



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

Report Number: 22-
Report Date: 002969/D002.R000
ORELAP#: 03/21/2022
Purchase Order: OR100028
Received: 03/15/22 14:19



Customer: Healthy Roots
Product identity: Lemongrass Puck #10.A
Client/Metric ID: .
Laboratory ID: 22-002969-0008

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBC	0.00963		%		CBD-Total per 113g 122 mg/113g
CBD	0.106		%		
CBD-A	0.00235		%		THC-Total per 113g 4.58 mg/113g
CBG†	0.00131		%		
CBT†	0.000758		%		(Reported in milligrams per serving)
Δ9-THC	0.00405		%		
Analyte per 113g	Result	Limits	Units	Status	
Δ9-THC per 113g	10.9		mg/113g		
CBD per 113g	120		g		
CBD-A per 113g	2.66		mg/113g		
CBGper113g†	1.48		g		
CBTper113g†	0.857		mg/113g		
Δ9-THC per113g	4.58		g		



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Customer: Healthy Roots
Product identity: Lemongrass Puck
Client/Metric ID: #10.A .
Sample Date:
Laboratory ID: 22-002969-0008
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	0.00963		%	0.0007	
CBC-A†	<LOQ		%	0.0007	
CBC-Total †	0.00963		%	0.0012	
CBD	0.106		%	0.0007	
CBD-A	0.00235		%	0.0007	
CBD-Total	0.108		%	0.0012	
CBDV †	<LOQ		%	0.0007	
CBDV-A†	<LOQ		%	0.0007	
CBDV-Total †	<LOQ		%	0.0012	
CBE†	<LOQ		%	0.0007	
CBG†	0.00131		%	0.0007	
CBG-A †	<LOQ		%	0.0007	
CBG-Total	0.00131		%	0.0012	
CBL†	<LOQ		%	0.0007	
CBL-A†	<LOQ		%	0.0007	
CBL-Total†	<LOQ		%	0.0012	
CBN	<LOQ		%	0.0007	
CBT†	0.000758		%	0.0007	
Δ8-THCV	<LOQ		%	0.0007	
Δ8-THC†	<LOQ		%	0.0007	
Δ9-THC	0.00405		%	0.0007	
THC-A	<LOQ		%	0.0007	
THC-Total	0.00405		%	0.0007	
THCV†	<LOQ		%	0.0012	
THCV-A†	<LOQ		%	0.0007	
THCV-Total†	<LOQ		%	0.0007	
TotalCannabinoids†	0.124		%	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†	10.9		mg/113g	0.752	
CBC-Aper113g†	<LOQ		mg/113g	0.752	
CBC-Total per113g†	10.9		mg/113g	1.41	

† 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	120		mg/113g	0.752	
CBD-A per 113g	2.66		mg/113g	0.752	
CBD-Total per 113g	122		mg/113g	1.41	
CBDV per 113g†	<LOQ		mg/113g	0.752	
CBDV-Aper 113g†	<LOQ		mg/113g	0.752	
CBDV-Total per 113g†	<LOQ		mg/113g	1.40	
CBE per 113g†	<LOQ		mg/113g	0.752	
CBGper 113g†	1.48		mg/113g	0.752	
CBG-A per 113g†	<LOQ		mg/113g	0.752	
CBG-Totalper 113g†	1.48		mg/113g	1.40	
CBL per 113g†	<LOQ		mg/113g	0.752	
CBL-Aper 113g†	<LOQ		mg/113g	0.752	
CBL-Total per 113g†	<LOQ		mg/113g	1.41	
CBN per 113g	<LOQ		mg/113g	0.752	
CBTper 113g†	0.857		mg/113g	0.752	
Δ8-THCV per 113g†	<LOQ		mg/113g	0.752	
Δ8-THC per 113g†	<LOQ		mg/113g	0.752	
Δ9-THC per 113g	4.58		mg/113g	0.752	
exo-THC per 113g†	<LOQ		mg/113g	0.752	
THC-A per 113g	<LOQ		mg/113g	0.752	
THC-Total per 113g	4.58		mg/113g	1.41	
THCV per 113g†	<LOQ		mg/113g	0.752	
THCV-A per 113g†	<LOQ		mg/113g	0.752	
THCV-Totalper 113g†	<LOQ		mg/113g	1.41	
Total Cannabinoidsper 113g	140		mg/113g		

Purchase Order:



