



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



**Report Number:** 24-008051/D002.R000  
**Report Date:** 07/31/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 07/24/24 12:24

**Customer:** Healthy Roots  
**Product identity:** Travel Root Butter 100 mg  
**Client/Metric ID:** .  
**Laboratory ID:** 24-008051-0002

Summary

Potency:						
Analyte	Result	Limits	Units	Status		
CBC	0.0331		%		CBD-Total per Serving Size	101 mg/5g
CBD	2.01		%			
CBDV	0.00860		%		Delta-9-THC-Total per	1.07 mg/5g
CBG	0.00847		%			
CBN	0.00478		%		(Reported in milligrams per serving)	
CBT	0.0110		%			
Δ9-THC	0.0214		%			
Analyte per 5g	Result	Limits	Units	Status		
CBC per 5g	1.66		mg/5g			
CBD per 5g	101		mg/5g			
CBDV per 5g	0.430		mg/5g			
CBG per 5g	0.424		mg/5g			
CBN per 5g	0.239		mg/5g			
CBT per 5g	0.550		mg/5g			
Δ9-THC per 5g	1.07		mg/5g			



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

**Product identity:** Travel Root Butter 100 mg

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 24-008051-0002

**Evidence of Cooling:** No

**Temp:** 24.1 °C

**Relinquished by:** Client

**Serving Size #1:** 5 g

### Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>		Units %	Batch: 2405685	Analyze: 7/26/24 11:12:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0331		%	0.00328	
CBC-A	< LOQ		%	0.00328	
CBC-Total	0.0331		%	0.00615	
CBD <sup>⊥</sup>	2.01		%	0.0328	
CBD-A <sup>⊥</sup>	< LOQ		%	0.00328	
CBD-Total <sup>⊥</sup>	2.01		%	0.0357	
CBDV	0.00860		%	0.00328	
CBDV-A	< LOQ		%	0.00328	
CBDV-Total	0.00860		%	0.00612	
CBE	< LOQ		%	0.00328	
CBG	0.00847		%	0.00328	
CBG-A	< LOQ		%	0.00328	
CBG-Total	0.00847		%	0.00612	
CBL	< LOQ		%	0.00328	
CBL-A	< LOQ		%	0.00328	
CBL-Total	< LOQ		%	0.00615	
CBN	0.00478		%	0.00328	
CBT	0.0110		%	0.00328	
Δ10-THC-9R	< LOQ		%	0.00328	
Δ10-THC-9S	< LOQ		%	0.00328	
Δ10-THC-Total	< LOQ		%	0.00656	
Δ8-THC <sup>⊥</sup>	< LOQ		%	0.00328	
Δ8-THCV	< LOQ		%	0.00328	
Δ9-THC <sup>⊥</sup>	0.0214		%	0.00328	
Δ9-THC-A <sup>⊥</sup>	< LOQ		%	0.00328	
Δ9-THC-Total <sup>⊥</sup>	0.0214		%	0.00615	
Δ9-THCP	< LOQ		%	0.00328	
Δ9-THCV	< LOQ		%	0.00328	
Δ9-THCV-A	< LOQ		%	0.00328	
Δ9-THCV-Total	< LOQ		%	0.00612	



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



**Report Number:** 24-008051/D002.R000  
**Report Date:** 07/31/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 07/24/24 12:24

Potency	Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>		Units %	Batch: 2405685	Analyze: 7/26/24 11:12:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
exo-THC	< LOQ		%	0.00328	
Total Cannabinoids	2.10		%		

