



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



Report Number: 21-012273/D002.R000
Report Date: 10/21/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/11/21 14:15

Customer: Healthy Roots
Product identity: #4 Blue Razzberry
Client/Metric ID: .
Laboratory ID: 21-012273-0003

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBD	0.794		%		CBD-Total per 3.4g 27.0 mg/3.4g
Analyte per 3.4g	Result	Limits	Units	Status	
CBD per 3.4g	27.0		mg/3.4g		THC-Total per 3.4g <LOQ
(Reported in milligrams per serving)					



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Customer: Healthy Roots
Product identity: #4 Blue Razzberry
Client/Metric ID: .
Sample Date:
Laboratory ID: 21-012273-0003
Evidence of Cooling: No
Temp: 20 °C
Relinquished by: Client
Serving Size #1: 3.4 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2109491	Analyze: 10/20/21 7:52:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.0032	
CBC-A†	< LOQ		%	0.0032	
CBC-Total†	< LOQ		%	0.0059	
CBD	0.794		%	0.0032	
CBD-A	< LOQ		%	0.0032	
CBD-Total	0.794		%	0.0059	
CBDV†	< LOQ		%	0.0032	
CBDV-A†	< LOQ		%	0.0032	
CBDV-Total†	< LOQ		%	0.0059	
CBE†	< LOQ		%	0.0032	
CBG†	< LOQ		%	0.0032	
CBG-A†	< LOQ		%	0.0032	
CBG-Total	< LOQ		%	0.0059	
CBL†	< LOQ		%	0.0032	
CBL-A†	< LOQ		%	0.0032	
CBL-Total†	< LOQ		%	0.0059	
CBN	< LOQ		%	0.0032	
CBT†	< LOQ		%	0.0032	
Δ8-THCV	< LOQ		%	0.0032	
Δ8-THC†	< LOQ		%	0.0032	
Δ9-THC	< LOQ		%	0.0032	
THC-A	< LOQ		%	0.0032	
THC-Total	< LOQ		%	0.0059	
THCV†	< LOQ		%	0.0032	
THCV-A†	< LOQ		%	0.0032	
THCV-Total†	< LOQ		%	0.0059	
Total Cannabinoids†	0.794		%		

Potency per 3.4g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2109491	Analyze: 10/20/21 7:52:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 3.4g†	< LOQ		mg/3.4g	0.107	
CBC-A per 3.4g†	< LOQ		mg/3.4g	0.107	
CBC-Total per 3.4g†	< LOQ		mg/3.4g	0.201	



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Potency per 3.4g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2109491 Analyze: 10/20/21 7:52:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 3.4g	27.0		mg/3.4g	0.107	
CBD-A per 3.4g	< LOQ		mg/3.4g	0.107	
CBD-Total per 3.4g	27.0		mg/3.4g	0.201	
CBDV per 3.4g [†]	< LOQ		mg/3.4g	0.107	
CBDV-A per 3.4g [†]	< LOQ		mg/3.4g	0.107	
CBDV-Total per 3.4g [†]	< LOQ		mg/3.4g	0.200	
CBE per 3.4g [†]	< LOQ		mg/3.4g	0.107	
CBG per 3.4g [†]	< LOQ		mg/3.4g	0.107	
CBG-A per 3.4g [†]	< LOQ		mg/3.4g	0.107	
CBG-Total per 3.4g [†]	< LOQ		mg/3.4g	0.200	
CBL per 3.4g [†]	< LOQ		mg/3.4g	0.107	
CBL-A per 3.4g [†]	< LOQ		mg/3.4g	0.107	
CBL-Total per 3.4g [†]	< LOQ		mg/3.4g	0.201	
CBN per 3.4g	< LOQ		mg/3.4g	0.107	
CBT per 3.4g [†]	< LOQ		mg/3.4g	0.107	
Δ8-THCV per 3.4g [†]	< LOQ		mg/3.4g	0.107	
Δ8-THC per 3.4g [†]	< LOQ		mg/3.4g	0.107	
Δ9-THC per 3.4g	< LOQ		mg/3.4g	0.107	
exo-THC per 3.4g [†]	< LOQ		mg/3.4g	0.107	
THC-A per 3.4g	< LOQ		mg/3.4g	0.107	
THC-Total per 3.4g	< LOQ		mg/3.4g	0.201	
THCV per 3.4g [†]	< LOQ		mg/3.4g	0.107	
THCV-A per 3.4g [†]	< LOQ		mg/3.4g	0.107	
THCV-Total per 3.4g [†]	< LOQ		mg/3.4g	0.201	
Total Cannabinoids per 3.4g	27.0		mg/3.4g		



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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

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/3.4g = Milligram per 3.4g

% = 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

Company: _____				Analysis Requested										PO Number: _____	
CHAIN OF CUSTODY 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				Sampled by: _____										Project Number: _____	
billing (if different): _____				Project Name: _____										Custom Reporting: _____	
Relinquished By: _____				Report to State: <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____										Turnaround time: <input checked="" type="checkbox"/> 5 Business Day Standard Turnaround	
Date: 10/11/21 Time: 2:15 PM				Turnaround time: <input type="checkbox"/> 3 Business Day Rush Turnaround*										<input type="checkbox"/> 2 Business Day Rush Turnaround*	
Received By: _____				Turnaround time: *Check for availability											
Date: 10/11/21 Time: 14:15				Sample Type: _____										Weight (Units): _____	
Prelog storage: _____				Comments/Metric ID											
				Report in mg/gr and % (percentage)											

† - 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
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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: 2109491

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.0100	0.01	%	100	85.0 - 115	Acceptable	
CBDV	0.0104	0.01	%	104	85.0 - 115	Acceptable	
CBE	0.0107	0.01	%	107	85.0 - 115	Acceptable	
CBDA	0.00998	0.01	%	99.8	85.0 - 115	Acceptable	
CBGA	0.00996	0.01	%	99.6	85.0 - 115	Acceptable	
CBG	0.0105	0.01	%	105	85.0 - 115	Acceptable	
CBD	0.0102	0.01	%	102	85.0 - 115	Acceptable	
THCV	0.0104	0.01	%	104	85.0 - 115	Acceptable	
d8THCV	0.0102	0.01	%	102	85.0 - 115	Acceptable	
THCVA	0.00960	0.01	%	96.0	85.0 - 115	Acceptable	
CBN	0.0101	0.01	%	101	85.0 - 115	Acceptable	
exo-THC	0.00977	0.01	%	97.7	85.0 - 115	Acceptable	
d9THC	0.00983	0.01	%	98.3	85.0 - 115	Acceptable	
d8THC	0.00976	0.01	%	97.6	85.0 - 115	Acceptable	
CBL	0.00940	0.01	%	94.0	85.0 - 115	Acceptable	
CBC	0.0101	0.01	%	101	85.0 - 115	Acceptable	
THCA	0.0106	0.01	%	106	85.0 - 115	Acceptable	
CBCA	0.0106	0.01	%	106	85.0 - 115	Acceptable	
CBLA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBT	0.00933	0.01	%	93.3	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: 2109491				
Sample Duplicate				Sample ID: 21-012273-0001				
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.769	0.770	0.003	%	0.118	< 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	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.003	%	NA	< 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	<LOQ	<LOQ	0.003	%	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.