



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



**Report Number:** 20-005257/D01.R00  
**Report Date:** 05/28/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/21/20 13:06

**Customer:** Healthy Roots  
**Product identity:** 1000 Mint #82  
**Client/Metric ID:** .  
**Laboratory ID:** 20-005257-0001

## Summary

### Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g	998 mg/28.5g
CBC	0.198		%			
CBC-A†	0.0327		%			
CBD	3.18		%		THC-Total per 28.5g	12.4 mg/28.5g
CBD-A	0.367		%			
CBDV†	0.0403		%			
CBDV-A†	0.0117		%			
CBG†	0.0227		%			
CBG-A†	0.00902		%			
Δ9-THC	0.0435		%			
						(Reported in milligrams per serving)
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g	56.4		mg/28.5g			
CBC-A per 28.5g	9.32		mg/28.5g			
CBD per 28.5g	906		mg/28.5g			
CBD-A per 28.5g	105		mg/28.5g			
CBDV per 28.5g	11.5		mg/28.5g			
CBDV-A per 28.5g	3.33		mg/28.5g			
CBG per 28.5g	6.47		mg/28.5g			
CBG-A per 28.5g	2.57		mg/28.5g			
Δ9-THC per 28.5g	12.4		mg/28.5g			



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**Customer:** Healthy Roots  
  
**Product identity:** 1000 Mint #82  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 20-005257-0001  
**Relinquished by:** Client \*See COC\*  
**Temp:** 14.4 °C

## Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)		Batch: 2004379	Analyze: 1/1/70 12:00:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.198		%	0.0032	
CBC-A <sup>†</sup>	0.0327		%	0.0032	
CBC-Total <sup>†</sup>	0.227		%	0.0060	
CBD	3.18		%	0.0318	
CBD-A	0.367		%	0.0032	
CBD-Total	3.50		%	0.0346	
CBDV <sup>†</sup>	0.0403		%	0.0032	
CBDV-A <sup>†</sup>	0.0117		%	0.0032	
CBDV-Total <sup>†</sup>	0.0504		%	0.0059	
CBG <sup>†</sup>	0.0227		%	0.0032	
CBG-A <sup>†</sup>	0.00902		%	0.0032	
CBG-Total	0.0306		%	0.0059	
CBL <sup>†</sup>	< LOQ		%	0.0032	
CBN	< LOQ		%	0.0032	
Δ8-THC <sup>†</sup>	< LOQ		%	0.0032	
Δ9-THC	0.0435		%	0.0032	
THC-A	< LOQ		%	0.0032	
THC-Total	0.0435		%	0.0060	
THCV <sup>†</sup>	< LOQ		%	0.0032	
THCV-A <sup>†</sup>	< LOQ		%	0.0032	
THCV-Total <sup>†</sup>	< LOQ		%	0.0059	
<b>Total Cannabinoids<sup>†</sup></b>	<b>3.90</b>		%		

Potency per 28.5g	Method J AOAC 2015 V98-6 (mod)		Batch: 2004379	Analyze: 1/1/70 12:00:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g	56.4		mg/28.5g	0.906	
CBC-A per 28.5g	9.32		mg/28.5g	0.906	
CBC-Total per 28.5g	64.6		mg/28.5g	1.70	
CBD per 28.5g	906		mg/28.5g	9.06	
CBD-A per 28.5g	105		mg/28.5g	0.906	
CBD-Total per 28.5g	998		mg/28.5g	9.86	
CBDV per 28.5g	11.5		mg/28.5g	0.906	
CBDV-A per 28.5g	3.33		mg/28.5g	0.906	
CBDV-Total per 28.5g	14.4		mg/28.5g	1.69	

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Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0430



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Potency per 28.5g					
Method J AOAC 2015 V98-6 (mod) Batch: 2004379 Analyze: 1/1/70 12:00:00 AM					
Analyte	Result	Limits	Units	LOQ	Notes
CBG per 28.5g	6.47		mg/28.5g	0.906	
CBG-A per 28.5g	2.57		mg/28.5g	0.906	
CBG-Total per 28.5g	8.70		mg/28.5g	1.69	
CBL per 28.5g	< LOQ		mg/28.5g	0.906	
CBN per 28.5g	< LOQ		mg/28.5g	0.906	
$\Delta$ 8-THC per 28.5g	< LOQ		mg/28.5g	0.906	
$\Delta$ 9-THC per 28.5g	12.4		mg/28.5g	0.906	
THC-A per 28.5g	< LOQ		mg/28.5g	0.906	
THC-Total per 28.5g	12.4		mg/28.5g	1.70	
THCV per 28.5g	< LOQ		mg/28.5g	0.906	
THCV-A per 28.5g	< LOQ		mg/28.5g	0.906	
THCV-Total per 28.5g	< LOQ		mg/28.5g	1.70	
<b>Total Cannabinoids 28.5g<sup>†</sup></b>	<b>1110</b>		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

**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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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: 2004379									
Laboratory Control Sample									
Analyte	Result		Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	0.00937		0.01	%	93.7	85.0 - 115		Acceptable	
CBDV	0.00967		0.01	%	96.7	85.0 - 115		Acceptable	
CBD-A	0.00918		0.01	%	91.8	85.0 - 115		Acceptable	
CBG-A	0.00940		0.01	%	94.0	85.0 - 115		Acceptable	
CBG	0.00953		0.01	%	95.3	85.0 - 115		Acceptable	
CBD	0.00855		0.01	%	85.5	85.0 - 115		Acceptable	
THCV	0.00905		0.01	%	90.5	85.0 - 115		Acceptable	
THCVA	0.00910		0.01	%	91.0	85.0 - 115		Acceptable	
CBN	0.00941		0.01	%	94.1	85.0 - 115		Acceptable	
THC	0.00922		0.01	%	92.2	85.0 - 115		Acceptable	
D8THC	0.00946		0.01	%	94.6	85.0 - 115		Acceptable	
CBL	0.00953		0.01	%	95.3	85.0 - 115		Acceptable	
CBG	0.00994		0.01	%	99.4	85.0 - 115		Acceptable	
THCA	0.00893		0.01	%	89.3	85.0 - 115		Acceptable	
CBDA	0.00964		0.01	%	96.4	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	
CBD-A	<LOQ		0.003	%		< 0.003		Acceptable	
CBG-A	<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	
THCVA	<LOQ		0.003	%		< 0.003		Acceptable	
CBN	<LOQ		0.003	%		< 0.003		Acceptable	
THC	<LOQ		0.003	%		< 0.003		Acceptable	
D8THC	<LOQ		0.003	%		< 0.003		Acceptable	
CBL	<LOQ		0.003	%		< 0.003		Acceptable	
CBG	<LOQ		0.003	%		< 0.003		Acceptable	
THCA	<LOQ		0.003	%		< 0.003		Acceptable	
CBDA	<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 V986					Batch ID: 2004379			
Sample Duplicate					Sample ID: 20-005203-0001			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.00638	0.00658	0.003	%	3.16	< 20	Acceptable	
CBD	0.0150	0.0154	0.003	%	2.74	< 20	Acceptable	
THCV	0.00337	0.00351	0.003	%	3.94	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.0117	0.0121	0.003	%	2.99	< 20	Acceptable	
THC	0.332	0.342	0.003	%	2.91	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.00526	0.00543	0.003	%	3.12	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<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.