Potency per 5g	Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>	Units mg/se	Batch: 2405685	Analyze: 7/26/24 11:12:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 5g	1.66		mg/5g	0.164	
CBC-A per 5g	< LOQ		mg/5g	0.164	
CBC-Total per 5g	1.66		mg/5g	0.308	
CBD per 5g	101		mg/5g	1.64	
CBD-A per 5g <sup>±</sup>	< LOQ		mg/5g	0.164	
CBD-Total per 5g <sup>±</sup>	101		mg/5g	1.78	
CBDV per 5g	0.430		mg/5g	0.164	
CBDV-A per 5g	< LOQ		mg/5g	0.164	
CBDV-Total per 5g	0.430		mg/5g	0.306	
CBE per 5g	< LOQ		mg/5g	0.164	
CBG per 5g	0.424		mg/5g	0.164	
CBG-A per 5g	< LOQ		mg/5g	0.164	
CBG-Total per 5g	0.424		mg/5g	0.306	
CBL per 5g	< LOQ		mg/5g	0.164	
CBL-A per 5g	< LOQ		mg/5g	0.164	
CBL-Total per 5g	< LOQ		mg/5g	0.308	
CBN per 5g	0.239		mg/5g	0.164	
CBT per 5g	0.550		mg/5g	0.164	
Δ10-THC-9R per 5g	< LOQ		mg/5g	0.164	
Δ10-THC-9S per 5g	< LOQ		mg/5g	0.164	
Δ10-THC-Total per 5g	< LOQ		mg/5g	0.328	
Δ8-THC per 5g <sup>±</sup>	< LOQ		mg/5g	0.164	
Δ8-THCV per 5g	< LOQ		mg/5g	0.164	
Δ9-THC per 5g <sup>±</sup>	1.07		mg/5g	0.164	
Δ9-THC-Total per 5g	1.07		mg/5g	0.308	
Δ9-THCP per 5g	< LOQ		mg/5g	0.164	
Δ9-THCV per 5g	< LOQ		mg/5g	0.164	
Δ9-THCV-A per 5g	< LOQ		mg/5g	0.164	
Δ9-THCV-Total per 5g	< LOQ		mg/5g	0.308	
exo-THC per 5g	< LOQ		mg/5g	0.164	
THC-A per 5g <sup>±</sup>	< LOQ		mg/5g	0.164	
Total Cannabinoids per 5g	105		mg/5g		

**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/5g = Milligram per 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:** 24-008051/D002.R000  
**Report Date:** 07/31/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 07/24/24 12:24



Hemp & Cannabis  
Chain of Custody

Healthy-Roots-Hemp-  
Products-1721846896

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@healthyrootshemp.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@healthyrootshemp.com</u>			Project Details Turnaround Time: <u>5 Business Days</u>   <u>Reg. For Micro Testing</u>   <u>Standard</u> Relinquishment   Sampling, Courier & Shipping Options: <u>Drop Off at Laboratory</u> Compliance: <u>Compliance</u> Receipt Information Prelog Storage: <u>Canna Shelves</u> Sample Condition: <u>Satisfactory</u>			Testing
						H-0010 - Potency Cannabis (Basic+Expanded)
#	Sample Name	Material	Amount Provided	Reporting Unit	Additional Test Requests and Sample Comments	
1	500 mg Root Butter	Cannabinoid Topical	25 g	mg/g	Report in MGand Percentage	
2	Travel Root Butter 100 mg	Cannabinoid Topical	5 g	mg/g	Report in MGand Percentage	

Relinquished By	Date	Time	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
<i>Liz Cardoza</i>	<i>07/24/2024</i>	<i>11:48</i>	<i>ent</i>	<i>07/24/2024</i>	<i>12:24</i>	<i>24.10</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@columbialaboratories.com](mailto:info@columbialaboratories.com)

Page 1 of 1  
[www.columbialaboratories.com](http://www.columbialaboratories.com)


