



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



Report Number: 22-000073/D004.R000
Report Date: 01/10/2022
ORELAP#: OR100028
Purchase Order:
Received: 01/04/22 14:42

Customer: Healthy Roots
Product identity: Citrus Hibiscus Puck
Client/Metric ID: .
Laboratory ID: 22-000073-0007

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 110.6g	101 mg/110.6g
CBC	0.00194		%			
CBD	0.0916		%			
CBE†	0.00289		%		THC-Total per 110.6g	<LOQ
CBG†	0.00126		%			
CBN	0.00392		%			
CBT†	0.00416		%			
					(Reported in milligrams per serving)	
Analyte per 110.6g	Result	Limits	Units	Status		
CBC per 110.6g†	2.15		mg/110.6g			
CBD per 110.6g	101		mg/110.6g			
CBE per 110.6g†	3.20		mg/110.6g			
CBG per 110.6g†	1.39		mg/110.6g			
CBN per 110.6g	4.34		mg/110.6g			
CBT per 110.6g†	4.60		mg/110.6g			



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Customer: Healthy Roots
Product identity: Citrus Hibiscus Puck
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-000073-0007
Evidence of Cooling: No
Temp: 19.9 °C
Relinquished by: client
Serving Size #1: 110.6 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2200203	Analyze: 1/8/22 5:03:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.00194		%	0.0007	
CBC-A†	< LOQ		%	0.0007	
CBC-Total†	0.00194		%	0.0012	
CBD	0.0916		%	0.0007	
CBD-A	< LOQ		%	0.0007	
CBD-Total	0.0916		%	0.0012	
CBDV†	< LOQ		%	0.0007	
CBDV-A†	< LOQ		%	0.0007	
CBDV-Total†	< LOQ		%	0.0012	
CBE†	0.00289		%	0.0007	
CBG†	0.00126		%	0.0007	
CBG-A†	< LOQ		%	0.0007	
CBG-Total	0.00126		%	0.0012	
CBL†	< LOQ		%	0.0007	
CBL-A†	< LOQ		%	0.0007	
CBL-Total†	< LOQ		%	0.0012	
CBN	0.00392		%	0.0007	
CBT†	0.00416		%	0.0007	
Δ8-THCV	< LOQ		%	0.0007	
Δ8-THC†	< LOQ		%	0.0007	
Δ9-THC	< LOQ		%	0.0007	
THC-A	< LOQ		%	0.0007	
THC-Total	< LOQ		%	0.0012	
THCV†	< LOQ		%	0.0007	
THCV-A†	< LOQ		%	0.0007	
THCV-Total†	< LOQ		%	0.0012	
Total Cannabinoids†	0.106		%		

Potency per 110.6g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2200203	Analyze: 1/8/22 5:03:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 110.6g†	2.15		mg/110.6g	0.735	
CBC-A per 110.6g†	< LOQ		mg/110.6g	0.735	
CBC-Total per 110.6g†	2.15		mg/110.6g	1.38	



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Potency per 110.6g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2200203 Analyze: 1/8/22 5:03:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 110.6g	101		mg/110.6g	0.735	
CBD-A per 110.6g	< LOQ		mg/110.6g	0.735	
CBD-Total per 110.6g	101		mg/110.6g	1.38	
CBDV per 110.6g [†]	< LOQ		mg/110.6g	0.735	
CBDV-A per 110.6g [†]	< LOQ		mg/110.6g	0.735	
CBDV-Total per 110.6g [†]	< LOQ		mg/110.6g	1.37	
CBE per 110.6g [†]	3.20		mg/110.6g	0.735	
CBG per 110.6g [†]	1.39		mg/110.6g	0.735	
CBG-A per 110.6g [†]	< LOQ		mg/110.6g	0.735	
CBG-Total per 110.6g [†]	1.39		mg/110.6g	1.37	
CBL per 110.6g [†]	< LOQ		mg/110.6g	0.735	
CBL-A per 110.6g [†]	< LOQ		mg/110.6g	0.735	
CBL-Total per 110.6g [†]	< LOQ		mg/110.6g	1.38	
CBN per 110.6g	4.34		mg/110.6g	0.735	
CBT per 110.6g [†]	4.60		mg/110.6g	0.735	
Δ8-THCV per 110.6g [†]	< LOQ		mg/110.6g	0.735	
Δ8-THC per 110.6g [†]	< LOQ		mg/110.6g	0.735	
Δ9-THC per 110.6g	< LOQ		mg/110.6g	0.735	
exo-THC per 110.6g [†]	< LOQ		mg/110.6g	0.735	
THC-A per 110.6g	< LOQ		mg/110.6g	0.735	
THC-Total per 110.6g	< LOQ		mg/110.6g	1.38	
THCV per 110.6g [†]	< LOQ		mg/110.6g	0.735	
THCV-A per 110.6g [†]	< LOQ		mg/110.6g	0.735	
THCV-Total per 110.6g [†]	< LOQ		mg/110.6g	1.38	
Total Cannabinoids per 110.6g	117		mg/110.6g		



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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/110.6g = Milligram per 110.6g

% = 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: _____			
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: <input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): 19.9°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 checked="" 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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P: (503) 254-1794 | Fax: (503) 254-1452
info@columbiaboratories.com

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Revision #: 0.00 Control : CFL-D06
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

JAOAC2015 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

JAOAC2015 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	
CBD A	<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	
CBG	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0006	%	NA	< 20	Acceptable	
CBGA	<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.