



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



Report Number: 24-006373/D001.R000
Report Date: 06/18/2024
ORELAP#: OR100028
Purchase Order:
Received: 06/11/24 10:55

Customer: Healthy Roots
Product identity: 800 MG Pet Tincture
Client/Metric ID: .
Laboratory ID: 24-006373-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per Serving Size 707 mg/28.5g
CBC	0.115		%		
CBD	2.48		%		
CBDV	0.0203		%		Delta-9-THC-Total per 17.1 mg/28.5g
CBE	0.0121		%		
CBG	0.0260		%		(Reported in milligrams per serving)
CBN	0.0136		%		
CBT	0.0375		%		
Δ9-THC	0.0601		%		
Analyte per 28.5g	Result	Limits	Units	Status	
CBC per 28.5g	32.8		mg/28.5g		
CBD per 28.5g	707		mg/28.5g		
CBDV per 28.5g	5.79		mg/28.5g		
CBE per 28.5g	3.45		mg/28.5g		
CBG per 28.5g	7.41		mg/28.5g		
CBN per 28.5g	3.88		mg/28.5g		
CBT per 28.5g	10.7		mg/28.5g		
Δ9-THC per 28.5g	17.1		mg/28.5g		



Customer: Healthy Roots
 14325 NE Airport Way
 Portland Oregon 97230
 United States of America (USA)

Product identity: 800 MG Pet Tincture

Client/Metric ID: .

Sample Date:

Laboratory ID: 24-006373-0001

Evidence of Cooling: No

Temp: 24.9 °C

Serving Size #1: 28.5 g

Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) ^b		Units %	Batch: 2404477	Analyze: 6/12/24 4:57:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.115		%	0.00311	
CBC-A	< LOQ		%	0.00311	
CBC-Total	0.115		%	0.00584	
CBD [±]	2.48		%	0.0311	
CBD-A [±]	< LOQ		%	0.00311	
CBD-Total [±]	2.48		%	0.0338	
CBDV	0.0203		%	0.00311	
CBDV-A	< LOQ		%	0.00311	
CBDV-Total	0.0203		%	0.00580	
CBE	0.0121		%	0.00311	
CBG	0.0260		%	0.00311	
CBG-A	< LOQ		%	0.00311	
CBG-Total	0.0260		%	0.00580	
CBL	< LOQ		%	0.00311	
CBL-A	< LOQ		%	0.00311	
CBL-Total	< LOQ		%	0.00584	
CBN	0.0136		%	0.00311	
CBT	0.0375		%	0.00311	
Δ10-THC-9R	< LOQ		%	0.00311	
Δ10-THC-9S	< LOQ		%	0.00311	
Δ10-THC-Total	< LOQ		%	0.00622	
Δ8-THC [±]	< LOQ		%	0.00311	
Δ8-THCV	< LOQ		%	0.00311	
Δ9-THC [±]	0.0601		%	0.00311	
Δ9-THC-A [±]	< LOQ		%	0.00311	
Δ9-THC-Total [±]	0.0601		%	0.00584	
Δ9-THCP	< LOQ		%	0.00311	
Δ9-THCV	< LOQ		%	0.00311	
Δ9-THCV-A	< LOQ		%	0.00311	
Δ9-THCV-Total	< LOQ		%	0.00580	
exo-THC	< LOQ		%	0.00311	



Potency	Method: J AOAC 2015 V98-6 (mod) ^b	Units %	Batch: 2404477	Analyze: 6/12/24 4:57:00 PM
---------	--	---------	----------------	-----------------------------

Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids	2.76		%		

Potency per 28.5g	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2404477	Analyze: 6/12/24 4:57:00 PM
-------------------	--	-------------	----------------	-----------------------------

