



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

Report Number: 22-
Report Date: 002969/D005.R000
ORELAP#: 03/21/2022
Purchase Order: OR100028
Received: 03/15/22 14:19



Customer: Healthy Roots
Product identity: Rosemary Puck #10.A
Client/Metric ID: .
Laboratory ID: 22-002969-0006

Summary

Potency:

Analyte	Result	Limits	Units	Status
CBC	0.00972		%	
CBD	0.105		%	
CBD-A	0.00202		%	
CBG†	0.00194		%	
CBT†	0.000726		%	
Δ9-THC	0.00377		%	
Analyte per 113g	Result	Limits	Units	Status
CBC per 113g	11.0		mg/113g	
CBD per 113g	119		mg/113g	
CBD-A per 113g	2.28		mg/113g	
CBGper113g†	2.19		mg/113g	
CBTper113g†	0.820		mg/113g	
Δ9-THC per113g	4.26		mg/113g	

CBD-Total per 113g	121 mg/113g
THC-Total per 113g	4.26 mg/113g
(Reported in milligrams per serving)	

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Customer: Healthy Roots
Product identity: Rosemary Puck #10.A
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-002969-0006
Evidence of Cooling: No
Temp: 21.9 °C
Relinquished by: client
Serving Size #1: 113 g

Sample Results

Potency					
Method J AOAC 2015 V98-6 (mod)		Units %		Batch: 2202295	Analyze: 3/17/22 10:56:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.00972		%	0.0007	
CBC-A†	<LOQ		%	0.0007	
CBC-Total †	0.00972		%	0.0012	
CBD	0.105		%	0.0007	
CBD-A	0.00202		%	0.0007	
CBD-Total	0.107		%	0.0012	
CBDV †	<LOQ		%	0.0007	
CBDV-A†	<LOQ		%	0.0007	
CBDV-Total †	<LOQ		%	0.0012	
CBE†	<LOQ		%	0.0007	
CBG†	0.00194		%	0.0007	
CBG-A †	<LOQ		%	0.0007	
CBG-Total	0.00194		%	0.0012	
CBL†	<LOQ		%	0.0007	
CBL-A†	<LOQ		%	0.0007	
CBL-Total†	<LOQ		%	0.0012	
CBN	<LOQ		%	0.0007	
CBT†	0.000726		%	0.0007	
Δ8-THCV	<LOQ		%	0.0007	
Δ8-THC†	<LOQ		%	0.0007	
Δ9-THC	0.00377		%	0.0007	
THC-A	<LOQ		%	0.0007	
THC-Total	0.00377		%	0.0007	
THCV†	<LOQ		%	0.0012	
THCV-A†	<LOQ		%	0.0007	
THCV-Total†	<LOQ		%	0.0007	
TotalCannabinoids†	0.123		%	0.0012	


Potency per 113g					
Method J AOAC 2015 V98-6 (mod)		Units mg/se		Batch: 2202295	Analyze: 3/17/22 10:56:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per113g†	11.0		mg/113g	0.747	
CBC-Aper113g†	<LOQ		mg/113g	0.747	
CBC-Total per113g†	11.0		mg/113g	1.40	

† Test results relate only to the parameters tested and to the samples as received by the laboratory. † Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.
 Testing in accordance with: OAR 333-007-0430



Portland, OR 97230
 Report Date: 03/21/2022
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Potency per 113g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2202295 Analyze: 3/17/22 10:56:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 113g	119		mg/113g	0.747	
CBD-A per 113g	2.28		mg/113g	0.747	
CBD-Total per 113g	121		mg/113g	1.40	
CBDV per 113g†	<LOQ		mg/113g	0.747	
CBDV-A per 113g†	<LOQ		mg/113g	0.747	
CBDV-Total per 113g†	<LOQ		mg/113g	1.39	
CBE per 113g†	<LOQ		mg/113g	0.747	
CBG per 113g†	2.19		mg/113g	0.747	
CBG-A per 113g†	<LOQ		mg/113g	0.747	
CBG-Total per 113g†	2.19		mg/113g	1.39	
CBL per 113g†	<LOQ		mg/113g	0.747	
CBL-A per 113g†	<LOQ		mg/113g	0.747	
CBL-Total per 113g†	<LOQ		mg/113g	1.40	
CBN per 113g	<LOQ		mg/113g	0.747	
CBT per 113g†	0.820		mg/113g	0.747	
Δ8-THCV per 113g†	<LOQ		mg/113g	0.747	
Δ8-THC per 113g†	<LOQ		mg/113g	0.747	
Δ9-THC per 113g	4.26		mg/113g	0.747	
exo-THC per 113g†	<LOQ		mg/113g	0.747	
THC-A per 113g	<LOQ		mg/113g	0.747	
THC-Total per 113g	4.26		mg/113g	1.40	
THCV per 113g†	<LOQ		mg/113g	0.747	
THCV-A per 113g†	<LOQ		mg/113g	0.747	
THCV-Total per 113g†	<LOQ		mg/113g	1.40	
Total Cannabinoids per 113g	139		mg/113g		

