



This report cannot be used for ODA, OHA or OLCC compliance requirements.

Product identity: 250 Berry Tincture
Laboratory ID: 19-005359-0001

Client/Metric ID: .
Sample Date:

Summary

Potency:

Analyte	Result	Limits	Units	LOQ	
CBC [†]	0.104		%	0.0033	CBD-Total per 12.5g 214 mg/12.5g
CBD	1.71		%	0.0330	
CBDV [†]	0.0139		%	0.0033	THC-Total per 12.5g 8.28 mg/12.5g
CBG [†]	0.0125		%	0.0033	(Reported in milligrams per serving)
CBN	0.00350		%	0.0033	
Δ9-THC	0.0662		%	0.0033	
THCV [†]	0.00443		%	0.0033	
Analyte per 12.5g	Result	Limits	Units	LOQ	
CBC per 12.5g [†]	13.0		mg/12.5g	0.417	
CBD per 12.5g	214		mg/12.5g	0.417	
CBDV per 12.5g [†]	1.74		mg/12.5g	0.417	
CBG per 12.5g [†]	1.56		mg/12.5g	0.417	
CBN per 12.5g	0.438		mg/12.5g	0.417	
Δ9-THC per 12.5g	8.28		mg/12.5g	0.417	
THCV per 12.5g [†]	0.554		mg/12.5g	0.417	



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Customer: Healthy Roots

Product identity: 250 Berry Tincture

Client/Metric ID: .

Sample Date:

Laboratory ID: 19-005359-0001

Relinquished by: Healthy Roots

Temp: 26.8 °C

Weight Received:

Serving Size #1: 12.5 g

Sample Results

Potency		Batch: 1904441					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC†	0.104		%	0.0033	05/17/19	J AOAC 2015 V98-6	
CBC-A†	< LOQ		%	0.0033	05/17/19	J AOAC 2015 V98-6	
CBC-Total†	0.104		%	0.0063	05/20/19	J AOAC 2015 V98-6	
CBD	1.71		%	0.0330	05/17/19	J AOAC 2015 V98-6	
CBD-A	< LOQ		%	0.0033	05/17/19	J AOAC 2015 V98-6	
CBD-Total	1.71		%	0.0063	05/20/19	J AOAC 2015 V98-6	
CBDV†	0.0139		%	0.0033	05/17/19	J AOAC 2015 V98-6	
CBDV-A†	< LOQ		%	0.0033	05/17/19	J AOAC 2015 V98-6	
CBDV-Total†	0.0139		%	0.0062	05/20/19	J AOAC 2015 V98-6	
CBG†	0.0125		%	0.0033	05/17/19	J AOAC 2015 V98-6	
CBG-A†	< LOQ		%	0.0033	05/17/19	J AOAC 2015 V98-6	
CBG-Total†	0.0125		%	0.0063	05/20/19	J AOAC 2015 V98-6	
CBL†	< LOQ		%	0.0033	05/17/19	J AOAC 2015 V98-6	
CBN	0.00350		%	0.0033	05/17/19	J AOAC 2015 V98-6	
Δ8-THC†	< LOQ		%	0.0033	05/17/19	J AOAC 2015 V98-6	
Δ9-THC	0.0662		%	0.0033	05/17/19	J AOAC 2015 V98-6	
THC-A	< LOQ		%	0.0033	05/17/19	J AOAC 2015 V98-6	
THC-Total	0.0662		%	0.0063	05/20/19	J AOAC 2015 V98-6	
THCV†	0.00443		%	0.0033	05/17/19	J AOAC 2015 V98-6	
THCV-A†	< LOQ		%	0.0033	05/17/19	J AOAC 2015 V98-6	
THCV-Total†	< LOQ		%	0.0062	05/20/19	J AOAC 2015 V98-6	

Potency per 12.5g		Batch: 1904441					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 12.5g†	13.0		mg/12.5g	0.417	05/20/19	J AOAC 2015 V98-6	
CBC-A per 12.5g†	< LOQ		mg/12.5g	0.417	05/20/19	J AOAC 2015 V98-6	
CBC-Total per 12.5g†	13.0		mg/12.5g	0.782	05/20/19	J AOAC 2015 V98-6	
CBD per 12.5g	214		mg/12.5g	0.417	05/20/19	J AOAC 2015 V98-6	



