



**Report Number:** 24-007702/D001.R000

**Report Date:** 07/23/2024 ORELAP#: OR100028

**Purchase Order:** 

07/16/24 10:30 Received:

**Customer:** Healthy Roots Product identity: 3,000 MG Tincture

Client/Metrc ID:

Laboratory ID: 24-007702-0001

## Summary

Potency:						
Analyte	Result	Limits	Units	Status	CBD-Total per Serving Size 2960 mg/28.5g	
CBD	10.4		%			
CBDV	0.0318		%			
Δ8-THC	0.0162		%		Delta-9-THC-Total per <loq< td=""><td></td></loq<>	
Analyte per 28.5g	Result	Limits	Units	Status	(Reported in milligrams per serving)	
CBD per 28.5g	2960		mg/28.5g			
CBDV per 28.5g	9.06		mg/28.5g			
∆8-THC per 28.5g	4.62		mg/28.5g			





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**Received:** 07/16/24 10:30

**Customer:** Healthy Roots

14325 NE Airport Way Portland Oregon 97230

United States of America (USA)

**Product identity:** 3,000 MG Tincture

Client/Metrc ID:

Sample Date:

**Laboratory ID:** 24-007702-0001

Evidence of Cooling: No
Temp: 21.5 °C
Relinquished by: client
Serving Size #1: 28.5 g

# **Sample Results**

Potency	Method: J AOAC 2015 V98-6	6 (mod) <sup>þ</sup>	Units %	<b>Batch:</b> 2405490	<b>Analyze:</b> 7/22/24 9:37:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.00329	
CBC-A	< LOQ		%	0.00329	
CBC-Total	< LOQ		%	0.00618	
CBD <sup>⊥</sup>	10.4		%	0.329	
CBD-A <sup>⊥</sup>	< LOQ		%	0.00329	
CBD-Total <sup>⊥</sup>	10.4		%	0.332	
CBDV	0.0318		%	0.00329	
CBDV-A	< LOQ		%	0.00329	
CBDV-Total	0.0318		%	0.00614	
CBE	< LOQ		%	0.00329	
CBG	< LOQ		%	0.00329	
CBG-A	< LOQ		%	0.00329	
CBG-Total	< LOQ		%	0.00614	
CBL	< LOQ		%	0.00329	
CBL-A	< LOQ		%	0.00329	
CBL-Total	< LOQ		%	0.00618	
CBN	< LOQ		%	0.00329	
CBT	< LOQ		%	0.00329	
$\Delta 10$ -THC-9R	< LOQ		%	0.00329	
$\Delta 10$ -THC-9S	< LOQ		%	0.00329	
$\Delta 10$ -THC-Total	< LOQ		%	0.00658	
$\Delta 8\text{-THC}^{\perp}$	0.0162		%	0.00329	
Δ8-THCV	< LOQ		%	0.00329	
Δ9-THC <sup>⊥</sup>	< LOQ		%	0.00329	
Δ9-THC-A <sup>⊥</sup>	< LOQ		%	0.00329	
Δ9-THC-Total <sup>⊥</sup>	< LOQ		%	0.00618	
Δ9-THCP	< LOQ		%	0.00329	
Δ9-THCV	< LOQ		%	0.00329	
Δ9-THCV-A	< LOQ		%	0.00329	
Δ9-THCV-Total	< LOQ		%	0.00614	

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**Report Number: Report Date:** 

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07/16/24 10:30



Potency	Method: J AOAC 2015 V98	3-6 (mod) <sup>þ</sup>	Units %	Batch: 2405490	<b>Analyze:</b> 7/22/24 9:37:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
exo-THC	< LOQ		%	0.00329	
Total Cannahinoids	10.4		0/2		