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 Testing in accordance with: OAR 333-007-0430

Purchase Order:



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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/113g = Milligram per 113g
- % = Percentage of sample
- % wt = µg/g divided by 10,000



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Approved Signatory



Derrick Tanner
General Manager

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**Hemp / Cannabis Usable / Extract / Finished Products
Chain of Custody Record**

Revision: 4.00 Control#: CFO23 Rev 02/24/2021 Eff: 03/04/2021
ORELAP ID: OR100028

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				Analysis Requested 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 Microtoxins Aerobic Plate Count, Salmonella Other: Staphylococcus, Escherichia										PO Number: _____ Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: Turnaround time: <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* <small>*Check for availability</small> Sampled by: _____																																																																																																																																																												
Billing (if different): * Please add: Compliance @ Healthyrootshemp.com				<table border="1"> <thead> <tr> <th>Lab ID</th> <th>Client Sample Identification</th> <th>Date</th> <th>Time</th> <th>Pesticides - OR 59 compounds</th> <th>Pesticide Multi-Residue - 379 compounds</th> <th>Potency</th> <th>Residual Solvents</th> <th>Moisture & Water Activity</th> <th>Terpenes</th> <th>Micro: Yeast and Mold</th> <th>Micro: E Coli and Total Coliform</th> <th>Heavy Metals</th> <th>Microtoxins</th> <th>Aerobic Plate Count, Salmonella Other: Staphylococcus, Escherichia</th> <th>Sample Type †</th> <th>Weight (Units)</th> <th>Comments/Metric ID</th> </tr> </thead> <tbody> <tr> <td></td> <td>Lavender BB #10.A</td> <td>3/15</td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>T</td> <td>200g</td> <td rowspan="8"> Report in mg/gr and % (percentage) </td> </tr> <tr> <td></td> <td>Lavender Puck #10.A</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>T</td> <td>113g</td> </tr> <tr> <td></td> <td>Citrus BB #10.A</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>T</td> <td>200g</td> </tr> <tr> <td></td> <td>Citrus Puck #10.A</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>T</td> <td>113g</td> </tr> <tr> <td></td> <td>Rosemary BB #10.A</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>T</td> <td>200g</td> </tr> <tr> <td></td> <td>Rosemary Puck #10.A</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>T</td> <td>113g</td> </tr> <tr> <td></td> <td>Lemongrass BB #10.A</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>T</td> <td>200g</td> </tr> <tr> <td></td> <td>Lemongrass Puck #10.A</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>T</td> <td>113g</td> </tr> </tbody> </table>												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	Microtoxins	Aerobic Plate Count, Salmonella Other: Staphylococcus, Escherichia	Sample Type †	Weight (Units)	Comments/Metric ID		Lavender BB #10.A	3/15				✓									T	200g	Report in mg/gr and % (percentage)		Lavender Puck #10.A					✓									T	113g		Citrus BB #10.A					✓									T	200g		Citrus Puck #10.A					✓									T	113g		Rosemary BB #10.A					✓									T	200g		Rosemary Puck #10.A					✓									T	113g		Lemongrass BB #10.A					✓									T	200g		Lemongrass Puck #10.A					✓									T	113g
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Relinquished By: Melton Date: 3/15 Time: 2:00p				Received By: AC Date: 3/15 Time: 14:19				Lab Use Only: <input type="checkbox"/> Shipped Via: _____ or <input checked="" type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input type="checkbox"/> No - Temp (°C): 21.9°C 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)