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Potency per 12.5g		Batch: 1904441					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBD-A per 12.5g	< LOQ		mg/12.5g	0.417	05/20/19	J AOAC 2015 V98-6	
CBD-Total per 12.5g	214		mg/12.5g	0.782	05/20/19	J AOAC 2015 V98-6	
CBDV per 12.5g†	1.74		mg/12.5g	0.417	05/20/19	J AOAC 2015 V98-6	
CBDV-A per 12.5g†	< LOQ		mg/12.5g	0.417	05/20/19	J AOAC 2015 V98-6	
CBDV-Total per 12.5g†	1.74		mg/12.5g	0.778	05/20/19	J AOAC 2015 V98-6	
CBG per 12.5g†	1.56		mg/12.5g	0.417	05/20/19	J AOAC 2015 V98-6	
CBG-A per 12.5g†	< LOQ		mg/12.5g	0.417	05/20/19	J AOAC 2015 V98-6	
CBG-Total per 12.5g†	1.56		mg/12.5g	0.782	05/20/19	J AOAC 2015 V98-6	
CBL per 12.5g†	< LOQ		mg/12.5g	0.417	05/20/19	J AOAC 2015 V98-6	
CBN per 12.5g	0.438		mg/12.5g	0.417	05/20/19	J AOAC 2015 V98-6	
Δ8-THC per 12.5g†	< LOQ		mg/12.5g	0.417	05/20/19	J AOAC 2015 V98-6	
Δ9-THC per 12.5g	8.28		mg/12.5g	0.417	05/20/19	J AOAC 2015 V98-6	
THC-A per 12.5g	< LOQ		mg/12.5g	0.417	05/20/19	J AOAC 2015 V98-6	
THC-Total per 12.5g	8.28		mg/12.5g	0.782	05/20/19	J AOAC 2015 V98-6	
THCV per 12.5g†	0.554		mg/12.5g	0.417	05/20/19	J AOAC 2015 V98-6	
THCV-A per 12.5g†	< LOQ		mg/12.5g	0.417	05/20/19	J AOAC 2015 V98-6	
THCV-Total per 12.5g†	< LOQ		mg/12.5g	0.778	05/20/19	J AOAC 2015 V98-6	



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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/12.5g = Milligram per 12.5g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



This report cannot be used for ODA, OHA or OLCC compliance requirements.

12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

HEALTHYROOTS 19-005359

Healthy Roots

PIXIS Labs
tentamus

Order Number:
Number:
Name:

Report Instructions:
 Send to State - METRC
 Email Final Results:
 Fax Final Results
 Cash/Check/CC/Net 30
Other:

Analysis Requested

Pesticides	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Microbiology	Metals
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Company: HEALTHY ROOTS
 Contact: Liz Merritt
 Address: 1435 NE AIRPORT WAY #113 PORTLAND, OR 97232
 Email: HEALTHYROOTS@TENTAMUS.COM
 Phone: 503-496-2529 Fax: N/A
 Processor's License: AG-L1052211FP

Field ID	Date/Time Collected	Pesticides	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Microbiology	Metals	Matrix	Weight	Serving size for edibles	Comments/Metric ID	Cont #'s
<u>250 Berry tincture</u>	<u>5/13/19</u>		<u>✓</u>									<u>12.5 gr</u>		
<u>500 Berry tincture</u>	<u>5/13/19</u>		<u>✓</u>									<u>28.5 gr</u>		
<u>1000 Berry tincture</u>	<u>5/13/19</u>		<u>✓</u>									<u>28.5 gr</u>		
<u>Nirvana SOAP</u>	<u>5/13/19</u>		<u>✓</u>									<u>133 gr</u>		
<u>Bergamot/Black Tea SOAP</u>	<u>5/13/19</u>		<u>✓</u>									<u>131 gr</u>		
<u>Citrus hibiscus/BB</u>	<u>5/13/19</u>		<u>✓</u>									<u>213.6 gr</u>		
<u>Rosemary/mint BB</u>	<u>5/13/19</u>		<u>✓</u>									<u>212.2 gr</u>		

Collected By: _____

Standard 5 day
 Rush (1.5 x Standard)
 Priority Rush (2 x Standard)

Ask About Availability

Relinquished By: [Signature] 5/13/19 12:46

Received By: [Signature] 5-13-19 12:46

Labs Use Only:

Client Alias: _____

Order Number: _____

Proper Container
 Sample Condition
 Temperature 26.8
 Shipped Via: 26.8

Evidence of cooling: Yes No

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

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BM 5/13/19



This report cannot be used for ODA, OHA or OLCC compliance requirements.