Potency per 28.5g	Method: J AOAC 2015 VS	98-6 (mod) <sup>þ</sup>	Units mg/se Bate	ch: 2405490	<b>Analyze:</b> 7/22/24 9:37:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g	< LOQ		mg/28.5g	0.938	
CBC-A per 28.5g	< LOQ		mg/28.5g	0.938	
CBC-Total per 28.5g	< LOQ		mg/28.5g	1.76	
CBD per 28.5g	2960		mg/28.5g	93.8	
CBD-A per 28.5g <sup>⊥</sup>	< LOQ		mg/28.5g	0.938	
CBD-Total per 28.5g <sup>⊥</sup>	2960		mg/28.5g	94.6	
CBDV per 28.5g	9.06		mg/28.5g	0.938	
CBDV-A per 28.5g	< LOQ		mg/28.5g	0.938	
CBDV-Total per 28.5g	9.06		mg/28.5g	1.75	
CBE per 28.5g	< LOQ		mg/28.5g	0.938	
CBG per 28.5g	< LOQ		mg/28.5g	0.938	
CBG-A per 28.5g	< LOQ		mg/28.5g	0.938	
CBG-Total per 28.5g	< LOQ		mg/28.5g	1.75	
CBL per 28.5g	< LOQ		mg/28.5g	0.938	
CBL-A per 28.5g	< LOQ		mg/28.5g	0.938	
CBL-Total per 28.5g	< LOQ		mg/28.5g	1.76	
CBN per 28.5g	< LOQ		mg/28.5g	0.938	
CBT per 28.5g	< LOQ		mg/28.5g	0.938	
$\Delta 10$ -THC-9R per 28.5g	< LOQ		mg/28.5g	0.938	
$\Delta10$ -THC-9S per 28.5g	< LOQ		mg/28.5g	0.938	
$\Delta 10$ -THC-Total per 28.5g	< LOQ		mg/28.5g	1.88	
$\Delta 8\text{-THC per }28.5g^{\perp}$	4.62		mg/28.5g	0.938	
$\Delta 8$ -THCV per 28.5g	< LOQ		mg/28.5g	0.938	
$\Delta 9\text{-THC per }28.5g^{\perp}$	< LOQ		mg/28.5g	0.938	
$\Delta$ 9-THC-Total per 28.5g	< LOQ		mg/28.5g	1.76	
Δ9-THCP per 28.5g	< LOQ		mg/28.5g	0.938	
Δ9-THCV per 28.5g	< LOQ		mg/28.5g	0.938	
Δ9-THCV-A per 28.5g	< LOQ		mg/28.5g	0.938	
$\Delta 9$ -THCV-Total per 28.5g	< LOQ		mg/28.5g	1.76	
exo-THC per 28.5g	< LOQ		mg/28.5g	0.938	
THC-A per 28.5g <sup>⊥</sup>	< LOQ		mg/28.5g	0.938	
Total Cannabinoids per 28.	5g 2980		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.

b = ISO/IEC 17025:2017 accredited method.

 $\perp$  = TNI accredited analyte.

### Units of Measure

g = Gram mg/28.5g = Milligram per 28.5g% = Percentage of sample % wt =  $\mu g/g$  divided by 10,000

Approved Signatory

Derrick Tanner General Manager





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Hemp & CannabisHealthy-Roots-Hemp-Chain of CustodyProducts-1721148546

Testing Company Details Company: Healthy Roots Hemp Products Potency Cannabis (Basic+Expanded) Contact: Liz Cardoza Project Details Street Address: 21563 SCrestview Drive Turnaround Time: 5 Business Days | Req. For Micro Testing | Standard City, State, Zip: Oregon City, OR 97045 Relinquishment | Sampling, Courier & Shipping Options: Drop Off at Laboratory Email: Liz@healthyrootshemp.com Compliance: Compliance Email, CC: Alaincardoza3@gmail.com Receipt Information Contact Phone: 503-496-2329 Prelog Storage: Canna Shelves Company Phone: <u>503-496-2329</u> Sample Condition: Satisfactory Billing Information H0010 -Billing Phone: 503-496-2329 Billing Email: Liz@healthyrootshemp.com Sample Name Material Amount Provided Reporting Unit Additional Test Requests and Sample Comments Report in MG and Percentage 3.000 MGTincture Cannabinoid Tincture mg/g

I	Relinquished By	Date	Time	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
	Liz Cardoza	07/16/2024	09:49	ont	07/16/2024	10;30	21,50	No

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the <u>current terms of services</u> 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

