



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



Report Number: 23-014355/D002.R000
Report Date: 12/13/2023
ORELAP#: OR100028
Purchase Order:
Received: 12/07/23 13:41

Customer: Healthy Roots
Product identity: 1,000 BerryTincture
Client/Metric ID: .
Laboratory ID: 23-014355-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per Serving Size 1020 mg/28.5g
CBC	0.0736		%		
CBD	3.53		%		
CBD-A	0.0624		%		THC-Total per Serving Size 31.1 mg/28.5g
CBDV	0.0204		%		
CBG	0.0490		%		(Reported in milligrams per serving)
CBT	0.0201		%		
Δ8-THC	0.00615		%		
Δ9-THC	0.109		%		
Analyte per 28.5g	Result	Limits	Units	Status	
CBC per 28.5g	21.0		mg/28.5g		
CBD per 28.5g	1010		mg/28.5g		
CBD-A per 28.5g	17.8		mg/28.5g		
CBDV per 28.5g	5.81		mg/28.5g		
CBG per 28.5g	14.0		mg/28.5g		
CBT per 28.5g	5.73		mg/28.5g		
Δ8-THC per 28.5g	1.75		mg/28.5g		
Δ9-THC per 28.5g	31.1		mg/28.5g		



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Customer: Healthy Roots
Product identity: 1,000 BerryTincture
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-014355-0001
Evidence of Cooling: No
Temp: 20.4 °C
Relinquished by: client
Serving Size #1: 28.5 g

Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) ^b		Units %	Batch: 2313464	Analyze: 12/8/23 7:59:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0736		%	0.00330	
CBC-A	< LOQ		%	0.00330	
CBC-Total	0.0736		%	0.00620	
CBD	3.53		%	0.0330	
CBD-A	0.0624		%	0.00330	
CBD-Total	3.58		%	0.0359	
CBDV	0.0204		%	0.00330	
CBDV-A	< LOQ		%	0.00330	
CBDV-Total	0.0204		%	0.00617	
CBE	< LOQ		%	0.00330	
CBG	0.0490		%	0.00330	
CBG-A	< LOQ		%	0.00330	
CBG-Total	0.0490		%	0.00617	
CBL	< LOQ		%	0.00330	
CBL-A	< LOQ		%	0.00330	
CBL-Total	< LOQ		%	0.00620	
CBN	< LOQ		%	0.00330	
CBT	0.0201		%	0.00330	
Δ8-THCV	< LOQ		%	0.00330	
Δ10-THC-9R	< LOQ		%	0.00330	
Δ10-THC-9S	< LOQ		%	0.00330	
Δ10-THC-Total	< LOQ		%	0.00661	
Δ8-THC	0.00615		%	0.00330	
Δ9-THC	0.109		%	0.00330	
delta-9-THCP	< LOQ		%	0.00330	
exo-THC	< LOQ		%	0.00330	
THC-A	< LOQ		%	0.00330	
THC-Total	0.109		%	0.00620	
THCV	< LOQ		%	0.00330	
THCV-A	< LOQ		%	0.00330	
THCV-Total	< LOQ		%	0.00617	
Total Cannabinoids	3.87		%		



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Potency per 28.5g **Method:** J AOAC 2015 V98-6 (mod)^b **Units** mg/se **Batch:** 2313464 **Analyze:** 12/8/23 7:59:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g	21.0		mg/28.5g	0.941	
CBC-A per 28.5g	< LOQ		mg/28.5g	0.941	
CBC-Total per 28.5g	21.0		mg/28.5g	1.77	
CBD per 28.5g	1010		mg/28.5g	9.41	
CBD-A per 28.5g	17.8		mg/28.5g	0.941	
CBD-Total per 28.5g	1020		mg/28.5g	10.2	
CBDV per 28.5g	5.81		mg/28.5g	0.941	
CBDV-A per 28.5g	< LOQ		mg/28.5g	0.941	
CBDV-Total per 28.5g	5.81		mg/28.5g	1.76	
CBE per 28.5g	< LOQ		mg/28.5g	0.941	
CBG per 28.5g	14.0		mg/28.5g	0.941	
CBG-A per 28.5g	< LOQ		mg/28.5g	0.941	
CBG-Total per 28.5g	14.0		mg/28.5g	1.76	
CBL per 28.5g	< LOQ		mg/28.5g	0.941	
CBL-A per 28.5g	< LOQ		mg/28.5g	0.941	
CBL-Total per 28.5g	< LOQ		mg/28.5g	1.77	
CBN per 28.5g	< LOQ		mg/28.5g	0.941	
CBT per 28.5g	5.73		mg/28.5g	0.941	
Δ8-THCV per 28.5g	< LOQ		mg/28.5g	0.941	
Δ10-THC-9R per 28.5g	< LOQ		mg/28.5g	0.941	
Δ10-THC-9S per 28.5g	< LOQ		mg/28.5g	0.941	
Δ10-THC-Total per 28.5g	< LOQ		mg/28.5g	1.88	
Δ8-THC per 28.5g	1.75		mg/28.5g	0.941	
Δ9-THC per 28.5g	31.1		mg/28.5g	0.941	
delta-9-THCP per 28.5g	< LOQ		mg/28.5g	0.941	
exo-THC per 28.5g	< LOQ		mg/28.5g	0.941	
THC-A per 28.5g	< LOQ		mg/28.5g	0.941	
THC-Total per 28.5g	31.1		mg/28.5g	1.77	
THCV per 28.5g	< LOQ		mg/28.5g	0.941	
THCV-A per 28.5g	< LOQ		mg/28.5g	0.941	
THCV-Total per 28.5g	< LOQ		mg/28.5g	1.77	
Total Cannabinoids per 28.5g	1100		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.

