



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



Report Number: 21-014347/D002.R000
Report Date: 12/14/2021
ORELAP#: OR100028
Purchase Order:
Received: 12/08/21 14:25

Customer: Healthy Roots
Product identity: #184, 800 Lotion
Client/Metric ID: .
Laboratory ID: 21-014347-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 130g	861 mg/130g
CBC	0.00643		%			
CBD	0.662		%			
CBE†	0.00420		%		THC-Total per 130g	14.3 mg/130g
CBT†	0.00530		%			
Δ9-THC	0.0110		%			(Reported in milligrams per serving)
Analyte per 130g	Result	Limits	Units	Status		
CBC per 130g†	8.36		mg/130g			
CBD per 130g	861		mg/130g			
CBE per 130g†	5.46		mg/130g			
CBT per 130g†	6.89		mg/130g			
Δ9-THC per 130g	14.3		mg/130g			



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Customer: Healthy Roots
Product identity: #184, 800 Lotion
Client/Metric ID: .
Sample Date:
Laboratory ID: 21-014347-0001
Evidence of Cooling: No
Temp: 19.3 °C
Relinquished by: Client
Serving Size #1: 130 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2111028	Analyze: 12/9/21 11:30:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.00643		%	0.0033	
CBC-A [†]	< LOQ		%	0.0033	
CBC-Total [†]	0.00643		%	0.0062	
CBD	0.662		%	0.0033	
CBD-A	< LOQ		%	0.0033	
CBD-Total	0.662		%	0.0062	
CBDV [†]	< LOQ		%	0.0033	
CBDV-A [†]	< LOQ		%	0.0033	
CBDV-Total [†]	< LOQ		%	0.0061	
CBE [†]	0.00420		%	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		%	0.0062	
CBN	< LOQ		%	0.0033	
CBT [†]	0.00530		%	0.0033	
Δ8-THCV	< LOQ		%	0.0033	
Δ8-THC [†]	< LOQ		%	0.0033	
Δ9-THC	0.0110		%	0.0033	
THC-A	< LOQ		%	0.0033	
THC-Total	0.0110		%	0.0062	
THCV [†]	< LOQ		%	0.0033	
THCV-A [†]	< LOQ		%	0.0033	
THCV-Total [†]	< LOQ		%	0.0061	
Total Cannabinoids[†]	0.689		%		

Potency per 130g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2111028	Analyze: 12/9/21 11:30:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 130g [†]	8.36		mg/130g	4.28	
CBC-A per 130g [†]	< LOQ		mg/130g	4.28	
CBC-Total per 130g [†]	8.36		mg/130g	8.03	



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Potency per 130g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2111028 Analyze: 12/9/21 11:30:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 130g	861		mg/130g	4.28	
CBD-A per 130g	< LOQ		mg/130g	4.28	
CBD-Total per 130g	861		mg/130g	8.03	
CBDV per 130g [†]	< LOQ		mg/130g	4.28	
CBDV-A per 130g [†]	< LOQ		mg/130g	4.28	
CBDV-Total per 130g [†]	< LOQ		mg/130g	7.99	
CBE per 130g [†]	5.46		mg/130g	4.28	
CBG per 130g [†]	< LOQ		mg/130g	4.28	
CBG-A per 130g [†]	< LOQ		mg/130g	4.28	
CBG-Total per 130g [†]	< LOQ		mg/130g	7.99	
CBL per 130g [†]	< LOQ		mg/130g	4.28	
CBL-A per 130g [†]	< LOQ		mg/130g	4.28	
CBL-Total per 130g [†]	< LOQ		mg/130g	8.03	
CBN per 130g	< LOQ		mg/130g	4.28	
CBT per 130g [†]	6.89		mg/130g	4.28	
Δ8-THCV per 130g [†]	< LOQ		mg/130g	4.28	
Δ8-THC per 130g [†]	< LOQ		mg/130g	4.28	
Δ9-THC per 130g	14.3		mg/130g	4.28	
exo-THC per 130g [†]	< LOQ		mg/130g	4.28	
THC-A per 130g	< LOQ		mg/130g	4.28	
THC-Total per 130g	14.3		mg/130g	8.03	
THCV per 130g [†]	< LOQ		mg/130g	4.28	
THCV-A per 130g [†]	< LOQ		mg/130g	4.28	
THCV-Total per 130g [†]	< LOQ		mg/130g	8.04	
Total Cannabinoids per 130g	896		mg/130g		



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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/130g = Milligram per 130g

% = 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	Sample Type +	Weight (Units)			
	#184, 800 Lotion	12/08				✓								T	130g	Report in mg/gr and % (percentage)		
	#185, 500 Root Butter	12/08				✓								T	25g			
Relinquished By: <u>merritt</u>				Date: <u>12/08</u>	Time: <u>2:15p</u>	Received By: <u>DS</u>				Date: <u>12/8/21</u>	Time: <u>14:25</u>	Lab Use Only:						
												<input type="checkbox"/> Shipped Via: <u>Client drop</u>						
												Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>19.3°C</u>						
												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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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: 2111028							
Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.00979	0.01	%	97.9	85.0 - 115	Acceptable	
CBDV	0.0109	0.01	%	109	85.0 - 115	Acceptable	
CBE	0.00967	0.01	%	96.7	85.0 - 115	Acceptable	
CBDA	0.0104	0.01	%	104	85.0 - 115	Acceptable	
CBGA	0.00971	0.01	%	97.1	85.0 - 115	Acceptable	
CBG	0.00985	0.01	%	98.5	85.0 - 115	Acceptable	
CBD	0.0103	0.01	%	103	85.0 - 115	Acceptable	
THCV	0.00971	0.01	%	97.1	85.0 - 115	Acceptable	
d8THCV	0.0101	0.01	%	101	85.0 - 115	Acceptable	
THCVA	0.00954	0.01	%	95.4	85.0 - 115	Acceptable	
CBN	0.0105	0.01	%	105	85.0 - 115	Acceptable	
exo-THC	0.00929	0.01	%	92.9	85.0 - 115	Acceptable	
d9THC	0.0101	0.01	%	101	85.0 - 115	Acceptable	
d8THC	0.0103	0.01	%	103	85.0 - 115	Acceptable	
CBL	0.00898	0.01	%	89.8	85.0 - 115	Acceptable	
CBC	0.0106	0.01	%	106	85.0 - 115	Acceptable	
THCA	0.00990	0.01	%	99.0	85.0 - 115	Acceptable	
CBCA	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBLA	0.0102	0.01	%	102	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	
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 #: 0.00 Control : CFL-D06
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

JAOAC2015 V98-6				Batch ID: 2111028				
Sample Duplicate				Sample ID: 21-010754-0005				
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.00375	0.00345	0.003	%	8.42	< 20	Acceptable	
CBE	0.00494	0.00441	0.003	%	11.3	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	1.28	1.16	0.003	%	10.4	< 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	
CBC	<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.