12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

Company: <u>HEALTHY ROOTS</u>		Analysis Requested							Purchase Order Number:					
Contact: <u>112 mercy</u>		Pesticides	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Microbiology	Metals	Project Number:				
Address: <u>115 Ave Antecapit 97230</u>										Project Name:				
Email: <u>HEALTHY ROOTS@hamprod.com</u>										<input type="checkbox"/> Report Instructions:				
Phone: <u>503-496-2329</u> Fax: <u>N/A</u>										<input type="checkbox"/> Send to State - METRC				
Processor's License: <u>AG-L1052211FP</u>										<input type="checkbox"/> Email Final Results:				
		<input type="checkbox"/> Fax Final Results												
		<input type="checkbox"/> Cash/Check/CC/Net 30												
		Other:												
Field ID	Date/Time Collected									Matrix	Weight	Serving size for edibles	Comments/Metric ID	Cont #'s
<u>Rootbutter Sample</u>	<u>5/13/19</u>		<u>8</u>									<u>4 gr</u>		
<u>Rootbutter/muscia PB</u>	<u>5/13/19</u>		<u>8</u>									<u>23 gr</u>		
<u>2mg Pumpkin Dog treat</u>	<u>5/13/19</u>		<u>8</u>									<u>35 gr</u>		
<u>5mg PB Bacon Dog treat</u>	<u>5/13/19</u>		<u>8</u>									<u>78 gr</u>		
<u>5mg Pumpkin/PB</u>	<u>5/13/19</u>		<u>8</u>									<u>89.5 gr</u>		
<u>JJ 5/13/19</u>														
Collected By:	Relinquished By:	Date	Time	Received By:	Date	Time	Labs Use Only:							
<input type="checkbox"/> Standard 5 day	<u>[Signature]</u>	<u>5/13/19</u>	<u>12:46</u>	<u>[Signature]</u>	<u>5-13-19</u>	<u>5:13</u>	Client Alias: _____							
<input type="checkbox"/> Rush (1.5 x Standard)							Order Number: _____							
<input type="checkbox"/> Priority Rush (2 x Standard)							<input type="checkbox"/> Proper Container <u>Jr 50.7</u>							
Ask About Availability							<input type="checkbox"/> Sample Condition <u>26.8</u>							
							<input type="checkbox"/> Temperature <u>clear</u>							
							<input type="checkbox"/> Shipped Via: _____							
							Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

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This report cannot be used for ODA, OHA or OLCC compliance requirements.

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 1904441							
Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes		
CBDV-A	0.00978	0.01	%	97.8	85 - 115	Acceptable			
CBDV	0.0103	0.01	%	103	85 - 115	Acceptable			
CBD-A	0.00949	0.01	%	94.9	85 - 115	Acceptable			
CBG-A	0.00976	0.01	%	97.6	85 - 115	Acceptable			
CBG	0.0105	0.01	%	105	85 - 115	Acceptable			
CBD	0.0107	0.01	%	107	85 - 115	Acceptable			
THCV	0.0100	0.01	%	100	85 - 115	Acceptable			
THCVA	0.00966	0.01	%	96.6	85 - 115	Acceptable			
CBN	0.0106	0.01	%	106	85 - 115	Acceptable			
THC	0.0102	0.01	%	102	85 - 115	Acceptable			
D8THC	0.00984	0.01	%	98.4	85 - 115	Acceptable			
CBL	0.00975	0.01	%	97.5	85 - 115	Acceptable			
CBC	0.0108	0.01	%	108	85 - 115	Acceptable			
THCA	0.0104	0.01	%	104	85 - 115	Acceptable			
CBCA	0.00983	0.01	%	98.3	85 - 115	Acceptable			

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	ND	0.003	%	< 0.003	Acceptable	
CBDV	ND	0.003	%	< 0.003	Acceptable	
CBD-A	ND	0.003	%	< 0.003	Acceptable	
CBG-A	ND	0.003	%	< 0.003	Acceptable	
CBG	ND	0.003	%	< 0.003	Acceptable	
CBD	ND	0.003	%	< 0.003	Acceptable	
THCV	ND	0.003	%	< 0.003	Acceptable	
THCVA	ND	0.003	%	< 0.003	Acceptable	
CBN	ND	0.003	%	< 0.003	Acceptable	
THC	ND	0.003	%	< 0.003	Acceptable	
D8THC	ND	0.003	%	< 0.003	Acceptable	
CBL	ND	0.003	%	< 0.003	Acceptable	
CBC	ND	0.003	%	< 0.003	Acceptable	
THCA	ND	0.003	%	< 0.003	Acceptable	
CBCA	ND	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



This report cannot be used for ODA, OHA or OLCC compliance requirements.

J AOAC 2015 V98-6		Batch ID: 1904441						
Sample Duplicate		Sample ID: 19-005359-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBDV	0.0139	0.0139	0.003	%	0	< 20	Acceptable	
CBD-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG	0.0126	0.0125	0.003	%	0.797	< 20	Acceptable	
CBD	1.69	1.72	0.003	%	1.76	< 20	Acceptable	
THCV	0.00443	0.00443	0.003	%	0	< 20	Acceptable	
THCVA	ND	ND	0.003	%	0	< 20	Acceptable	
CBN	0.00352	0.0035	0.003	%	0.570	< 20	Acceptable	
THC	0.0646	0.0662	0.003	%	2.45	< 20	Acceptable	
D8THC	ND	ND	0.003	%	0	< 20	Acceptable	
CBL	ND	ND	0.003	%	0	< 20	Acceptable	
CBC	0.105	0.104	0.003	%	0.957	< 20	Acceptable	
THCA	ND	ND	0.003	%	0	< 20	Acceptable	
CBCA	ND	ND	0.003	%	0	< 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	Quantitaion 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.