Received: 03/15/22 14:19

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

Abbreviations

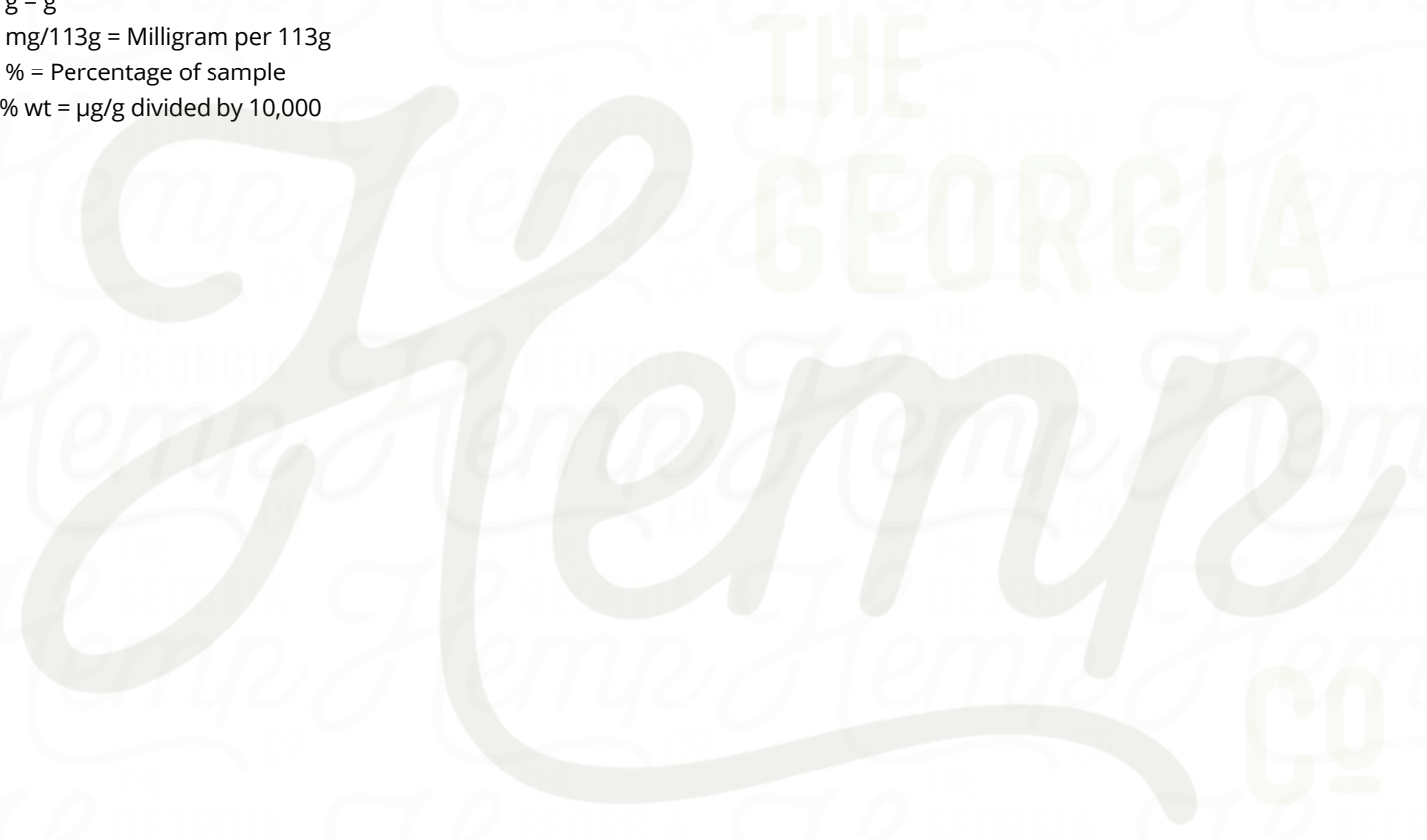
Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

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	Mycotoxins	Aerobic Plate Count, Salmonella Other: Staphylococcus, Pseudomonas	Sample Type †	Weight (Units)	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															
Billing (if different):				Sampled by: _____												Turnaround time: <input checked="" type="checkbox"/> 5 Business Day Standard Turnaround			
* Please add: Compliance @ Healthyrootshemp.com																Turnaround time: <input type="checkbox"/> 3 Business Day Rush Turnaround*			
																Turnaround time: <input type="checkbox"/> 2 Business Day Rush Turnaround*			
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	Aerobic Plate Count, Salmonella Other: Staphylococcus, Pseudomonas	Sample Type †	Weight (Units)	Comments/Metric ID		
	Lavender BB #10.A	3/15				✓									T	200g			
	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: _____											

† - 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
 info@columbialaboratories.com
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 www.columbialaboratories.com

