



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-Total per 113g 121 mg/113g
CBD	0.105		%		
CBD-A	0.00202		%		THC-Total per 113g 4.26 mg/113g
CBG†	0.00194		%		
CBT†	0.000726		%		(Reported in milligrams per serving)
Δ9-THC	0.00377		%		
Analyte per 113g	Result	Limits	Units	Status	
CBC per 113g	11.0		mg/113g		
CBD per 113g	119		g		
CBD-A per 113g	2.28		mg/113g		
CBGper113g†	2.19		g		
CBTper113g†	0.820		mg/113g		
Δ9-THC per113g	4.26		g		

mg/113g
 g
 mg/113g
 g
 mg/113g
 g



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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	0.74	
CBC-Aper113g†	<LOQ		mg/113g	7	
CBC-Total per113g†	11.0		mg/113g	0.74	
				7	
				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



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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	0.74	
CBD-A per 113g	2.28		mg/113g	7	
CBD-Total per 113g	121		mg/113g	0.74	
CBDV per 113g†	<LOQ		mg/113g	7	
CBDV-Aper 113g†	<LOQ		mg/113g	1.40	
CBDV-Total per 113g†	<LOQ		mg/113g	0.74	
CBE per 113g†	<LOQ		mg/113g	7	
CBGper 113g†	2.19		mg/113g	0.74	
CBG-A per 113g†	<LOQ		mg/113g	7	
CBG-Total per 113g†	2.19		mg/113g	1.39	
CBL per 113g†	<LOQ		mg/113g	0.74	
CBL-Aper 113g†	<LOQ		mg/113g	7	
CBL-Total per 113g†	<LOQ		mg/113g	0.74	
CBN per 113g	<LOQ		mg/113g	7	
CBTper 113g†	0.820		mg/113g	0.74	
Δ8-THCV per 113g†	<LOQ		mg/113g	7	
Δ8-THC per 113g†	<LOQ		mg/113g	1.39	
Δ9-THC per 113g	4.26		mg/113g	0.74	
exo-THC per 113g†	<LOQ		mg/113g	7	
THC-A per 113g	<LOQ		mg/113g	0.74	
THC-Total per 113g	4.26		mg/113g	7	
THCV per 113g†	<LOQ		mg/113g	1.40	
THCV-A per 113g†	<LOQ		mg/113g	0.74	
THCV-Total per 113g†	<LOQ		mg/113g	7	
Total Cannabinoids per 113g	139		mg/113g	0.74	
				7	
				0.74	
				7	
				0.74	
				7	
				0.74	
				7	
				1.40	
				0.74	
				7	
				0.74	
				7	
				1.40	

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Purchase Order:



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These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

