



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

Report Number: 21-013253/D003.R001
Report Date: 11/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/10/2114:36



This is an amended version of report# 21-013253/D003.R000.
 Reason: Sample re-extracted for potency.

Customer: Magic City Organics
Product identity: #180, 500 Pet
Client/Metric ID: .
Laboratory ID: 21-013253-0003

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBC	0.0555		%		CBD-Totalper28.5g 584 mg/28.5g
CBD	2.05		%		
CBDV†	0.0116		%		THC-Totalper28.5g 24.1 mg/28.5g
CBE†	0.0141		%		
CBG†	0.0167		%		(Reported in milligrams per serving)
CBN	0.00798		%		
CBT†	0.0386		%		
Δ ⁹ -THC	0.0844		%		
Analyte per 28.5g	Result	Limits	Units	Status	
CBCper28.5g†	15.8		mg/28.5g		
CBDper28.5g	584		mg/28.5g		
CBDVper28.5g†	3.31		mg/28.5g		
CBEper28.5g†	4.02		mg/28.5g		
CBGper28.5g†	4.76		mg/28.5g		
CBNper28.5g	2.27		mg/28.5g		
CBTper28.5g†	11.0		mg/28.5g		
Δ ⁹ -THCper28.5g	24.1		mg/28.5g		



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Customer: Healthy Roots
Product identity: #180, 500 Pet
Client/Metric ID: .
Sample Date:
Laboratory ID: 21-013253-0003
Evidence of Cooling: No
Temp: 20.7 °C
Relinquished by: Client
Serving Size #1: 28.5 g

Sample Results


Potency					
Method J AOAC 2015 V98-6 (mod) Units %Batch: 2110535 Analyze: 11/19/21 11:21:00 P					
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0555		%	0.0032	
CBC-A†	<LOQ		%	0.0032	
CBC-Total†	0.0555		%	0.0061	
CBD	2.05		%	0.0325	
CBD-A	<LOQ		%	0.0032	
CBD-Total	2.05		%	0.0353	
CBDV†	0.0116		%	0.0032	
CBDV-A†	<LOQ		%	0.0032	
CBDV-Total†	0.0116		%	0.0061	
CBE†	0.0141		%	0.0032	
CBG†	0.0167		%	0.0032	
CBG-A†	<LOQ		%	0.0032	
CBG-Total	0.0167		%	0.0061	
CBL†	<LOQ		%	0.0032	
CBL-A†	<LOQ		%	0.0032	
CBL-Total†	<LOQ		%	0.0061	
CBN	0.00798		%	0.0032	
CBT†	0.0386		%	0.0032	
Δ8-THCV	<LOQ		%	0.0032	
Δ8-THC†	<LOQ		%	0.0032	
Δ9-THC	0.0844		%	0.0032	
THC-A	<LOQ		%	0.0032	
THC-Total	0.0844		%	0.0061	
THCV†	<LOQ		%	0.0032	
THCV-A†	<LOQ		%	0.0032	
THCV-Total†	<LOQ		%	0.0032	
TotalCannabinoids†	2.28		%	0.0061	

Potency per 28.5g					
Method J AOAC 2015 V98-6 (mod) Units mg/seBatch: 2110535 Analyze: 11/19/21 11:21:00 P					
Analyte	Result	Limits	Units	LOQ	Notes
CBCper28.5g†	15.8		mg/28.5g	0.925	
CBC-Aper28.5g†	<LOQ		mg/28.5g	0.925	
CBC-Totalper28.5g†	15.8		mg/28.5g	1.74	

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 Testing in accordance with: OAR 333-007-0430



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Potency per 28.5g Method J AOAC 2015 V98-6 (mod)Units mg/seBatch: 2110535Analyze: 11/19/21 11:21:00 P

