



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



Report Number: 21-010974/D003.R000
Report Date: 09/29/2021
ORELAP#: OR100028
Purchase Order:
Received: 09/17/21 14:34

Customer: Healthy Roots
Product identity: Lavender Puck
Client/Metric ID: .
Laboratory ID: 21-010974-0003

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 104.5g117 mg/104.5g
CBC	0.00249		%		
CBC-A†	0.00394		%		
CBD	0.0461		%		THC-Total per 104.5g4.74 mg/104.5g
CBD-A	0.0753		%		
CBG†	0.00208		%		(Reported in milligrams per serving)
CBG-A†	0.00286		%		
CBT†	0.000703		%		
Δ9-THC	0.00327		%		
THC-A	0.00144		%		
Analyte per 104.5g	Result	Limits	Units	Status	
CBC per 104.5g†	2.60		mg/104.5g		
CBC-A per 104.5g†	4.12		mg/104.5g		
CBD per 104.5g	48.2		mg/104.5g		
CBD-A per 104.5g	78.7		mg/104.5g		
CBG per 104.5g†	2.17		mg/104.5g		
CBG-A per 104.5g†	2.99		mg/104.5g		
CBT per 104.5g†	0.735		mg/104.5g		
Δ9-THC per 104.5g	3.42		mg/104.5g		
THC-A per 104.5g	1.50		mg/104.5g		



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Customer: Healthy Roots

Product identity: Lavender Puck

Client/Metric ID: .

Sample Date:

Laboratory ID: 21-010974-0003

Evidence of Cooling: No

Temp: 21.8 °C

Relinquished by: client

Serving Size #1: 104.5 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2108507	Analyze: 9/21/21 11:22:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.00249		%	0.0007	
CBC-A [†]	0.00394		%	0.0007	
CBC-Total [†]	0.00595		%	0.0012	
CBD	0.0461		%	0.0007	
CBD-A	0.0753		%	0.0007	
CBD-Total	0.112		%	0.0012	
CBDV [†]	< LOQ		%	0.0007	
CBDV-A [†]	< LOQ		%	0.0007	
CBDV-Total [†]	< LOQ		%	0.0012	
CBE [†]	< LOQ		%	0.0007	
CBG [†]	0.00208		%	0.0007	
CBG-A [†]	0.00286		%	0.0007	
CBG-Total	0.00459		%	0.0012	
CBL [†]	< LOQ		%	0.0007	
CBL-A [†]	< LOQ		%	0.0007	
CBL-Total [†]	< LOQ		%	0.0012	
CBN	< LOQ		%	0.0007	
CBT [†]	0.000703		%	0.0007	
Δ8-THCV	< LOQ		%	0.0007	
Δ8-THC [†]	< LOQ		%	0.0007	
Δ9-THC	0.00327		%	0.0007	
THC-A	0.00144		%	0.0007	
THC-Total	0.00453		%	0.0012	
THCV [†]	< LOQ		%	0.0007	
THCV-A [†]	< LOQ		%	0.0007	
THCV-Total [†]	< LOQ		%	0.0012	
Total Cannabinoids[†]	0.138		%		

Potency per 104.5g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2108507	Analyze: 9/21/21 11:22:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 104.5g [†]	2.60		mg/104.5g	0.693	
CBC-A per 104.5g [†]	4.12		mg/104.5g	0.693	
CBC-Total per 104.5g [†]	6.21		mg/104.5g	1.30	



