



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



**Report Number:** 21-014852/D004.R000  
**Report Date:** 12/24/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/20/21 14:47

**Customer:** Healthy Roots  
**Product identity:** #186, 1000 Natural  
**Client/Metric ID:** .  
**Laboratory ID:** 21-014852-0001

## Summary

### Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g	1090 mg/28.5g
CBC	0.0715		%			
CBD	3.82		%			
CBD-A	0.00408		%		THC-Total per 28.5g	16.1 mg/28.5g
CBDV <sup>†</sup>	0.0161		%		(Reported in milligrams per serving)	
CBG <sup>†</sup>	0.0285		%			
CBT <sup>†</sup>	0.0247		%			
Δ9-THC	0.0565		%			
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g <sup>†</sup>	20.4		mg/28.5g			
CBD per 28.5g	1090		mg/28.5g			
CBD-A per 28.5g	1.16		mg/28.5g			
CBDV per 28.5g <sup>†</sup>	4.59		mg/28.5g			
CBG per 28.5g <sup>†</sup>	8.12		mg/28.5g			
CBT per 28.5g <sup>†</sup>	7.04		mg/28.5g			
Δ9-THC per 28.5g	16.1		mg/28.5g			



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**Customer:** Healthy Roots  
**Product identity:** #186, 1000 Natural  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 21-014852-0001  
**Evidence of Cooling:** No  
**Temp:** 17.3 °C  
**Relinquished by:** Client  
**Serving Size #1:** 28.5 g

### Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2111410	Analyze: 12/21/21 8:06:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0715		%	0.0033	
CBC-A†	< LOQ		%	0.0033	
CBC-Total†	0.0715		%	0.0062	
CBD	3.82		%	0.0328	
CBD-A	0.00408		%	0.0033	
CBD-Total	3.82		%	0.0357	
CBDV†	0.0161		%	0.0033	
CBDV-A†	< LOQ		%	0.0033	
CBDV-Total†	0.0161		%	0.0061	
CBE†	< LOQ		%	0.0033	
CBG†	0.0285		%	0.0033	
CBG-A†	< LOQ		%	0.0033	
CBG-Total	0.0285		%	0.0061	
CBL†	< LOQ		%	0.0033	
CBL-A†	< LOQ		%	0.0033	
CBL-Total†	< LOQ		%	0.0062	
CBN	< LOQ		%	0.0033	
CBT†	0.0247		%	0.0033	
Δ8-THCV	< LOQ		%	0.0033	
Δ8-THC†	< LOQ		%	0.0033	
Δ9-THC	0.0565		%	0.0033	
THC-A	< LOQ		%	0.0033	
THC-Total	0.0565		%	0.0062	
THCV†	< LOQ		%	0.0033	
THCV-A†	< LOQ		%	0.0033	
THCV-Total†	< LOQ		%	0.0061	
<b>Total Cannabinoids†</b>	<b>4.02</b>		%		

Potency per 28.5g		Method J AOAC 2015 V98-6 (mod)Units mg/se		Batch: 2111410	Analyze: 12/21/21 8:06:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g†	20.4		mg/28.5g	0.936	
CBC-A per 28.5g†	< LOQ		mg/28.5g	0.936	
CBC-Total per 28.5g†	20.4		mg/28.5g	1.76	



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Potency per 28.5g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2111410 Analyze: 12/21/21 8:06:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 28.5g	1090		mg/28.5g	9.36	
CBD-A per 28.5g	1.16		mg/28.5g	0.936	
CBD-Total per 28.5g	1090		mg/28.5g	10.2	
CBDV per 28.5g <sup>†</sup>	4.59		mg/28.5g	0.936	
CBDV-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.936	
CBDV-Total per 28.5g <sup>†</sup>	4.59		mg/28.5g	1.75	
CBE per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.936	
CBG per 28.5g <sup>†</sup>	8.12		mg/28.5g	0.936	
CBG-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.936	
CBG-Total per 28.5g <sup>†</sup>	8.12		mg/28.5g	1.75	
CBL per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.936	
CBL-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.936	
CBL-Total per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	1.76	
CBN per 28.5g	< LOQ		mg/28.5g	0.936	
CBT per 28.5g <sup>†</sup>	7.04		mg/28.5g	0.936	
Δ8-THCV per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.936	
Δ8-THC per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.936	
Δ9-THC per 28.5g	16.1		mg/28.5g	0.936	
exo-THC per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.936	
THC-A per 28.5g	< LOQ		mg/28.5g	0.936	
THC-Total per 28.5g	16.1		mg/28.5g	1.76	
THCV per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.936	
THCV-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.936	
THCV-Total per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	1.76	
Total Cannabinoids per 28.5g	1150		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 =  $\mu\text{g/g}$  divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager





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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: 2111410

#### Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.00906	0.01	%	90.6	85.0 - 115	Acceptable	
CBDV	0.0105	0.01	%	105	85.0 - 115	Acceptable	
CBE	0.00928	0.01	%	92.8	85.0 - 115	Acceptable	
CBD A	0.00994	0.01	%	99.4	85.0 - 115	Acceptable	
CBGA	0.00950	0.01	%	95.0	85.0 - 115	Acceptable	
CBG	0.00910	0.01	%	91.0	85.0 - 115	Acceptable	
CBD	0.00968	0.01	%	96.8	85.0 - 115	Acceptable	
THCV	0.00920	0.01	%	92.0	85.0 - 115	Acceptable	
d8THCV	0.00943	0.01	%	94.3	85.0 - 115	Acceptable	
THCVA	0.00908	0.01	%	90.8	85.0 - 115	Acceptable	
CBN	0.0101	0.01	%	101	85.0 - 115	Acceptable	
exo-THC	0.00887	0.01	%	88.7	85.0 - 115	Acceptable	
d9THC	0.00959	0.01	%	95.9	85.0 - 115	Acceptable	
d8THC	0.00943	0.01	%	94.3	85.0 - 115	Acceptable	
CBL	0.00879	0.01	%	87.9	85.0 - 115	Acceptable	
CBC	0.00967	0.01	%	96.7	85.0 - 115	Acceptable	
THCA	0.00942	0.01	%	94.2	85.0 - 115	Acceptable	
CBCA	0.00975	0.01	%	97.5	85.0 - 115	Acceptable	
CBLA	0.00948	0.01	%	94.8	85.0 - 115	Acceptable	
CBT	0.0164	0.01	%	164	85.0 - 115	Acceptable	Q6

#### 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	
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  
Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

#### 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: 2111410					
Sample Duplicate			Sample ID: 21-014812-0001					
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	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.00301	0.00305	0.003	%	1.21	< 20	Acceptable	
CBD	0.231	0.230	0.003	%	0.128	< 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	0.00305	0.00304	0.003	%	0.487	< 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.