Analyte	Result	Limits	Units	LOQ	Notes
CBDper28.5g	584		mg/28.5g	9.25	
CBD-Aper28.5g	<LOQ		mg/28.5g	0.925	
CBD-Totalper28.5g	584		mg/28.5g	10.1	
CBDVper28.5g†	3.31		mg/28.5g	0.925	
CBDV-Aper28.5g†	<LOQ		mg/28.5g	0.925	
CBDV-Totalper28.5g†	3.31		mg/28.5g	1.73	
CBEper28.5g†	4.02		mg/28.5g	0.925	
CBGper28.5g†	4.76		mg/28.5g	0.925	
CBG-Aper28.5g†	<LOQ		mg/28.5g	0.925	
CBG-Totalper28.5g†	4.76		mg/28.5g	1.73	
CBLper28.5g†	<LOQ		mg/28.5g	0.925	
CBL-Aper28.5g†	<LOQ		mg/28.5g	0.925	
CBL-Totalper28.5g†	<LOQ		mg/28.5g	1.74	
CBNper28.5g	2.27		mg/28.5g	0.925	
CBTper28.5g†	11.0		mg/28.5g	0.925	
Δ8-THCVper28.5g†	<LOQ		mg/28.5g	0.925	
Δ8-THCper28.5g†	<LOQ		mg/28.5g	0.925	
Δ9-THCper28.5g	24.1		mg/28.5g	0.925	
exo-THCper28.5g†	<LOQ		mg/28.5g	0.925	
THC-Aper28.5g	<LOQ		mg/28.5g	0.925	
THC-Totalper28.5g	24.1		mg/28.5g	1.74	
THCVper28.5g†	<LOQ		mg/28.5g	0.925	
THCV-Aper28.5g†	<LOQ		mg/28.5g	0.925	
THCV-Totalper28.5g†	<LOQ		mg/28.5g	1.74	
TotalCannabinoidsper28.5g	649		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 = Gram

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

Company: CHAIN OF CUSTODY 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				Analysis Requested										PO Number: Project Number: Project Name: Custom Reporting: Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: Turnaround time: <input checked="" type="checkbox"/> 5 Business Day Standard Turnaround <input type="checkbox"/> 3 Business Day Rush Turnaround* <input checked="" type="checkbox"/> 2 Business Day Rush Turnaround* *Check for availability			
Billing (if different): Compliance@healthyrootshemp.com				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: <i>Aerobic Plate Count, Salmonella, Staphylococcus, Pseudomonas</i>										Sampled by: Sample Type † Weight (Units) Comments/Metric ID			
Lab ID	Client Sample Identification	Date	Time														
	#7, BB Base	11/10												T	200g		please do 2 day Rush turnaround on this item only!
	#178, 200 Root Butter	11/10												T	50g		
	#179, 200 Pet	11/10												T	28.5g		5 day turnaround for rest of tests!
	#180, 500 Pet	11/10												T	28.5g		Report in mg/gr and % (percentage)
	#181, 800 Pet	11/10												T	28.5g		Thank you! Erica
Relinquished By:		Date	Time	Received By:		Date	Time	Lab Use Only: <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): 20.7°C Sample in good condition: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: Prelog storage: _____									
Merritt		11/10	2:15p	JS		11/10/21	14:36										

† - 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
 Portland, OR 97230
 P: (503) 254-1794 | Fax: (503) 254-1452
 info@columbiolaboratories.com
 Page _____ of _____
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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:2110535

Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.0100	0.01	%	100	85.0 - 115	Acceptable	
CBDV	0.0110	0.01	%	110	85.0 - 115	Acceptable	
CBE	0.00987	0.01	%	98.7	85.0 - 115	Acceptable	
CBDA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBGA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBG	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBD	0.00985	0.01	%	98.5	85.0 - 115	Acceptable	
THCV	0.0101	0.01	%	101	85.0 - 115	Acceptable	
d8THCV	0.00950	0.01	%	95.0	85.0 - 115	Acceptable	
THCVA	0.00985	0.01	%	98.5	85.0 - 115	Acceptable	
CBN	0.00993	0.01	%	99.3	85.0 - 115	Acceptable	
exo-THC	0.00988	0.01	%	98.8	85.0 - 115	Acceptable	
d9THC	0.00961	0.01	%	96.1	85.0 - 115	Acceptable	
d8THC	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBL	0.00981	0.01	%	98.1	85.0 - 115	Acceptable	
CBC	0.0105	0.01	%	105	85.0 - 115	Acceptable	
THCA	0.00984	0.01	%	98.4	85.0 - 115	Acceptable	
CRCA	0.0104	0.01	%	104	85.0 - 115	Acceptable	
CBLA	0.00986	0.01	%	98.6	85.0 - 115	Acceptable	
CBT	0.0113	0.01	%	113	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	
CBDA	<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	
CRCA	<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 #: 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: 2110535								
Sample Duplicate								
Sample ID: 21-010754-0004								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBDV	0.00675	0.00689	0.003	%	2.04	<20	Acceptable	
CBE	0.00815	0.00830	0.003	%	1.82	<20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	<20	Acceptable	
CBD	2.17	2.19	0.003	%	0.617	<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	
CBG	<LOQ	<LOQ	0.003	%	NA	<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
- 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.