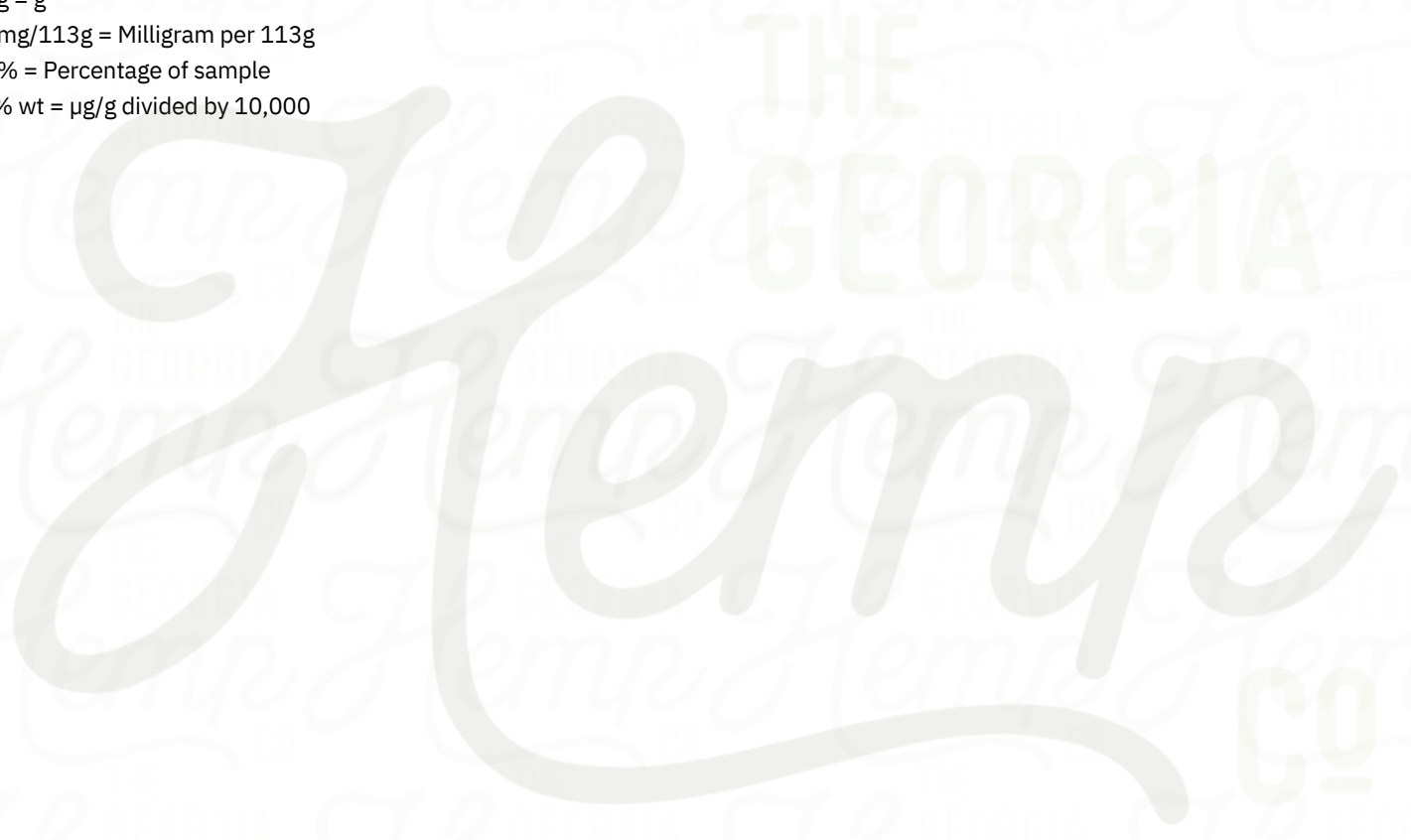
Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

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



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

CHAIN OF CUSTODY				Analysis Requested										PO Number: _____		Project Number: _____	Project Name: _____	Custom Reporting: _____
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				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, Pseudomonas										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* *Check for availability	Sampled by: _____	Billing (if different): * Please add: Compliance@Healthyrootshemp.com
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, Pseudomonas	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	
Relinquished By:	Date	Time	Received By:		Date	Time	Lab Use Only:											
Melton	3/15	2:00p	AC		3/15	14:19	<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): 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: _____											