^h = 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: 2313464

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	2	0.0317	0.0322	%	98.3	80.0 - 120	Acceptable		
CBDV	2	0.0348	0.0349	%	99.8	80.0 - 120	Acceptable		
CBE	2	0.0349	0.0356	%	98.2	80.0 - 120	Acceptable		
CBDA	1	0.0310	0.0317	%	98.0	90.0 - 110	Acceptable		
CBGA	1	0.0311	0.0315	%	98.7	80.0 - 120	Acceptable		
CBG	1	0.0301	0.0309	%	97.7	80.0 - 120	Acceptable		
CBD	1	0.0322	0.0330	%	97.6	90.0 - 110	Acceptable		
THCV	2	0.0338	0.0342	%	98.9	80.0 - 120	Acceptable		
d8THCV	2	0.0278	0.0280	%	99.6	80.0 - 120	Acceptable		
THCVA	2	0.0317	0.0323	%	98.1	80.0 - 120	Acceptable		
CBN	1	0.0328	0.0330	%	99.4	80.0 - 120	Acceptable		
exo-THC	2	0.0313	0.0315	%	99.3	80.0 - 120	Acceptable		
d9THC	1	0.0332	0.0337	%	98.4	90.0 - 110	Acceptable		
d8THC	1	0.0338	0.0336	%	100	90.0 - 110	Acceptable		
9S-d10THC	1	0.0323	0.0326	%	99.3	80.0 - 120	Acceptable		
CBL	2	0.0317	0.0325	%	97.5	80.0 - 120	Acceptable		
9R-d10THC	1	0.0313	0.0318	%	98.5	80.0 - 120	Acceptable		
CBC	2	0.0349	0.0354	%	98.6	80.0 - 120	Acceptable		
THCA	1	0.0317	0.0322	%	98.3	90.0 - 110	Acceptable		
CBCA	2	0.0340	0.0344	%	98.8	80.0 - 120	Acceptable		
CBLA	2	0.0334	0.0341	%	97.8	80.0 - 120	Acceptable		
d9THCP	2	0.0329	0.0332	%	99.3	80.0 - 120	Acceptable		
CBT	2	0.0344	0.0350	%	98.3	80.0 - 120	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBDV	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBE	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBDA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBGA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBG	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBD	<LOQ	0.00318	%	< 0.00318	Acceptable	
THCV	<LOQ	0.00318	%	< 0.00318	Acceptable	
d8THCV	<LOQ	0.00318	%	< 0.00318	Acceptable	
THCVA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBN	<LOQ	0.00318	%	< 0.00318	Acceptable	
exo-THC	<LOQ	0.00318	%	< 0.00318	Acceptable	
d9THC	<LOQ	0.00318	%	< 0.00318	Acceptable	
d8THC	<LOQ	0.00318	%	< 0.00318	Acceptable	
9S-d10THC	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBL	<LOQ	0.00318	%	< 0.00318	Acceptable	
9R-d10THC	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBC	<LOQ	0.00318	%	< 0.00318	Acceptable	
THCA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBCA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBLA	<LOQ	0.00318	%	< 0.00318	Acceptable	
d9THCP	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBT	<LOQ	0.00318	%	< 0.00318	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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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2313464						
Sample Duplicate		Sample ID: 23-014318-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBDA	0.150	0.149	0.00314	%	0.145	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBD	0.239	0.240	0.00314	%	0.514	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
d9THC	0.00659	0.00719	0.00314	%	8.59	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBC	0.0125	0.0125	0.00314	%	0.755	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBCA	0.00578	0.00580	0.00314	%	0.358	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBT	0.00485	0.00492	0.00314	%	1.36	< 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.