



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



Report Number: 22-000073/D005.R000
Report Date: 01/10/2022
ORELAP#: OR100028
Purchase Order:
Received: 01/04/22 14:42

Customer: Healthy Roots
Product identity: Lemongrass Puck
Client/Metric ID: .
Laboratory ID: 22-000073-0006

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 112.7g	122 mg/112.7g
CBC	0.00273		%			
CBD	0.108		%			
CBG [†]	0.000806		%		THC-Total per 112.7g	5.48 mg/112.7g
CBT [†]	0.00208		%			
Δ9-THC	0.00486		%			(Reported in milligrams per serving)
Analyte per 112.7g	Result	Limits	Units	Status		
CBC per 112.7g [†]	3.08		mg/112.7g			
CBD per 112.7g	122		mg/112.7g			
CBG per 112.7g [†]	0.908		mg/112.7g			
CBT per 112.7g [†]	2.34		mg/112.7g			
Δ9-THC per 112.7g	5.48		mg/112.7g			



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Customer: Healthy Roots
Product identity: Lemongrass Puck
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-000073-0006
Evidence of Cooling: No
Temp: 19.9 °C
Relinquished by: client
Serving Size #1: 112.7 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2200203	Analyze: 1/8/22 4:55:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.00273		%	0.0007	
CBC-A [†]	< LOQ		%	0.0007	
CBC-Total [†]	0.00273		%	0.0012	
CBD	0.108		%	0.0007	
CBD-A	< LOQ		%	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 [†]	0.000806		%	0.0007	
CBG-A [†]	< LOQ		%	0.0007	
CBG-Total	< LOQ		%	0.0012	
CBL [†]	< LOQ		%	0.0007	
CBL-A [†]	< LOQ		%	0.0007	
CBL-Total [†]	< LOQ		%	0.0012	
CBN	< LOQ		%	0.0007	
CBT [†]	0.00208		%	0.0007	
Δ8-THCV	< LOQ		%	0.0007	
Δ8-THC [†]	< LOQ		%	0.0007	
Δ9-THC	0.00486		%	0.0007	
THC-A	< LOQ		%	0.0007	
THC-Total	0.00486		%	0.0012	
THCV [†]	< LOQ		%	0.0007	
THCV-A [†]	< LOQ		%	0.0007	
THCV-Total [†]	< LOQ		%	0.0012	
Total Cannabinoids[†]	0.118		%		

Potency per 112.7g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2200203	Analyze: 1/8/22 4:55:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 112.7g [†]	3.08		mg/112.7g	0.748	
CBC-A per 112.7g [†]	< LOQ		mg/112.7g	0.748	
CBC-Total per 112.7g [†]	3.08		mg/112.7g	1.40	



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Potency per 112.7g Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2200203 Analyze: 1/8/22 4:55:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 112.7g	122		mg/112.7g	0.748	
CBD-A per 112.7g	< LOQ		mg/112.7g	0.748	
CBD-Total per 112.7g	122		mg/112.7g	1.40	
CBDV per 112.7g [†]	< LOQ		mg/112.7g	0.748	
CBDV-A per 112.7g [†]	< LOQ		mg/112.7g	0.748	
CBDV-Total per 112.7g [†]	< LOQ		mg/112.7g	1.40	
CBE per 112.7g [†]	< LOQ		mg/112.7g	0.748	
CBG per 112.7g [†]	0.908		mg/112.7g	0.748	
CBG-A per 112.7g [†]	< LOQ		mg/112.7g	0.748	
CBG-Total per 112.7g [†]	< LOQ		mg/112.7g	1.40	
CBL per 112.7g [†]	< LOQ		mg/112.7g	0.748	
CBL-A per 112.7g [†]	< LOQ		mg/112.7g	0.748	
CBL-Total per 112.7g [†]	< LOQ		mg/112.7g	1.40	
CBN per 112.7g	< LOQ		mg/112.7g	0.748	
CBT per 112.7g [†]	2.34		mg/112.7g	0.748	
Δ8-THCV per 112.7g [†]	< LOQ		mg/112.7g	0.748	
Δ8-THC per 112.7g [†]	< LOQ		mg/112.7g	0.748	
Δ9-THC per 112.7g	5.48		mg/112.7g	0.748	
exo-THC per 112.7g [†]	< LOQ		mg/112.7g	0.748	
THC-A per 112.7g	< LOQ		mg/112.7g	0.748	
THC-Total per 112.7g	5.48		mg/112.7g	1.40	
THCV per 112.7g [†]	< LOQ		mg/112.7g	0.748	
THCV-A per 112.7g [†]	< LOQ		mg/112.7g	0.748	
THCV-Total per 112.7g [†]	< LOQ		mg/112.7g	1.40	
Total Cannabinoids per 112.7g	134		mg/112.7g		