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Received: 07/16/24 10:30

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

#### **Laboratory Quality Control Results**

Laboratory Quality Control Results  J AOAC 2015 V98-6  Batch ID: 2405490										
Laboratory Contro										
Analyte	LCS	Result	Spike	Units	% Rec		Limits	S	Evaluation	Notes
CBDVA	2	0.0284	0.0299	%	95	80.0	-	120	Acceptable	
CBDV	2	0.0309	0.0320	%	97	80.0	_	120	Acceptable	
CBE	2	0.0304	0.0319	%	95	80.0	_	120	Acceptable	
CBDA	1	0.0269	0.0287	%	93.8	90.0	-	110	Acceptable	
CBGA	1	0.0273	0.0292	%	93.6	80.0	-	120	Acceptable	
CBG	1	0.0322	0.0345	%	93.2	80.0	-	120	Acceptable	
CBD	1	0.0311	0.0334	%	93.3	90.0	-	110	Acceptable	
THCV	2	0.0262	0.0273	%	96	80.0	-	120	Acceptable	
d8THCV	2	0.0284	0.0298	%	95	80.0	-	120	Acceptable	
THCVA	2	0.0285	0.0298	%	96	80.0	-	120	Acceptable	
CBN	1	0.0300	0.0317	%	94.7	80.0	-	120	Acceptable	
exo-THC	2	0.0284	0.0297	%	96	80.0	-	120	Acceptable	
d9THC	1	0.0313	0.0324	%	96.4	90.0	-	110	Acceptable	
d8THC	1	0.0268	0.0289	%	92.8	90.0	-	110	Acceptable	
9S-d10THC	1	0.0286	0.0303	%	94.2	80.0	-	120	Acceptable	
CBL	2	0.0301	0.0308	%	98	80.0	-	120	Acceptable	
9R-d10THC	1	0.0277	0.0297	%	93.0	80.0	-	120	Acceptable	
CBC	2	0.0305	0.0322	%	95	80.0	-	120	Acceptable	
THCA	1	0.0273	0.0293	%	93.1	90.0	-	110	Acceptable	
CBCA	2	0.0293	0.0309	%	95	80.0	-	120	Acceptable	
CBLA	2	0.0300	0.0315	%	95	80.0	-	120	Acceptable	
d9THCP	2	0.0297	0.0309	%	96	80.0	-	120	Acceptable	
CBT	2	0.0303	0.0317	%	96	80.0	-	120	Acceptable	
Method Blank										
Analyte		esult	LOQ	Units		Limits		Evaluation	Notes	
CBDVA		LOQ	0.00320		%		0.003	-	Acceptable	
CBDV		LOQ	0.00320		%		0.003	-	Acceptable	
CBE		LOQ	0.00320		%		0.003		Acceptable	
CBDA		LOQ	0.00320		%		0.003	-	Acceptable	
CBGA		LOQ	0.00320		%		0.003		Acceptable	
CBG		LOQ	0.00320		%		< 0.00320		Acceptable	
CBD		LOQ	0.00320		%		0.003		Acceptable	
THCV		LOQ	0.00320		%		0.003		Acceptable	
d8THCV		LOQ	0.00320		%		0.003		Acceptable	
THCVA		LOQ	0.00320		%		0.003		Acceptable	
CBN		LOQ	0.00320		%		0.003		Acceptable	
exo-THC		LOQ	0.00320		%		0.003		Acceptable	
d9THC		LOQ	0.00320		%		0.003		Acceptable	
d8THC		LOQ	0.00320		%		0.003		Acceptable	
9S-d10THC		LOQ	0.00320		%		0.003		Acceptable	
CBL OB 410THC		LOQ	0.00320	1	%		0.003		Acceptable	
9R-d10THC		LOQ	0.00320	<b>!</b>	%		0.003		Acceptable	
CBC		LOQ	0.00320	ļ	%		0.003		Acceptable	
THCA		LOQ	0.00320	1	%		0.003		Acceptable	
CBCA		LOQ	0.00320		%		< 0.00320 < 0.00320		Acceptable	
CBLA		LOQ	0.00320	1	%			-	Acceptable	
d9THCP	I <	LOQ	0.00320	1	%		0.003	20	Acceptable	1

Abbreviations

CBT

ND - None Detected at or above MRL RPD - Relative Percent Difference

<LOQ

0.00320

LOQ - Limit of Quantitation

Units of Measure:

% - Percent

< 0.00320

Acceptable





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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				•	Bat	tch ID: 2405490					
Sample Duplicate			Sample ID: <b>24-007701-0001</b>								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes			
CBDVA	<loq< td=""><td><loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.00323	%	NA	< 20	Acceptable				
CBDV	0.0187	0.0183	0.00323	%	2.55	< 20	Acceptable				
CBE	0.00779	0.00753	0.00323	%	3.35	< 20	Acceptable				
CBDA	<loq< td=""><td><loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.00323	%	NA	< 20	Acceptable				
CBGA	<loq< td=""><td><loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.00323	%	NA	< 20	Acceptable				
CBG	0.0163	0.0157	0.00323	%	3.78	< 20	Acceptable				
CBD	1.65	1.63	0.00323	%	0.973	< 20	Acceptable				
THCV	<loq< td=""><td><loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.00323	%	NA	< 20	Acceptable				
d8THCV	<loq< td=""><td><loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.00323	%	NA	< 20	Acceptable				
THCVA	<loq< td=""><td><loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.00323	%	NA	< 20	Acceptable				
CBN	0.00910	0.00943	0.00323	%	3.64	< 20	Acceptable				
exo-THC	<loq< td=""><td><loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.00323	%	NA	< 20	Acceptable				
d9THC	0.0389	0.0385	0.00323	%	0.922	< 20	Acceptable				
d8THC	0.00778	0.00785	0.00323	%	0.834	< 20	Acceptable				
9S-d10THC	<loq< td=""><td><loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.00323	%	NA	< 20	Acceptable				
CBL	<loq< td=""><td><loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.00323	%	NA	< 20	Acceptable				
9R-d10THC	<loq< td=""><td><loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.00323	%	NA	< 20	Acceptable				
CBC	0.0730	0.0735	0.00323	%	0.752	< 20	Acceptable				
THCA	<loq< td=""><td><loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.00323	%	NA	< 20	Acceptable				
CBCA	<loq< td=""><td><loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.00323	%	NA	< 20	Acceptable				
CBLA	<loq< td=""><td><loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.00323	%	NA	< 20	Acceptable				
d9THCP	<loq< td=""><td><loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.00323</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.00323	%	NA	< 20	Acceptable				
CBT	0.0238	0.0238	0.00323	%	0.0801	< 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.
В	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.