



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

Report Number: 22-
Report Date: 002969/D008.R000
ORELAP#: 03/21/2022
Purchase Order: OR100028
Received: 03/15/22 14:19



Customer: Healthy Roots
Product identity: Citrus Puck #10.A
Client/Metric ID: .
Laboratory ID: 22-002969-0004

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBC	0.00924		%		CBD-Total per 113g 116 mg/113g
CBD	0.101		%		
CBD-A	0.00195		%		THC-Total per 113g 3.97 mg/113g
CBG†	0.00114		%		
Δ9-THC	0.00351		%		(Reported in milligrams per serving)
Analyte per 113g	Result	Limits	Units	Status	
CBC per 113g	10.		mg/113		
CBD per 113g	4		g		
CBD-A per 113g	114		mg/113		
CBGper113g†	2.2		g		
Δ9-THC per113g	0		mg/113		
	1.2		g		
	9		mg/113		
	3.9		g		
	7		mg/113		
			g		



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Customer: Healthy Roots
Product identity: Citrus Puck #10.A
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-002969-0004
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	0.00924		%	0.0007	
CBC-A†	<LOQ		%	0.0007	
CBC-Total †	0.00924		%	0.0012	
CBD	0.101		%	0.0007	
CBD-A	0.00195		%	0.0007	
CBD-Total	0.103		%	0.0012	
CBDV †	<LOQ		%	0.0007	
CBDV-A†	<LOQ		%	0.0007	
CBDV-Total †	<LOQ		%	0.0012	
CBE†	<LOQ		%	0.0007	
CBG†	0.00114		%	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†	<LOQ		%	0.0007	
Δ8-THCV	<LOQ		%	0.0007	
Δ8-THC†	<LOQ		%	0.0007	
Δ9-THC	0.00351		%	0.0007	
THC-A	<LOQ		%	0.0007	
THC-Total	0.00351		%	0.0007	
THCV†	<LOQ		%	0.0012	
THCV-A†	<LOQ		%	0.0007	
THCV-Total†	<LOQ		%	0.0007	
TotalCannabinoids†	0.117		%	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†	10.4		mg/113g	0.74	
CBC-Aper113g†	<LOQ		mg/113g	9	
CBC-Total per113g†	10.4		mg/113g	0.74	
				9	
				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	114		mg/113g	0.74	
CBD-A per 113g	2.20		mg/113g	9	
CBD-Total per 113g	116		mg/113g	0.74	
CBDV per 113g†	<LOQ		mg/113g	9	
CBDV-Aper 113g†	<LOQ		mg/113g	1.41	
CBDV-Total per 113g†	<LOQ		mg/113g	0.74	
CBE per 113g†	<LOQ		mg/113g	9	
CBGper 113g†	1.29		mg/113g	0.74	
CBG-A per 113g†	<LOQ		mg/113g	9	
CBG-Total per 113g†	<LOQ		mg/113g	1.40	
CBL per 113g†	<LOQ		mg/113g	0.74	
CBL-Aper 113g†	<LOQ		mg/113g	9	
CBL-Total per 113g†	<LOQ		mg/113g	0.74	
CBN per 113g	<LOQ		mg/113g	9	
CBTper 113g†	<LOQ		mg/113g	0.74	
Δ8-THCV per 113g†	<LOQ		mg/113g	9	
Δ8-THC per 113g†	<LOQ		mg/113g	1.40	
Δ9-THC per 113g	3.97		mg/113g	0.74	
exo-THC per 113g†	<LOQ		mg/113g	9	
THC-A per 113g	<LOQ		mg/113g	9	
THC-Total per 113g	3.97		mg/113g	0.74	
THCV per 113g†	<LOQ		mg/113g	9	
THCV-A per 113g†	<LOQ		mg/113g	1.41	
THCV-Total per 113g†	<LOQ		mg/113g	0.74	
Total Cannabinoids per 113g	132		mg/113g	9	
			mg/113g	0.74	
				9	
				0.74	
				9	
				0.74	
				9	
				0.74	
				9	
				1.41	
				0.74	
				9	
				0.74	
				9	
				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.
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These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

