



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



Report Number: 22-004112/D002.R000
Report Date: 04/18/2022
ORELAP#: OR100028
Purchase Order:
Received: 04/12/22 14:38

Customer: Healthy Roots
Product identity: #204, 200 Pet
Client/Metric ID: .
Laboratory ID: 22-004112-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g	201 mg/28.5g
CBC	0.0165		%			
CBD	0.700		%			
CBD-A	0.00638		%		THC-Total per 28.5g	7.15 mg/28.5g
CBDV†	0.00322		%		(Reported in milligrams per serving)	
CBG†	0.00667		%			
CBG-A†	0.00868		%			
CBT†	0.0108		%			
Δ8-THC†	0.00864		%			
Δ9-THC	0.0251		%			
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g†	4.70		mg/28.5g			
CBD per 28.5g	200		mg/28.5g			
CBD-A per 28.5g	1.82		mg/28.5g			
CBDV per 28.5g†	0.918		mg/28.5g			
CBG per 28.5g†	1.90		mg/28.5g			
CBG-A per 28.5g†	2.47		mg/28.5g			
CBT per 28.5g†	3.08		mg/28.5g			
Δ8-THC per 28.5g†	2.46		mg/28.5g			
Δ9-THC per 28.5g	7.15		mg/28.5g			



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Customer: Healthy Roots
Product identity: #204, 200 Pet
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-004112-0001
Evidence of Cooling: No
Temp: 20.2 °C
Relinquished by: Client
Serving Size #1: 28.5 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2203188	Analyze: 4/14/22 10:55:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0165		%	0.0032	
CBC-A†	< LOQ		%	0.0032	
CBC-Total†	0.0165		%	0.0060	
CBD	0.700		%	0.0032	
CBD-A	0.00638		%	0.0032	
CBD-Total	0.706		%	0.0060	
CBDV†	0.00322		%	0.0032	
CBDV-A†	< LOQ		%	0.0032	
CBDV-Total†	< LOQ		%	0.0060	
CBE†	< LOQ		%	0.0032	
CBG†	0.00667		%	0.0032	
CBG-A†	0.00868		%	0.0032	
CBG-Total	0.0143		%	0.0060	
CBL†	< LOQ		%	0.0032	
CBL-A†	< LOQ		%	0.0032	
CBL-Total†	< LOQ		%	0.0060	
CBN	< LOQ		%	0.0032	
CBT†	0.0108		%	0.0032	
Δ8-THCV	< LOQ		%	0.0032	
Δ8-THC†	0.00864		%	0.0032	
Δ9-THC	0.0251		%	0.0032	
THC-A	< LOQ		%	0.0032	
THC-Total	0.0251		%	0.0060	
THCV†	< LOQ		%	0.0032	
THCV-A†	< LOQ		%	0.0032	
THCV-Total†	< LOQ		%	0.0060	
Total Cannabinoids†	0.786		%		

Potency per 28.5g		Method J AOAC 2015 V98-6 (mod)Units mg/se		Batch: 2203188	Analyze: 4/14/22 10:55:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g†	4.70		mg/28.5g	0.912	
CBC-A per 28.5g†	< LOQ		mg/28.5g	0.912	



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Potency per 28.5g Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2203188 Analyze: 4/14/22 10:55:00 AM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC-Total per 28.5g†	4.70		mg/28.5g	1.71	
CBD per 28.5g	200		mg/28.5g	0.912	
CBD-A per 28.5g	1.82		mg/28.5g	0.912	
CBD-Total per 28.5g	201		mg/28.5g	1.71	
CBDV per 28.5g†	0.918		mg/28.5g	0.912	
CBDV-A per 28.5g†	< LOQ		mg/28.5g	0.912	
CBDV-Total per 28.5g†	< LOQ		mg/28.5g	1.70	
CBE per 28.5g†	< LOQ		mg/28.5g	0.912	
CBG per 28.5g†	1.90		mg/28.5g	0.912	
CBG-A per 28.5g†	2.47		mg/28.5g	0.912	
CBG-Total per 28.5g†	4.05		mg/28.5g	1.70	
CBL per 28.5g†	< LOQ		mg/28.5g	0.912	
CBL-A per 28.5g†	< LOQ		mg/28.5g	0.912	
CBL-Total per 28.5g†	< LOQ		mg/28.5g	1.71	
CBN per 28.5g	< LOQ		mg/28.5g	0.912	
CBT per 28.5g†	3.08		mg/28.5g	0.912	
Δ8-THCV per 28.5g†	< LOQ		mg/28.5g	0.912	
Δ8-THC per 28.5g†	2.46		mg/28.5g	0.912	
Δ9-THC per 28.5g	7.15		mg/28.5g	0.912	
exo-THC per 28.5g†	< LOQ		mg/28.5g	0.912	
THC-A per 28.5g	< LOQ		mg/28.5g	0.912	
THC-Total per 28.5g	7.15		mg/28.5g	1.71	
THCV per 28.5g†	< LOQ		mg/28.5g	0.912	
THCV-A per 28.5g†	< LOQ		mg/28.5g	0.912	
THCV-Total per 28.5g†	< LOQ		mg/28.5g	1.71	
Total Cannabinoids per 28.5g	224		mg/28.5g		