**Laboratory Quality Control Results**
**J AOAC 2015 V98-6** **Batch ID: 2405685**
**Laboratory Control Sample**

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0303	0.0314	%	96.4	80.0 - 120	Acceptable	
CBDV	2	0.0322	0.0337	%	95.6	80.0 - 120	Acceptable	
CBE	2	0.0320	0.0336	%	95.2	80.0 - 120	Acceptable	
CBDA	1	0.0282	0.0292	%	96.4	90.0 - 110	Acceptable	
CBGA	1	0.0286	0.0297	%	96.2	80.0 - 120	Acceptable	
CBG	1	0.0339	0.0352	%	96.3	80.0 - 120	Acceptable	
CBD	1	0.0327	0.0340	%	96.1	90.0 - 110	Acceptable	
THCV	2	0.0279	0.0288	%	97.1	80.0 - 120	Acceptable	
d8THCV	2	0.0299	0.0314	%	95.4	80.0 - 120	Acceptable	
THCVA	2	0.0302	0.0314	%	96.2	80.0 - 120	Acceptable	
CBN	1	0.0314	0.0323	%	97.2	80.0 - 120	Acceptable	
exo-THC	2	0.0299	0.0313	%	95.7	80.0 - 120	Acceptable	
d9THC	1	0.0324	0.0331	%	97.9	90.0 - 110	Acceptable	
d8THC	1	0.0283	0.0295	%	96.0	90.0 - 110	Acceptable	
9S-d10THC	1	0.0298	0.0309	%	96.4	80.0 - 120	Acceptable	
CBL	2	0.0326	0.0324	%	101	80.0 - 120	Acceptable	
9R-d10THC	1	0.0289	0.0303	%	95.4	80.0 - 120	Acceptable	
CBC	2	0.0319	0.0339	%	94.1	80.0 - 120	Acceptable	
THCA	1	0.0286	0.0299	%	95.6	90.0 - 110	Acceptable	
CBCA	2	0.0306	0.0325	%	94.0	80.0 - 120	Acceptable	
CBLA	2	0.0316	0.0331	%	95.5	80.0 - 120	Acceptable	
d9THCP	2	0.0313	0.0325	%	96.4	80.0 - 120	Acceptable	
CBT	2	0.0319	0.0334	%	95.8	80.0 - 120	Acceptable	

**Method Blank**

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBDV	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBE	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBDA	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBGA	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBG	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBD	<LOQ	0.00323	%	< 0.00323	Acceptable	
THCV	<LOQ	0.00323	%	< 0.00323	Acceptable	
d8THCV	<LOQ	0.00323	%	< 0.00323	Acceptable	
THCVA	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBN	<LOQ	0.00323	%	< 0.00323	Acceptable	
exo-THC	<LOQ	0.00323	%	< 0.00323	Acceptable	
d9THC	<LOQ	0.00323	%	< 0.00323	Acceptable	
d8THC	<LOQ	0.00323	%	< 0.00323	Acceptable	
9S-d10THC	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBL	<LOQ	0.00323	%	< 0.00323	Acceptable	
9R-d10THC	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBC	<LOQ	0.00323	%	< 0.00323	Acceptable	
THCA	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBCA	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBLA	<LOQ	0.00323	%	< 0.00323	Acceptable	
d9THCP	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBT	<LOQ	0.00323	%	< 0.00323	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: 2405685					
Sample Duplicate			Sample ID: 24-008045-0001					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBDV	0.0774	0.0767	0.00321	%	0.822	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBG	0.474	0.471	0.00321	%	0.649	< 20	Acceptable	
CBD	18.8	18.9	0.00321	%	0.510	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
d9THC	<LOQ	0.00383	0.00321	%	NA	< 20	Acceptable	R2
d8THC	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBC	0.133	0.130	0.00321	%	1.80	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBT	0.0105	0.0114	0.00321	%	8.15	< 20	Acceptable	

**Abbreviations**

ND - None Detected at or above MRL

RPD - Relative Percent Difference

LOQ - Limit of Quantitation

R2 - Sample replicates RPD non-calculable, as only one replicate is within analytical range.

**Units of Measure:**

% - Percent



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



**Report Number:** 24-008051/D002.R000  
**Report Date:** 07/31/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 07/24/24 12:24







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.