



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



Report Number: 21-011767/D002.R000
Report Date: 10/12/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/05/21 16:00

Customer: Healthy Roots
Product identity: #170, Root Butter
Client/Metric ID: .
Laboratory ID: 21-011767-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 25g	485 mg/25g
CBC	0.0209		%			
CBD	1.94		%			
CBDV [†]	0.00880		%		THC-Total per 25g	8.45 mg/25g
CBE [†]	0.00981		%			
CBT [†]	0.0286		%			
Δ9-THC	0.0338		%			(Reported in milligrams per serving)
Analyte per 25g	Result	Limits	Units	Status		
CBC per 25g [†]	5.23		mg/25g			
CBD per 25g	485		mg/25g			
CBDV per 25g [†]	2.20		mg/25g			
CBE per 25g [†]	2.45		mg/25g			
CBT per 25g [†]	7.15		mg/25g			
Δ9-THC per 25g	8.45		mg/25g			



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



Report Number: 21-011767/D002.R000
Report Date: 10/12/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/05/21 16:00

Customer: Healthy Roots
Product identity: #170, Root Butter
Client/Metric ID: .
Sample Date:
Laboratory ID: 21-011767-0001
Evidence of Cooling: No
Temp: 21 °C
Relinquished by: Client
Serving Size #1: 25 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2109015	Analyze: 10/7/21 11:01:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0209		%	0.0033	
CBC-A [†]	< LOQ		%	0.0033	
CBC-Total [†]	0.0209		%	0.0061	
CBD	1.94		%	0.0326	
CBD-A	< LOQ		%	0.0033	
CBD-Total	1.94		%	0.0354	
CBDV [†]	0.00880		%	0.0033	
CBDV-A [†]	< LOQ		%	0.0033	
CBDV-Total [†]	0.00880		%	0.0061	
CBE [†]	0.00981		%	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 [†]	0.0286		%	0.0033	
Δ8-THCV	< LOQ		%	0.0033	
Δ8-THC [†]	< LOQ		%	0.0033	
Δ9-THC	0.0338		%	0.0033	
THC-A	< LOQ		%	0.0033	
THC-Total	0.0338		%	0.0061	
THCV [†]	< LOQ		%	0.0033	
THCV-A [†]	< LOQ		%	0.0033	
THCV-Total [†]	< LOQ		%	0.0061	
Total Cannabinoids[†]	2.04		%		

Potency per 25g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2109015	Analyze: 10/7/21 11:01:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 25g [†]	5.23		mg/25g	0.814	
CBC-A per 25g [†]	< LOQ		mg/25g	0.814	
CBC-Total per 25g [†]	5.23		mg/25g	1.53	



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



Report Number: 21-011767/D002.R000
Report Date: 10/12/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/05/21 16:00

Potency per 25g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2109015 Analyze: 10/7/21 11:01:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 25g	485		mg/25g	8.14	
CBD-A per 25g	< LOQ		mg/25g	0.814	
CBD-Total per 25g	485		mg/25g	8.85	
CBDV per 25g [†]	2.20		mg/25g	0.814	
CBDV-A per 25g [†]	< LOQ		mg/25g	0.814	
CBDV-Total per 25g [†]	2.20		mg/25g	1.52	
CBE per 25g [†]	2.45		mg/25g	0.814	
CBG per 25g [†]	< LOQ		mg/25g	0.814	
CBG-A per 25g [†]	< LOQ		mg/25g	0.814	
CBG-Total per 25g [†]	< LOQ		mg/25g	1.52	
CBL per 25g [†]	< LOQ		mg/25g	0.814	
CBL-A per 25g [†]	< LOQ		mg/25g	0.814	
CBL-Total per 25g [†]	< LOQ		mg/25g	1.53	
CBN per 25g	< LOQ		mg/25g	0.814	
CBT per 25g [†]	7.15		mg/25g	0.814	
Δ8-THCV per 25g [†]	< LOQ		mg/25g	0.814	
Δ8-THC per 25g [†]	< LOQ		mg/25g	0.814	
Δ9-THC per 25g	8.45		mg/25g	0.814	
exo-THC per 25g [†]	< LOQ		mg/25g	0.814	
THC-A per 25g	< LOQ		mg/25g	0.814	
THC-Total per 25g	8.45		mg/25g	1.53	
THCV per 25g [†]	< LOQ		mg/25g	0.814	
THCV-A per 25g [†]	< LOQ		mg/25g	0.814	
THCV-Total per 25g [†]	< LOQ		mg/25g	1.53	
Total Cannabinoids per 25g	510		mg/25g		



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



Report Number: 21-011767/D002.R000
Report Date: 10/12/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/05/21 16:00

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

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/25g = Milligram per 25g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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



Report Number: 21-011767/D002.R000
Report Date: 10/12/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/05/21 16:00

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: 2109015

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.00948	0.01	%	94.8	85.0 - 115	Acceptable	
CBDV	0.0100	0.01	%	100	85.0 - 115	Acceptable	
CBE	0.00987	0.01	%	98.7	85.0 - 115	Acceptable	
CBDA	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBGA	0.00940	0.01	%	94.0	85.0 - 115	Acceptable	
CBG	0.0100	0.01	%	100	85.0 - 115	Acceptable	
CBD	0.0105	0.01	%	105	85.0 - 115	Acceptable	
THCV	0.00970	0.01	%	97.0	85.0 - 115	Acceptable	
d8THCV	0.00986	0.01	%	98.6	85.0 - 115	Acceptable	
THCVA	0.00922	0.01	%	92.2	85.0 - 115	Acceptable	
CBN	0.0103	0.01	%	103	85.0 - 115	Acceptable	
exo-THC	0.00962	0.01	%	96.2	85.0 - 115	Acceptable	
d9THC	0.0101	0.01	%	101	85.0 - 115	Acceptable	
d8THC	0.00969	0.01	%	96.9	85.0 - 115	Acceptable	
CBL	0.00909	0.01	%	90.9	85.0 - 115	Acceptable	
CBC	0.00983	0.01	%	98.3	85.0 - 115	Acceptable	
THCA	0.00977	0.01	%	97.7	85.0 - 115	Acceptable	
CBCA	0.00976	0.01	%	97.6	85.0 - 115	Acceptable	
CBLA	0.0103	0.01	%	103	85.0 - 115	Acceptable	
CBT	0.0108	0.01	%	108	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



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



Report Number: 21-011767/D002.R000
Report Date: 10/12/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/05/21 16:00

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: 2109015						
Sample Duplicate		Sample ID: 21-011654-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0638	0.0634	0.003	%	0.600	< 20	Acceptable	
CBE	0.0926	0.0906	0.003	%	2.15	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.402	0.400	0.003	%	0.566	< 20	Acceptable	
CBD	18.1	18.2	0.003	%	0.540	< 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	0.0298	0.0298	0.003	%	0.230	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.00732	0.00758	0.003	%	3.50	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.154	0.152	0.003	%	0.855	< 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	0.0436	0.0435	0.003	%	0.103	< 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



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



Report Number: 21-011767/D002.R000
Report Date: 10/12/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/05/21 16:00

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.