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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 = Gram

mg/112.7g = Milligram per 112.7g

% = Percentage of sample

% wt = $\mu\text{g/g}$ 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: _____			
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, Staphylococcus, Pseudomonas	Sample Type †	Weight (Units)	Comments/Metric ID
Lab ID	Client Sample Identification	Date	Time														
	Lawender BB	1/04/22				✓									T	201.6g	Report in mg/gr and % (percentage)
	Lemongrass BB					✓									T	204.8g	
	Citrus Hibiscus BB					✓									T	205.3g	
	Rosemary Mint BB					✓									T	207.9g	
	Lawender Puck					✓									T	111.5g	
	Lemongrass Puck					✓									T	112.7g	
	Citrus Hibiscus Puck					✓									T	110.6g	
	Rosemary Mint Puck					✓									T	105.2g	
Relinquished By: Merritt				Date: 1/04/22	Time: 2:00p	Received By: DS				Date: 1/4/22	Time: 14:42	Lab Use Only: ☐ Shipped Via: _____ or ☒ Client drop Evidence of cooling: ☐ Yes ☒ No - Temp (°C): 19.9°C Sample in good condition: ☒ Yes ☐ No ☐ Cash ☐ Check ☐ CC ☒ Net: Prelog storage: _____					

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Report Number: 22-000073/D005.R000
Report Date: 01/10/2022
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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: 2200203								
Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	0.00998	0.01	%	99.8	85.0 - 115	Acceptable		
CBDV	0.0102	0.01	%	102	85.0 - 115	Acceptable		
CBE	0.0111	0.01	%	111	85.0 - 115	Acceptable		
CBD A	0.0106	0.01	%	106	85.0 - 115	Acceptable		
CBGA	0.0101	0.01	%	101	85.0 - 115	Acceptable		
CBG	0.0103	0.01	%	103	85.0 - 115	Acceptable		
CBD	0.0107	0.01	%	107	85.0 - 115	Acceptable		
THCV	0.0102	0.01	%	102	85.0 - 115	Acceptable		
d8THCV	0.0108	0.01	%	108	85.0 - 115	Acceptable		
THCVA	0.00959	0.01	%	95.9	85.0 - 115	Acceptable		
CBN	0.0106	0.01	%	106	85.0 - 115	Acceptable		
exo-THC	0.0101	0.01	%	101	85.0 - 115	Acceptable		
d9THC	0.0104	0.01	%	104	85.0 - 115	Acceptable		
d8THC	0.0100	0.01	%	100	85.0 - 115	Acceptable		
CBL	0.00988	0.01	%	98.8	85.0 - 115	Acceptable		
CBC	0.0102	0.01	%	102	85.0 - 115	Acceptable		
THCA	0.00999	0.01	%	99.9	85.0 - 115	Acceptable		
CBCA	0.00969	0.01	%	96.9	85.0 - 115	Acceptable		
CBLA	0.0103	0.01	%	103	85.0 - 115	Acceptable		
CBT	0.0101	0.01	%	101	85.0 - 115	Acceptable		

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		
CBD A	<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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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: 2200203		
Sample Duplicate						Sample ID: 22-000070-0001		
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
CBDa	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
CBD	0.0148	0.0147	0.0006	%	0.557	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.0006	%	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.