



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



**Report Number:** 23-014773/D002.R000  
**Report Date:** 12/21/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/18/23 12:26

**Customer:** Healthy Roots  
**Product identity:** 1000 MG Mint Tincture  
**Client/Metric ID:** .  
**Laboratory ID:** 23-014773-0001

## Summary

### Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per Serving Size 1090 mg/28.5g
CBC	0.0739		%		
CBD	3.75		%		
CBD-A	0.0654		%		THC-Total per Serving Size 31.9 mg/28.5g
CBDV	0.0218		%		
CBE	0.0152		%		(Reported in milligrams per serving)
CBG	0.0505		%		
CBT	0.0157		%		
Δ9-THC	0.112		%		
Analyte per 28.5g	Result	Limits	Units	Status	
CBC per 28.5g	21.1		mg/28.5g		
CBD per 28.5g	1070		mg/28.5g		
CBD-A per 28.5g	18.6		mg/28.5g		
CBDV per 28.5g	6.21		mg/28.5g		
CBE per 28.5g	4.33		mg/28.5g		
CBG per 28.5g	14.4		mg/28.5g		
CBT per 28.5g	4.47		mg/28.5g		
Δ9-THC per 28.5g	31.9		mg/28.5g		



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**Customer:** Healthy Roots  
**Product identity:** 1000 MG Mint Tincture  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 23-014773-0001  
**Evidence of Cooling:** No  
**Temp:** 18.7  
**Relinquished by:** client  
**Serving Size #1:** 28.5 g

### Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>			Units %	Batch: 2313758	Analyze: 12/20/23 12:33:00 A
Analyte	Result	Limits	Units	LOQ	Notes	
CBC	0.0739		%	0.00313		
CBC-A	< LOQ		%	0.00313		
CBC-Total	0.0739		%	0.00588		
CBD	3.75		%	0.0313		
CBD-A	0.0654		%	0.00313		
CBD-Total	3.81		%	0.0341		
CBDV	0.0218		%	0.00313		
CBDV-A	< LOQ		%	0.00313		
CBDV-Total	0.0218		%	0.00585		
CBE	0.0152		%	0.00313		
CBG	0.0505		%	0.00313		
CBG-A	< LOQ		%	0.00313		
CBG-Total	0.0505		%	0.00585		
CBL	< LOQ		%	0.00313		
CBL-A	< LOQ		%	0.00313		
CBL-Total	< LOQ		%	0.00588		
CBN	< LOQ		%	0.00313		
CBT	0.0157		%	0.00313		
Δ8-THCV	< LOQ		%	0.00313		
Δ10-THC-9R	< LOQ		%	0.00313		
Δ10-THC-9S	< LOQ		%	0.00313		
Δ10-THC-Total	< LOQ		%	0.00627		
Δ8-THC	< LOQ		%	0.00313		
Δ9-THC	0.112		%	0.00313		
delta-9-THCP	< LOQ		%	0.00313		
THC-A	< LOQ		%	0.00313		
THC-Total	0.112		%	0.00588		
THCV	< LOQ		%	0.00313		
THCV-A	< LOQ		%	0.00313		
THCV-Total	< LOQ		%	0.00585		
<b>Total Cannabinoids</b>	<b>4.10</b>		%			



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Potency per 28.5g      **Method:** J AOAC 2015 V98-6 (mod)<sup>b</sup>      **Units** mg/se      **Batch:** 2313758      **Analyze:** 12/20/23 12:33:00 A

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g	21.1		mg/28.5g	0.893	
CBC-A per 28.5g	< LOQ		mg/28.5g	0.893	
CBC-Total per 28.5g	21.1		mg/28.5g	1.68	
CBD per 28.5g	1070		mg/28.5g	8.93	
CBD-A per 28.5g	18.6		mg/28.5g	0.893	
CBD-Total per 28.5g	1090		mg/28.5g	9.72	
CBDV per 28.5g	6.21		mg/28.5g	0.893	
CBDV-A per 28.5g	< LOQ		mg/28.5g	0.893	
CBDV-Total per 28.5g	6.21		mg/28.5g	1.67	
CBE per 28.5g	4.33		mg/28.5g	0.893	
CBG per 28.5g	14.4		mg/28.5g	0.893	
CBG-A per 28.5g	< LOQ		mg/28.5g	0.893	
CBG-Total per 28.5g	14.4		mg/28.5g	1.67	
CBL per 28.5g	< LOQ		mg/28.5g	0.893	
CBL-A per 28.5g	< LOQ		mg/28.5g	0.893	
CBL-Total per 28.5g	< LOQ		mg/28.5g	1.68	
CBN per 28.5g	< LOQ		mg/28.5g	0.893	
CBT per 28.5g	4.47		mg/28.5g	0.893	
Δ8-THCV per 28.5g	< LOQ		mg/28.5g	0.893	
Δ10-THC-9R per 28.5g	< LOQ		mg/28.5g	0.893	
Δ10-THC-9S per 28.5g	< LOQ		mg/28.5g	0.893	
Δ10-THC-Total per 28.5g	< LOQ		mg/28.5g	1.79	
Δ8-THC per 28.5g	< LOQ		mg/28.5g	0.893	
Δ9-THC per 28.5g	31.9		mg/28.5g	0.893	
delta-9-THCP per 28.5g	< LOQ		mg/28.5g	0.893	
THC-A per 28.5g	< LOQ		mg/28.5g	0.893	
THC-Total per 28.5g	31.9		mg/28.5g	1.68	
THCV per 28.5g	< LOQ		mg/28.5g	0.893	
THCV-A per 28.5g	< LOQ		mg/28.5g	0.893	
THCV-Total per 28.5g	< LOQ		mg/28.5g	1.68	
Total Cannabinoids per 28.5g	1170		mg/28.5g		



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#### **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.