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

J AOAC 2015 V98-6
Laboratory Quality Control Results
Batch ID:2202295

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.0105	0.01	%	105	80.0 - 12	Acceptabl	
CBDV	0.0108	0.01	%	108	80.0 - 0	e	
CBE	0.0104	0.01	%	104	80.0 - 12	Acceptabl	
CBDA	0.0100	0.01	%	100	80.0 - 0	e	
CBGA	0.0102	0.01	%	102	80.0 - 12	Acceptabl	
CBG	0.0098	0.01	%	98.9	80.0 - 0	e	
CBD	9	0.01	%	98.9	80.0 - 12	Acceptabl	
THCV	0.0098	0.01	%	105	80.0 - 0	e	
d8THCV	9	0.01	%	102	80.0 - 12	Acceptabl	
THCVA	0.0105	0.01	%	99.1	80.0 - 0	e	
CBN	0.0102	0.01	%	102	80.0 - 12	Acceptabl	
exo-THC	0.0099	0.01	%	93.7	80.0 - 0	e	
d9THC	1	0.01	%	97.3	80.0 - 12	Acceptabl	
d8THC	0.0102	0.01	%	96.6	80.0 - 0	e	
CBI	0.0093	0.01	%	87.0	80.0 - 12	Acceptabl	
CBC	7	0.01	%	102	80.0 - 0	e	
THCA	0.0097	0.01	%	97.2	80.0 - 12	Acceptabl	
CBCA	3	0.01	%	100	80.0 - 0	e	
CBLA	0.0096	0.01	%	96.4	80.0 - 12	Acceptabl	
CBT	6	0.01	%	79.4	80.0 - 0	e	
	0.0087				12	Acceptabl	
	0				0	e	Q6
	0.0102				12	Acceptabl	
	0.0097				0	e	

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	0.0096	0.000	%	< 0.0006	12	Acceptabl
CBDV	LOQ	6	%	< 0.0006	0	Acceptabl
CBE	4	0.000	%	< 0.0006	0	Acceptabl
CBDA	0.0079	6	%	< 0.0006	12	Acceptabl
CBGA	4	0.000	%	< 0.0006	0	Acceptabl
CBG	LOQ	6	%	< 0.0006	12	Acceptabl
CBD	<	0.000	%	< 0.0006	0	Acceptabl
THCV	LOQ	6	%	< 0.0006	12	Acceptabl
d8THCV	<	0.000	%	< 0.0006	0	Acceptabl
THCVA	LOQ	6	%	< 0.0006	12	Acceptabl
CBN	<	0.000	%	< 0.0006	0	Acceptabl
exo-THC	LOQ	6	%	< 0.0006	12	Acceptabl
d9THC	<	0.000	%	< 0.0006	0	Acceptabl
d8THC	LOQ	6	%	< 0.0006	12	Acceptabl
CBI	<	0.000	%	< 0.0006	0	Acceptabl
CBC	LOQ	6	%	< 0.0006	e	
THCA	<	0.000	%	< 0.0006	Acceptabl	
CBCA	LOQ	6	%	< 0.0006	e	
CBLA	<	0.000	%	< 0.0006	Acceptabl	
CBT	LOQ	6	%	< 0.0006	e	
	<	0.000			Acceptabl	
	LOQ	6			e	
	<	0.000			Acceptabl	

Abbreviations
 ND - None Detected at or above ML
 RPD - Relative Percent Difference
 LOQ - Limit of Quantitation
 LOQ
 < 0.000
 < 0.000
Units of Measure:
 % - Percent
 LOQ
 < 0.000
 < 0.000
 LOQ
 < 0.000
 < 0.000
 LOQ
 < 0.000
 < 0.000
 LOQ
 < 0.000
 < 0.000
 LOQ

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

Laboratory Quality Control Results							
Batch ID: 2202295							
Sample Duplicate				Sample ID: 22-002889-0001			
Analyte	Result	Org. Result	LOQ Units	RPD Limits		Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00 %	NA	<20	Acceptabl	
CBDV	<LOQ	<LOQ	3 %	NA	<20	e	
CBE	<LOQ	<LOQ	0.00 %	NA	<20	Acceptabl	
CBDA	<LOQ	<LOQ	3 %	NA	<20	e	
CBGA	<LOQ	<LOQ	0.00 %	NA	<20	Acceptabl	
CBG	<LOQ	<LOQ	3 %	NA	<20	e	
CBD	<LOQ	<LOQ	0.00 %	NA	<20	Acceptabl	
THCV	<LOQ	<LOQ	3 %	NA	<20	e	
Δ8THCV	0.00478	0.00475	0.00 %	0.775	<20	Acceptabl	
THCVA	<LOQ	<LOQ	3 %	NA	<20	e	
CBN	0.00304	<LOQ	0.00 %	NA	<20	Acceptabl	
exo-THC	<LOQ	<LOQ	3 %	NA	<20	e	R2
Δ9THC	<LOQ	<LOQ	0.00 %	NA	<20	Acceptabl	
Δ8THC	0.572	0.569	3 %	0.552	<20	e	
CBL	<LOQ	<LOQ	0.00 %	NA	<20	Acceptabl	
CBC	<LOQ	<LOQ	3 %	NA	<20	e	
THCA	<LOQ	<LOQ	0.00 %	NA	<20	Acceptabl	
CBCA	<LOQ	<LOQ	3 %	NA	<20	e	
CBLA	<LOQ	<LOQ	0.00 %	NA	<20	Acceptabl	
CBT	<LOQ	<LOQ	3 %	NA	<20	e	
			0.00			Acceptabl	
			3			e	
			0.00			Acceptabl	
			3			e	
			0.00			Acceptabl	
			3			e	
			0.00			Acceptabl	
			3			e	
			0.00			Acceptabl	
			3			e	
			0.00			Acceptabl	
			3			e	

Abbreviations
 ND - None Detected at or above MRL
 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.