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g	32.8		mg/28.5g	0.886	
CBC-A per 28.5g	< LOQ		mg/28.5g	0.886	
CBC-Total per 28.5g	32.8		mg/28.5g	1.66	
CBD per 28.5g	707		mg/28.5g	8.86	
CBD-A per 28.5g [⊥]	< LOQ		mg/28.5g	0.886	
CBD-Total per 28.5g [⊥]	707		mg/28.5g	9.64	
CBDV per 28.5g	5.79		mg/28.5g	0.886	
CBDV-A per 28.5g	< LOQ		mg/28.5g	0.886	
CBDV-Total per 28.5g	5.79		mg/28.5g	1.65	
CBE per 28.5g	3.45		mg/28.5g	0.886	
CBG per 28.5g	7.41		mg/28.5g	0.886	
CBG-A per 28.5g	< LOQ		mg/28.5g	0.886	
CBG-Total per 28.5g	7.41		mg/28.5g	1.65	
CBL per 28.5g	< LOQ		mg/28.5g	0.886	
CBL-A per 28.5g	< LOQ		mg/28.5g	0.886	
CBL-Total per 28.5g	< LOQ		mg/28.5g	1.66	
CBN per 28.5g	3.88		mg/28.5g	0.886	
CBT per 28.5g	10.7		mg/28.5g	0.886	
Δ10-THC-9R per 28.5g	< LOQ		mg/28.5g	0.886	
Δ10-THC-9S per 28.5g	< LOQ		mg/28.5g	0.886	
Δ10-THC-Total per 28.5g	< LOQ		mg/28.5g	1.77	
Δ8-THC per 28.5g [⊥]	< LOQ		mg/28.5g	0.886	
Δ8-THCV per 28.5g	< LOQ		mg/28.5g	0.886	
Δ9-THC per 28.5g [⊥]	17.1		mg/28.5g	0.886	
Δ9-THC-Total per 28.5g	17.1		mg/28.5g	1.66	
Δ9-THCP per 28.5g	< LOQ		mg/28.5g	0.886	
Δ9-THCV per 28.5g	< LOQ		mg/28.5g	0.886	
Δ9-THCV-A per 28.5g	< LOQ		mg/28.5g	0.886	
Δ9-THCV-Total per 28.5g	< LOQ		mg/28.5g	1.66	
exo-THC per 28.5g	< LOQ		mg/28.5g	0.886	
THC-A per 28.5g [⊥]	< LOQ		mg/28.5g	0.886	
Total Cannabinoids per 28.5g	788		mg/28.5g		



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



Report Number: 24-006373/D001.R000
Report Date: 06/18/2024
ORELAP#: OR100028
Purchase Order:
Received: 06/11/24 10:55

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.

Ⓟ = ISO/IEC 17025:2017 accredited method.

⊥ = TNI accredited analyte.

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



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



Report Number: 24-006373/D001.R000
Report Date: 06/18/2024
ORELAP#: OR100028
Purchase Order:
Received: 06/11/24 10:55



Hemp & Cannabis
Chain of Custody

Healthy-Roots-Hemp-
Products-1718055016

ORELAP ID: OR100028 ANAB ISO 17025 ID: AT1508

Company Details Company: <u>Healthy Roots Hemp Products</u> Contact: <u>Liz Cardoza</u> Street Address: <u>21563 SCrestview Drive</u> City, State, Zip: <u>Oregon City, OR 97045</u> Email: <u>Liz@healthyrhemp.com</u> Email, CC: <u>Alaincardoza3@gmail.com</u> Contact Phone: <u>503-496-2329</u> Company Phone: <u>503-496-2329</u> Billing Information Billing Phone: <u>503-496-2329</u> Billing Email: <u>Liz@healthyrhemp.com</u>				Project Details Turnaround Time: <u>5 Business Days Req. For Micro Testing Standard</u> Relinquishment Sampling, Courier & Shipping Options: <u>Drop Off at Laboratory</u> Compliance: <u>Compliance</u> Receipt Information Pre-Log Storage: <u>Canna Shelves</u> Sample Condition: <u>Satisfactory</u>			Testing H0010 - Potency Cannabis (Basic+Expanded)
#	Sample Name	Material	Additional Test Requests and Sample Comments	Amount Provided	Reporting Unit	Speci cations	
1	800 MG Pet Tincture	Cannabinoid Tincture	Report in MG and Percentage	28.5 g	mg/g	Serving size is 28.5 grams	✓

Relinquished By	Date	Time	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
<i>Liz Cardoza</i>	<i>06/10/2024</i>	<i>14:30</i>	<i>DM</i>	<i>06/11/2024</i>	<i>10:55</i>	<i>24.90</i>	<i>No</i>

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of services](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories
12423 NE Whitaker Way
Portland, OR 97230

