



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



Report Number: 22-000905/D003.R000
Report Date: 01/31/2022
ORELAP#: OR100028
Purchase Order:
Received: 01/25/22 14:00

Customer: Healthy Roots
Product identity: #5, Blue Raspberry
Client/Metric ID: .
Laboratory ID: 22-000905-0004

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBD	0.756		%		CBD-Total per 4g 30.2 mg/4g
Analyte per 4g	Result	Limits	Units	Status	
CBD per 4g	30.2		mg/4g		THC-Total per 4g <LOQ
(Reported in milligrams per serving)					



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Customer: Healthy Roots
Product identity: #5, Blue Raspberry
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-000905-0004
Evidence of Cooling: No
Temp: 20.3 °C
Relinquished by: Client
Serving Size #1: 4 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2200788	Analyze: 1/27/22 9:31:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.0033	
CBC-A†	< LOQ		%	0.0033	
CBC-Total†	< LOQ		%	0.0061	
CBD	0.756		%	0.0033	
CBD-A	< LOQ		%	0.0033	
CBD-Total	0.756		%	0.0061	
CBDV†	< LOQ		%	0.0033	
CBDV-A†	< LOQ		%	0.0033	
CBDV-Total†	< LOQ		%	0.0061	
CBE†	< LOQ		%	0.0033	
CBG†	< LOQ		%	0.0033	
CBG-A†	< LOQ		%	0.0033	
CBG-Total	< LOQ		%	0.0061	
CBL†	< LOQ		%	0.0033	
CBL-A†	< LOQ		%	0.0033	
CBL-Total†	< LOQ		%	0.0061	
CBN	< LOQ		%	0.0033	
CBT†	< LOQ		%	0.0033	
Δ8-THCV	< LOQ		%	0.0033	
Δ8-THC†	< LOQ		%	0.0033	
Δ9-THC	< LOQ		%	0.0033	
THC-A	< LOQ		%	0.0033	
THC-Total	< LOQ		%	0.0061	
THCV†	< LOQ		%	0.0033	
THCV-A†	< LOQ		%	0.0033	
THCV-Total†	< LOQ		%	0.0061	
Total Cannabinoids†	0.756		%		

Potency per 4g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2200788	Analyze: 1/27/22 9:31:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g†	< LOQ		mg/4g	0.131	
CBC-A per 4g†	< LOQ		mg/4g	0.131	
CBC-Total per 4g†	< LOQ		mg/4g	0.246	



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Potency per 4g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2200788 Analyze: 1/27/22 9:31:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 4g	30.2		mg/4g	0.131	
CBD-A per 4g	< LOQ		mg/4g	0.131	
CBD-Total per 4g	30.2		mg/4g	0.246	
CBDV per 4g†	< LOQ		mg/4g	0.131	
CBDV-A per 4g†	< LOQ		mg/4g	0.131	
CBDV-Total per 4g†	< LOQ		mg/4g	0.244	
CBE per 4g†	< LOQ		mg/4g	0.131	
CBG per 4g†	< LOQ		mg/4g	0.131	
CBG-A per 4g†	< LOQ		mg/4g	0.131	
CBG-Total per 4g†	< LOQ		mg/4g	0.244	
CBL per 4g†	< LOQ		mg/4g	0.131	
CBL-A per 4g†	< LOQ		mg/4g	0.131	
CBL-Total per 4g†	< LOQ		mg/4g	0.246	
CBN per 4g	< LOQ		mg/4g	0.131	
CBT per 4g†	< LOQ		mg/4g	0.131	
Δ8-THCV per 4g†	< LOQ		mg/4g	0.131	
Δ8-THC per 4g†	< LOQ		mg/4g	0.131	
Δ9-THC per 4g	< LOQ		mg/4g	0.131	
exo-THC per 4g†	< LOQ		mg/4g	0.131	
THC-A per 4g	< LOQ		mg/4g	0.131	
THC-Total per 4g	< LOQ		mg/4g	0.246	
THCV per 4g†	< LOQ		mg/4g	0.131	
THCV-A per 4g†	< LOQ		mg/4g	0.131	
THCV-Total per 4g†	< LOQ		mg/4g	0.246	
Total Cannabinoids per 4g	30.2		mg/4g		



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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/4g = Milligram per 4g

% = 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	Herbicide Plate Count, Salmonella, Staphylococcus, Pseudomonas	Sample Type	Weight (Units)	Comments/Metric ID		
Billing (if different): _____																			
* Please add: Compliance @ Healthyrootshemp.com																			
Lab ID	Client Sample Identification	Date	Time																
	#191, Facial Oil	1/25/22													T	16g			
	#5, Tropical Punch														E	3.9g			
	#5, Orange Mango														E	4.1g			
	#5, Blue Raspberry														E	4g			
	#5, Watermelon														E	4.1g			
Relinquished By: _____				Received By: _____				Date				Time				Lab Use Only:			
Merritt				DS				1/25/22				14:00				<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): 20.3°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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P: (503) 254-1794 | Fax: (503) 254-1452
info@columbialaboratories.com

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

Laboratory Quality Control Results

JAOAC2015 V98-6				Batch ID: 2200788					
Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDVA	0.0102	0.01	%	102	85.0	- 115	Acceptable		
CBDV	0.0102	0.01	%	102	85.0	- 115	Acceptable		
CBE	0.0104	0.01	%	104	85.0	- 115	Acceptable		
CBD A	0.0108	0.01	%	108	85.0	- 115	Acceptable		
CBGA	0.0101	0.01	%	101	85.0	- 115	Acceptable		
CBG	0.00992	0.01	%	99.2	85.0	- 115	Acceptable		
CBD	0.0104	0.01	%	104	85.0	- 115	Acceptable		
THCV	0.00989	0.01	%	98.9	85.0	- 115	Acceptable		
d8THCV	0.0101	0.01	%	101	85.0	- 115	Acceptable		
THCVA	0.00993	0.01	%	99.3	85.0	- 115	Acceptable		
CBN	0.0106	0.01	%	106	85.0	- 115	Acceptable		
exo-THC	0.00952	0.01	%	95.2	85.0	- 115	Acceptable		
d9THC	0.0103	0.01	%	103	85.0	- 115	Acceptable		
d8THC	0.00940	0.01	%	94.0	85.0	- 115	Acceptable		
CBL	0.00925	0.01	%	92.5	85.0	- 115	Acceptable		
CBC	0.00996	0.01	%	99.6	85.0	- 115	Acceptable		
THCA	0.0106	0.01	%	106	85.0	- 115	Acceptable		
CBGA	0.0103	0.01	%	103	85.0	- 115	Acceptable		
CBLA	0.0102	0.01	%	102	85.0	- 115	Acceptable		
CBT	0.00921	0.01	%	92.1	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		
CBD A	<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		
CBGA	<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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Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V98-6								
Batch ID: 2200788								
Sample Duplicate								
Sample ID: 22-000745-0001-01								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.00521	0.00525	0.003	%	0.835	< 20	Acceptable	
CBE	0.0173	0.0172	0.003	%	0.345	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.00883	0.00875	0.003	%	0.894	< 20	Acceptable	
CBD	1.07	1.07	0.003	%	0.512	< 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	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CB	<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	<LOQ	0.003	%	NA	< 20	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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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.