<sup>h</sup> = ISO/IEC 17025:2017 accredited method.

#### **Units of Measure**

g = g

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: 4 Document ID: 7148  
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2313758

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	2	0.0307	0.0322	%	95.2	80.0 - 120	Acceptable		
CBDV	2	0.0339	0.0349	%	97.0	80.0 - 120	Acceptable		
CBE	2	0.0340	0.0356	%	95.7	80.0 - 120	Acceptable		
CBDA	1	0.0328	0.0317	%	103	90.0 - 110	Acceptable		
CBGA	1	0.0323	0.0315	%	102	80.0 - 120	Acceptable		
CBG	1	0.0290	0.0309	%	94.0	80.0 - 120	Acceptable		
CBD	1	0.0328	0.0330	%	99.2	90.0 - 110	Acceptable		
THCV	2	0.0332	0.0342	%	97.1	80.0 - 120	Acceptable		
d8THCV	2	0.0276	0.0280	%	98.8	80.0 - 120	Acceptable		
THCVA	2	0.0309	0.0323	%	95.5	80.0 - 120	Acceptable		
CBN	1	0.0337	0.0330	%	102	80.0 - 120	Acceptable		
exo-THC	2	0.0306	0.0315	%	97.2	80.0 - 120	Acceptable		
d9THC	1	0.0338	0.0337	%	100	90.0 - 110	Acceptable		
d8THC	1	0.0332	0.0336	%	98.7	90.0 - 110	Acceptable		
9S-d10THC	1	0.0320	0.0326	%	98.2	80.0 - 120	Acceptable		
CBL	2	0.0310	0.0325	%	95.4	80.0 - 120	Acceptable		
9R-d10THC	1	0.0322	0.0318	%	101	80.0 - 120	Acceptable		
CBC	2	0.0336	0.0354	%	94.9	80.0 - 120	Acceptable		
THCA	1	0.0312	0.0322	%	97.0	90.0 - 110	Acceptable		
CBCA	2	0.0309	0.0344	%	90.1	80.0 - 120	Acceptable		
CBLA	2	0.0317	0.0341	%	92.8	80.0 - 120	Acceptable		
d9THCP	2	0.0368	0.0332	%	111	80.0 - 120	Acceptable		
CBT	2	0.0334	0.0350	%	95.6	80.0 - 120	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00332	%	< 0.00332	Acceptable	
CBDV	<LOQ	0.00332	%	< 0.00332	Acceptable	
CBE	<LOQ	0.00332	%	< 0.00332	Acceptable	
CBDA	<LOQ	0.00332	%	< 0.00332	Acceptable	
CBGA	<LOQ	0.00332	%	< 0.00332	Acceptable	
CBG	<LOQ	0.00332	%	< 0.00332	Acceptable	
CBD	<LOQ	0.00332	%	< 0.00332	Acceptable	
THCV	<LOQ	0.00332	%	< 0.00332	Acceptable	
d8THCV	<LOQ	0.00332	%	< 0.00332	Acceptable	
THCVA	<LOQ	0.00332	%	< 0.00332	Acceptable	
CBN	<LOQ	0.00332	%	< 0.00332	Acceptable	
exo-THC	<LOQ	0.00332	%	< 0.00332	Acceptable	
d9THC	<LOQ	0.00332	%	< 0.00332	Acceptable	
d8THC	<LOQ	0.00332	%	< 0.00332	Acceptable	
9S-d10THC	<LOQ	0.00332	%	< 0.00332	Acceptable	
CBL	<LOQ	0.00332	%	< 0.00332	Acceptable	
9R-d10THC	<LOQ	0.00332	%	< 0.00332	Acceptable	
CBC	<LOQ	0.00332	%	< 0.00332	Acceptable	
THCA	<LOQ	0.00332	%	< 0.00332	Acceptable	
CBCA	<LOQ	0.00332	%	< 0.00332	Acceptable	
CBLA	<LOQ	0.00332	%	< 0.00332	Acceptable	
d9THCP	<LOQ	0.00332	%	< 0.00332	Acceptable	
CBT	<LOQ	0.00332	%	< 0.00332	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: 4 Document ID: 7148  
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2313758						
Sample Duplicate		Sample ID: 23-014688-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBE	0.383	0.391	0.00327	%	1.99	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
d8THCV	0.180	0.182	0.00327	%	1.24	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
d8THC	25.8	26.4	0.00327	%	2.34	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBT	0.0622	0.0650	0.00327	%	4.40	< 20	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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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.