P: (503) 254-1794
info@columbiaboratories.com

Page 1 of 1
www.columbiaboratories.com


Laboratory Quality Control Results
J AOAC 2015 V98-6 **Batch ID: 0**
Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0278	0.0278	%	100	80.0 - 120	Acceptable	
CBDV	2	0.0340	0.0322	%	106	80.0 - 120	Acceptable	
CBE	2	0.0318	0.0317	%	100	80.0 - 120	Acceptable	
CBDA	1	0.0302	0.0301	%	100	90.0 - 110	Acceptable	
CBGA	1	0.0296	0.0298	%	99.3	80.0 - 120	Acceptable	
CBG	1	0.0288	0.0293	%	98.4	80.0 - 120	Acceptable	
CBD	1	0.0314	0.0317	%	99.1	90.0 - 110	Acceptable	
THCV	2	0.0332	0.0323	%	103	80.0 - 120	Acceptable	
d8THCV	2	0.0314	0.0313	%	100	80.0 - 120	Acceptable	
THCVA	2	0.0307	0.0302	%	102	80.0 - 120	Acceptable	
CBN	1	0.0299	0.0298	%	100	80.0 - 120	Acceptable	
exo-THC	2	0.0311	0.0312	%	99.5	80.0 - 120	Acceptable	
d9THC	1	0.0318	0.0316	%	101	90.0 - 110	Acceptable	
d8THC	1	0.0312	0.0309	%	101	90.0 - 110	Acceptable	
9S-d10THC	1	0.0311	0.0310	%	100	80.0 - 120	Acceptable	
CBL	2	0.0297	0.0282	%	105	80.0 - 120	Acceptable	
9R-d10THC	1	0.0302	0.0332	%	91.1	80.0 - 120	Acceptable	
CBC	2	0.0302	0.0302	%	100.0	80.0 - 120	Acceptable	
THCA	1	0.0297	0.0298	%	99.7	90.0 - 110	Acceptable	
CBCA	2	0.0312	0.0311	%	100	80.0 - 120	Acceptable	
CBLA	2	0.0316	0.0317	%	99.7	80.0 - 120	Acceptable	
d9THCP	2	0.0324	0.0308	%	105	80.0 - 120	Acceptable	
CBT	2	0.0314	0.0315	%	99.6	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBDV	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBE	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBDA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBGA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBG	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBD	<LOQ	0.00331	%	< 0.00331	Acceptable	
THCV	<LOQ	0.00331	%	< 0.00331	Acceptable	
d8THCV	<LOQ	0.00331	%	< 0.00331	Acceptable	
THCVA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBN	<LOQ	0.00331	%	< 0.00331	Acceptable	
exo-THC	<LOQ	0.00331	%	< 0.00331	Acceptable	
d9THC	<LOQ	0.00331	%	< 0.00331	Acceptable	
d8THC	<LOQ	0.00331	%	< 0.00331	Acceptable	
9S-d10THC	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBL	<LOQ	0.00331	%	< 0.00331	Acceptable	
9R-d10THC	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBC	<LOQ	0.00331	%	< 0.00331	Acceptable	
THCA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBCA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBLA	<LOQ	0.00331	%	< 0.00331	Acceptable	
d9THCP	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBT	<LOQ	0.00331	%	< 0.00331	Acceptable	

Abbreviations

 ND - None Detected at or above MRL
 RPD - Relative Percent Difference
 LOQ - Limit of Quantitation

Units of Measure:

% - Percent


Laboratory Quality Control Results

J AOAC 2015 V98-6			Batch ID: 0					
Sample Duplicate			Sample ID: 24-006354-0001					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBGA	19.6	20.2	0.00312	%	2.74	< 20	Acceptable	
CBG	1.71	1.61	0.00312	%	6.07	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBN	0.0228	0.0226	0.00312	%	0.871	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d9THC	0.0109	0.0108	0.00312	%	1.18	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBC	0.128	0.128	0.00312	%	0.0155	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBCA	0.0502	0.0449	0.00312	%	11.1	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBT	0.0289	0.0282	0.00312	%	2.48	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
 RPD - Relative Percent Difference
 LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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



Report Number: 24-006373/D001.R000
Report Date: 06/18/2024
ORELAP#: OR100028
Purchase Order:
Received: 06/11/24 10:55





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.