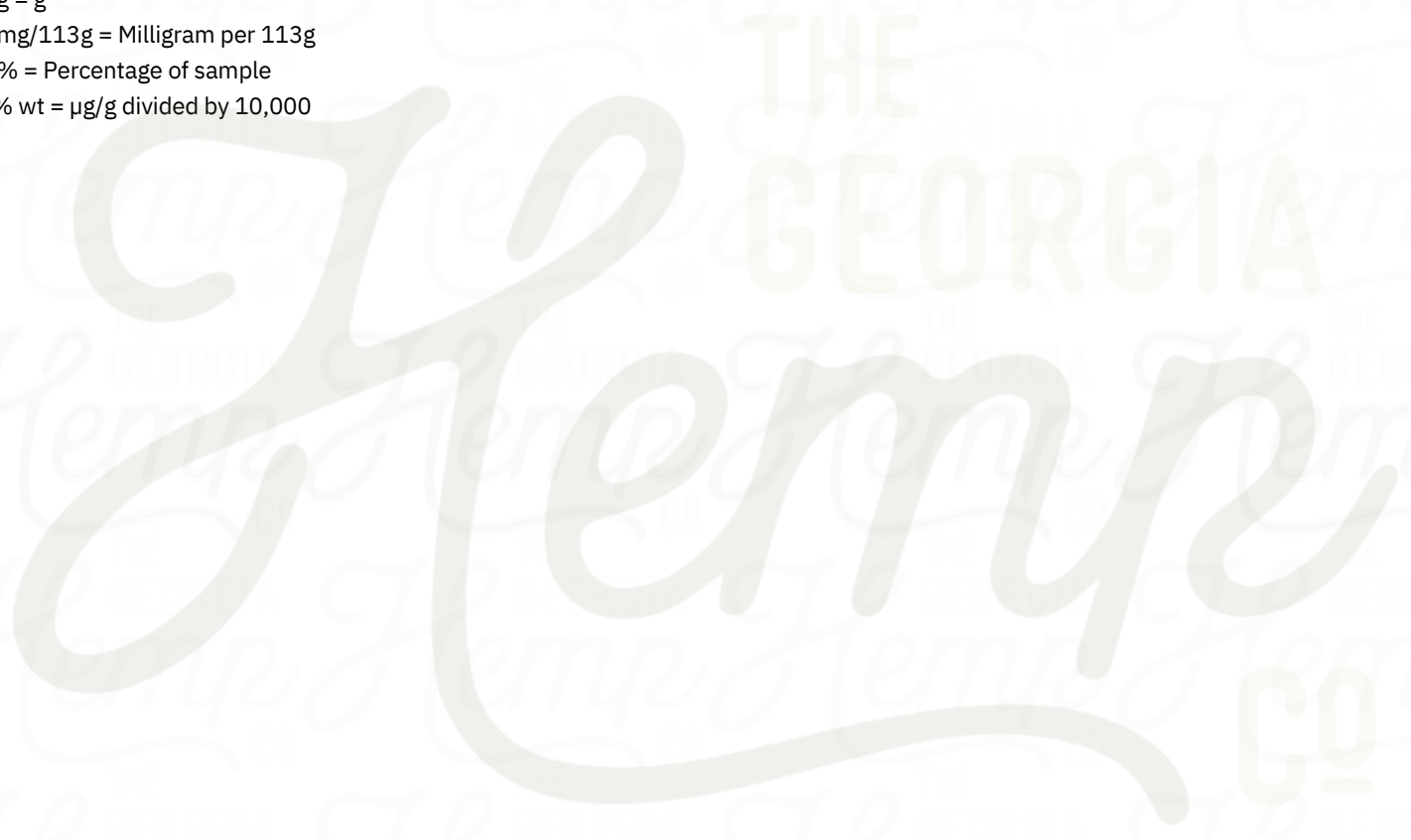
Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

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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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		
Method Blank	0.0097	1		97	0		
	0	0.0		0	80, 12		
Analyte	Result	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	<LOQ	0.000	%	0	< 0.0006	Acceptable	
CBDV	<LOQ	0.000	%	0	< 0.0006	Acceptable	
CBE	<LOQ	0.000	%	0	< 0.0006	Acceptable	
CBDA	0.0078	0.000	%	79	80, - 0.0006	Acceptable	
CBGA	<LOQ	0.000	%	0	< 0.0006	Acceptable	
CBG	<LOQ	0.000	%	0	< 0.0006	Acceptable	
CBD	<LOQ	0.000	%	0	< 0.0006	Acceptable	
THCV	<LOQ	0.000	%	0	< 0.0006	Acceptable	
d8THCV	<LOQ	0.000	%	0	< 0.0006	Acceptable	
THCVA	<LOQ	0.000	%	0	< 0.0006	Acceptable	
CBN	<LOQ	0.000	%	0	< 0.0006	Acceptable	
exo-THC	<LOQ	0.000	%	0	< 0.0006	Acceptable	
u9THC	<LOQ	0.000	%	0	< 0.0006	Acceptable	
d8THC	<LOQ	0.000	%	0	< 0.0006	Acceptable	
CBL	<LOQ	0.000	%	0	< 0.0006	Acceptable	
CBC	<LOQ	0.000	%	0	< 0.0006	Acceptable	
THCA	<LOQ	0.000	%	0	< 0.0006	Acceptable	
CBCA	<LOQ	0.000	%	0	< 0.0006	Acceptable	
CBLA	<LOQ	0.000	%	0	< 0.0006	Acceptable	
CBT	<LOQ	0.000	%	0	< 0.0006	Acceptable	
	0.000	0.000		0			

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.