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info@columbialaboratories.com

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Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results
Batch ID: 2202295

J AOAC 2015 V98-6 Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.0105	0.01	%	105	80.0 - 120	Acceptable	
CBDV	0.0108	0.01	%	108	80.0 - 120	Acceptable	
CBE	0.0104	0.01	%	104	80.0 - 120	Acceptable	
CBDA	0.0100	0.01	%	100	80.0 - 120	Acceptable	
CBGA	0.0102	0.01	%	102	80.0 - 120	Acceptable	
CBG	0.00989	0.01	%	98.9	80.0 - 120	Acceptable	
CBD	0.00989	0.01	%	98.9	80.0 - 120	Acceptable	
THCV	0.0105	0.01	%	105	80.0 - 120	Acceptable	
d8THCV	0.0102	0.01	%	102	80.0 - 120	Acceptable	
THCVA	0.00991	0.01	%	99.1	80.0 - 120	Acceptable	
CBN	0.0102	0.01	%	102	80.0 - 120	Acceptable	
exo-THC	0.00937	0.01	%	93.7	80.0 - 120	Acceptable	
d9THC	0.00973	0.01	%	97.3	80.0 - 120	Acceptable	
d8THC	0.00966	0.01	%	96.6	80.0 - 120	Acceptable	
CBL	0.00870	0.01	%	87.0	80.0 - 120	Acceptable	
CBC	0.0102	0.01	%	102	80.0 - 120	Acceptable	
THCA	0.00972	0.01	%	97.2	80.0 - 120	Acceptable	
CBCA	0.0100	0.01	%	100	80.0 - 120	Acceptable	
CBLA	0.00964	0.01	%	96.4	80.0 - 120	Acceptable	
CBT	0.00794	0.01	%	79.4	80.0 - 120	Acceptable	
							06

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	< LOQ	0.0006	%	< 0.0006	Acceptable	
CBDV	< LOQ	0.0006	%	< 0.0006	Acceptable	
CBE	< LOQ	0.0006	%	< 0.0006	Acceptable	
CBDA	< LOQ	0.0006	%	< 0.0006	Acceptable	
CBGA	< LOQ	0.0006	%	< 0.0006	Acceptable	
CBG	< LOQ	0.0006	%	< 0.0006	Acceptable	
CBD	< LOQ	0.0006	%	< 0.0006	Acceptable	
THCV	< LOQ	0.0006	%	< 0.0006	Acceptable	
d8THCV	< LOQ	0.0006	%	< 0.0006	Acceptable	
THCVA	< LOQ	0.0006	%	< 0.0006	Acceptable	
CBN	< LOQ	0.0006	%	< 0.0006	Acceptable	
exo-THC	< LOQ	0.0006	%	< 0.0006	Acceptable	
d9THC	< LOQ	0.0006	%	< 0.0006	Acceptable	
d8THC	< LOQ	0.0006	%	< 0.0006	Acceptable	
CBL	< LOQ	0.0006	%	< 0.0006	Acceptable	
CBC	< LOQ	0.0006	%	< 0.0006	Acceptable	
THCA	< LOQ	0.0006	%	< 0.0006	Acceptable	
CBCA	< LOQ	0.0006	%	< 0.0006	Acceptable	
CBLA	< LOQ	0.0006	%	< 0.0006	Acceptable	
CBT	< LOQ	0.0006	%	< 0.0006	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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Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2202295								
Sample Duplicate								
Sample ID: 22-002889-0001								
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	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
THCV	< LOQ	< LOQ	0.003	%	NA	<20	Acceptable	
d8THCV	0.0047	0.00475	< 0.003	%	0.775	<20	Acceptable	
THCVA	8 < LOQ	LOQ	0.003	%	NA	<20	Acceptable	
CBN	0.0030	<LOQ	0.003	%	NA	<20	Acceptable	
exo-THC	4 <LOQ	<LOQ	0.003	%	NA	<20	Acceptable	R2
d9THC	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
d8THC	0.572	0.569	0.003	%	0.552	<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

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.

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