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Potency per 104.5g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2108507 Analyze: 9/21/21 11:22:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 104.5g	48.2		mg/104.5g	0.693	
CBD-A per 104.5g	78.7		mg/104.5g	0.693	
CBD-Total per 104.5g	117		mg/104.5g	1.30	
CBDV per 104.5g [†]	< LOQ		mg/104.5g	0.693	
CBDV-A per 104.5g [†]	< LOQ		mg/104.5g	0.693	
CBDV-Total per 104.5g [†]	< LOQ		mg/104.5g	1.29	
CBE per 104.5g [†]	< LOQ		mg/104.5g	0.693	
CBG per 104.5g [†]	2.17		mg/104.5g	0.693	
CBG-A per 104.5g [†]	2.99		mg/104.5g	0.693	
CBG-Total per 104.5g [†]	4.76		mg/104.5g	1.29	
CBL per 104.5g [†]	< LOQ		mg/104.5g	0.693	
CBL-A per 104.5g [†]	< LOQ		mg/104.5g	0.693	
CBL-Total per 104.5g [†]	< LOQ		mg/104.5g	1.30	
CBN per 104.5g	< LOQ		mg/104.5g	0.693	
CBT per 104.5g [†]	0.735		mg/104.5g	0.693	
Δ8-THCV per 104.5g [†]	< LOQ		mg/104.5g	0.693	
Δ8-THC per 104.5g [†]	< LOQ		mg/104.5g	0.693	
Δ9-THC per 104.5g	3.42		mg/104.5g	0.693	
exo-THC per 104.5g [†]	< LOQ		mg/104.5g	0.693	
THC-A per 104.5g	1.50		mg/104.5g	0.693	
THC-Total per 104.5g	4.74		mg/104.5g	1.30	
THCV per 104.5g [†]	< LOQ		mg/104.5g	0.693	
THCV-A per 104.5g [†]	< LOQ		mg/104.5g	0.693	
THCV-Total per 104.5g [†]	< LOQ		mg/104.5g	1.30	
Total Cannabinoids per 104.5g	144		mg/104.5g		



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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/104.5g = Milligram per 104.5g

% = 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

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				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 <i>Aerobic Plate Count, Staphylococcus, Pseudomonas</i>										Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input 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: _____										Sample Type †				Weight (Units)		Comments/Metric ID							
Lab ID	Client Sample Identification	Date	Time																								
	Lemongrass BB															T	198.5g										
	Lemongrass Puck															T	112g										
	Lavender Puck															T	104.5g										
	Bergamot Black Tea Bar Soap															T	152.7g										
	#168, Root Butter															T	25g										
Relinquished By: _____				Date				Time				Received By: _____				Date				Time				Lab Use Only:			
Merritt				9/17				2:20p				TS				9/17/21				14:34				<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): 21.8°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
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Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2108507								
Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	0.00922	0.01	%	92.2	85.0 - 115	Acceptable		
CBDV	0.00937	0.01	%	93.7	85.0 - 115	Acceptable		
CBE	0.0103	0.01	%	103	85.0 - 115	Acceptable		
CBDA	0.0100	0.01	%	100	85.0 - 115	Acceptable		
CBGA	0.00927	0.01	%	92.7	85.0 - 115	Acceptable		
CBG	0.00955	0.01	%	95.5	85.0 - 115	Acceptable		
CBD	0.0104	0.01	%	104	85.0 - 115	Acceptable		
THCV	0.00939	0.01	%	93.9	85.0 - 115	Acceptable		
d8THCV	0.00973	0.01	%	97.3	85.0 - 115	Acceptable		
THCVA	0.00857	0.01	%	85.7	85.0 - 115	Acceptable		
CBN	0.0107	0.01	%	107	85.0 - 115	Acceptable		
exo-THC	0.00927	0.01	%	92.7	85.0 - 115	Acceptable		
d9THC	0.0105	0.01	%	105	85.0 - 115	Acceptable		
d8THC	0.00956	0.01	%	95.6	85.0 - 115	Acceptable		
CBL	0.00873	0.01	%	87.3	85.0 - 115	Acceptable		
CBC	0.00967	0.01	%	96.7	85.0 - 115	Acceptable		
THCA	0.0104	0.01	%	104	85.0 - 115	Acceptable		
CBCA	0.00878	0.01	%	87.8	85.0 - 115	Acceptable		
CBLA	0.00996	0.01	%	99.6	85.0 - 115	Acceptable		
CBT	0.00958	0.01	%	95.8	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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Laboratory Quality Control Results

J AOAC 2015 V98-6						Batch ID: 2108507		
Sample Duplicate						Sample ID: 21-010931-0001		
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	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.0108	0.0106	0.003	%	1.88	< 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	0.319	0.321	0.003	%	0.732	< 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	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	<LOQ	0.00327	0.003	%	NA	< 20	Acceptable	R2

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation
NA - Calculation Not Applicable given non-numerical results
R2 - Sample replicates RPD non-calculable, as only one replicate is within analytical range.

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.