< LOQ		mg/28.5g	0.858	
CBG-A per 28.5g [†]	< LOQ		mg/28.5g	0.858	
CBG-Total per 28.5g [†]	< LOQ		mg/28.5g	1.60	
CBL per 28.5g [†]	< LOQ		mg/28.5g	0.858	
CBL-A per 28.5g [†]	< LOQ		mg/28.5g	0.858	
CBL-Total per 28.5g [†]	< LOQ		mg/28.5g	1.61	
CBN per 28.5g	< LOQ		mg/28.5g	0.858	
CBT per 28.5g [†]	< LOQ		mg/28.5g	0.858	
Δ8-THCV per 28.5g [†]	< LOQ		mg/28.5g	0.858	
Δ8-THC per 28.5g [†]	< LOQ		mg/28.5g	0.858	
Δ9-THC per 28.5g	< LOQ		mg/28.5g	0.858	
exo-THC per 28.5g [†]	< LOQ		mg/28.5g	0.858	
THC-A per 28.5g	< LOQ		mg/28.5g	0.858	
THC-Total per 28.5g	< LOQ		mg/28.5g	1.61	
THCV per 28.5g [†]	< LOQ		mg/28.5g	0.858	
THCV-A per 28.5g [†]	< LOQ		mg/28.5g	0.858	
THCV-Total per 28.5g [†]	< LOQ		mg/28.5g	1.61	
Total Cannabinoids per 28.5g	1110		mg/28.5g		



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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 = 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
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Page 5 of 8
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Received: 09/01/21 14:00

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: 2107929							
Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.203	0.2	%	101	85.0 - 115	Acceptable	
CBDV	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	
CBD	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	
THCVA	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	
CBC	0.193	0.2	%	96.4	85.0 - 115	Acceptable	
THCA	0.192	0.2	%	96.1	85.0 - 115	Acceptable	
CBCA	0.196	0.2	%	98.0	85.0 - 115	Acceptable	
CBLA	0.200	0.2	%	100	85.0 - 115	Acceptable	
CBT	0.206	0.2	%	103	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.1	%	< 0.1	Acceptable	
CBDV	<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	
CBD	<LOQ	0.1	%	< 0.1	Acceptable	
THCV	<LOQ	0.1	%	< 0.1	Acceptable	
d8THCV	<LOQ	0.1	%	< 0.1	Acceptable	
THCVA	<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	
CBC	<LOQ	0.1	%	< 0.1	Acceptable	
THCA	<LOQ	0.1	%	< 0.1	Acceptable	
CBCA	<LOQ	0.1	%	< 0.1	Acceptable	
CBLA	<LOQ	0.1	%	< 0.1	Acceptable	
CBT	<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

J AOAC 2015 V98-6		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	
CBDA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG	<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	
CBT	<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.