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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, 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/28.5g = Milligram per 28.5g

% = 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

CHAIN OF CUSTODY				Analysis Requested												Sample		Weight		Comments/Metric ID
Lab ID	Client Sample Identification	Date	Time	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	Other	Type †	(Units)				
	#204, 200 Pet	4/12				✓									T	28.5g				
Billing (if different):																				Report in mg/gr and % (percentage)
* Please add: Compliance @ Healthyroots.com																				
Relinquished By:				Received By:								Lab Use Only:								
melton				DS								Shipped Via: <input checked="" type="checkbox"/> Client drop								
4/12/22 2:00p				4/12/22 14:38				Evidence of cooling: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): 20.2°C												
												Sample in good condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
												Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net:								
												Prelog storage:								

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† - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)

P: (503) 254-1794 / Fax: (503) 254-1452
info@columbiaboratories.com

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www.columbiaboratories.com



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

Laboratory Quality Control Results

J AOAC 2015 V98-6							
Batch ID: 2203188							
Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.0324	0.033	%	97.1	80.0 - 120	Acceptable	
CBDV	0.0367	0.033	%	110	80.0 - 120	Acceptable	
CBE	0.0321	0.033	%	96.3	80.0 - 120	Acceptable	
CBD A	0.0349	0.033	%	105	90.0 - 110	Acceptable	
CBGA	0.0323	0.033	%	97.0	80.0 - 120	Acceptable	
CBG	0.0325	0.033	%	97.4	80.0 - 120	Acceptable	
CBD	0.0347	0.033	%	104	90.0 - 110	Acceptable	
THCV	0.0318	0.033	%	95.3	80.0 - 120	Acceptable	
d8THCV	0.0332	0.033	%	99.7	80.0 - 120	Acceptable	
THCVA	0.0304	0.033	%	91.3	80.0 - 120	Acceptable	
CBN	0.0321	0.033	%	96.2	90.0 - 110	Acceptable	
exo-THC	0.0312	0.033	%	93.5	80.0 - 120	Acceptable	
d9THC	0.0331	0.033	%	99.3	90.0 - 110	Acceptable	
d8THC	0.0319	0.033	%	95.7	90.0 - 110	Acceptable	
CBL	0.0304	0.033	%	91.3	80.0 - 120	Acceptable	
CBC	0.0321	0.033	%	96.2	80.0 - 120	Acceptable	
THCA	0.0331	0.033	%	99.2	90.0 - 110	Acceptable	
CBCA	0.0329	0.033	%	98.8	80.0 - 120	Acceptable	
CBLA	0.0341	0.033	%	102	80.0 - 120	Acceptable	
CBT	0.0311	0.033	%	93.3	80.0 - 120	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	0.0107	0.003	%	< 0.003	Outlier	81
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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Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6						Batch ID: 2203188		
Sample Duplicate						Sample ID: 22-003842-0001-01		
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	0.00426	0.00431	0.003	%	1.11	< 20	Acceptable	
CBGA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBG	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.647	0.651	0.003	%	0.490	< 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	0.630	0.627	0.003	%	0.606	< 20	Acceptable	
CBL	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0239	0.0239	0.003	%	0.00421	< 20	Acceptable	
THCA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	< 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.