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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	0.0	%	105	80, - 12	Acceptable	
CBDV	0.0108	1	%	108	0 - 0	Acceptable	
CBE	0.0104	0.0	%	104	80, - 12	Acceptable	
CBDA	0.0100	1	%	100	0 - 0	Acceptable	
CBGA	0.0102	0.0	%	102	80, - 12	Acceptable	
CBG	0.0098	1	%	98	0 - 0	Acceptable	
CBD	9	0.0	%	9	80 - 12	Acceptable	
THCV	0.0098	1	%	98	0 - 0	Acceptable	
d8THCV	9	0.0	%	9	80, - 12	Acceptable	
THCVA	0.0105	1	%	105	0 - 0	Acceptable	
CBN	0.0102	0.0	%	102	80, - 12	Acceptable	
exo-THC	0.0099	1	%	99	0 - 0	Acceptable	
u9THC	1	0.0	%	1	80, - 12	Acceptable	
d8THC	0.0102	1	%	102	0 - 0	Acceptable	
CBL	0.0092	0.0	%	92	80, - 12	Acceptable	
CBC	7	1	%	7	0 - 0	Acceptable	
THCA	0.0097	0.0	%	97	80, - 12	Acceptable	
CBCA	3	1	%	3	0 - 0	Acceptable	
CBLA	0.0096	0.0	%	96	80, - 12	Acceptable	
CBT	6	1	%	6	0 - 0	Acceptable	
	0.0087	0.0		87	80, 12		
	0	1		0	0		06
	0.0102	0.0		102	80, 12		
	0.0097	1		97	0		
Method Blank	2	0.0		80, 12			
Analyte	Result	Units	%	Limits	Evaluation	Notes	
CBDVA	<LOQ	0.000	%	<0.0006	0	Acceptable	
CBDV	<LOQ	0.000	%	<0.0006	12	Acceptable	
CBE	<LOQ	0.000	%	<0.0006	0	Acceptable	
CBDA	0.0078	0.000	%	80, -0.0006	12	Acceptable	
CBGA	<LOQ	0.000	%	<0.0006	0	Acceptable	
CBG	<LOQ	0.000	%	<0.0006	12	Acceptable	
CBD	<LOQ	0.000	%	<0.0006	0	Acceptable	
THCV	<LOQ	0.000	%	<0.0006	12	Acceptable	
d8THCV	<LOQ	0.000	%	<0.0006	0	Acceptable	
THCVA	<LOQ	0.000	%	<0.0006	12	Acceptable	
CBN	<LOQ	0.000	%	<0.0006	0	Acceptable	
exo-THC	<LOQ	0.000	%	<0.0006	12	Acceptable	
u9THC	<LOQ	0.000	%	<0.0006	0	Acceptable	
d8THC	<LOQ	0.000	%	<0.0006	12	Acceptable	
CBL	<LOQ	0.000	%	<0.0006	0	Acceptable	
CBC	<LOQ	0.000	%	<0.0006	0	Acceptable	
THCA	<LOQ	0.000	%	<0.0006	0	Acceptable	
CBCA	<LOQ	0.000	%	<0.0006	0	Acceptable	
CBLA	<LOQ	0.000	%	<0.0006	0	Acceptable	
CBT	<LOQ	0.000	%	<0.0006	0	Acceptable	
	6	0.000					

Abbreviations
ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:
% - Percent


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

Laboratory Quality Control Results

J AOAC 2015 V98-6									
Batch ID: 2202295									
Sample ID: 22-002889-0001									
Sample Duplicate									
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes	
CBDVA	<LOQ	<LOQ	0.00	%	NA	<20	Acceptable		
CBDV	<LOQ	<LOQ	3	%	NA	<20	Acceptable		
CBE	<LOQ	<LOQ	0.00	%	NA	<20	Acceptable		
CBDA	<LOQ	<LOQ	3	%	NA	<20	Acceptable		
CBGA	<LOQ	<LOQ	0.00	%	NA	<20	Acceptable		
CBG	<LOQ	<LOQ	3	%	NA	<20	Acceptable		
CBD	<LOQ	<LOQ	0.00	%	NA	<20	Acceptable		
THCV	<LOQ	<LOQ	3	%	NA	<20	Acceptable		
d8THCV	0.0047	0.0047	0.00	%	0.775	<20	Acceptable		
THCVA	8 <LOQ	5 <LOQ	3	%	NA	<20	Acceptable		
CBN	0.0030	<LOQ	0.00	%	NA	<20	Acceptable		
exo-THC	4 <LOQ	<LOQ	3	%	NA	<20	Acceptable	R2	
d9THC	<LOQ	<LOQ	0.00	%	NA	<20	Acceptable		
d8THC	0.572	0.569	3	%	0.552	<20	Acceptable		
CBL	<LOQ	<LOQ	0.00	%	NA	<20	Acceptable		
CBC	<LOQ	<LOQ	3	%	NA	<20	Acceptable		
THCA	<LOQ	<LOQ	0.00	%	NA	<20	Acceptable		
CBCA	<LOQ	<LOQ	3	%	NA	<20	Acceptable		
CBLA	<LOQ	<LOQ	0.00	%	NA	<20	Acceptable		
CBT	<LOQ	<LOQ	3	%	NA	<20	Acceptable		
			0.00						
			3						
			0.00						
			3						
			0.00						
			3						
			0.00						
			3						
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			0.00						
			3						

Abbreviations

 ND -None Detected at or above MR
 RPD -Relative Percent Difference
 LOQ -Limit of Quantitation

Units of Measure:

% - Percent



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.