



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



**Report Number:** 22-001533/D002.R000  
**Report Date:** 02/15/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 02/09/22 15:21

**Customer:** Healthy Roots  
**Product identity:** #193, Travel Root Butter  
**Client/Metric ID:** .  
**Laboratory ID:** 22-001533-0001

## Summary

### Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 5g	106 mg/5g
CBC	0.0636		%			
CBD	2.12		%			
CBD-A	0.00983		%		THC-Total per 5g	1.09 mg/5g
CBDV†	0.00661		%		(Reported in milligrams per serving)	
CBG†	0.0108		%			
CBT†	0.00411		%			
Δ8-THC†	0.00615		%			
Δ9-THC	0.0218		%			
Analyte per 5g	Result	Limits	Units	Status		
CBC per 5g†	3.18		mg/5g			
CBD per 5g	106		mg/5g			
CBD-A per 5g	0.492		mg/5g			
CBDV per 5g†	0.331		mg/5g			
CBG per 5g†	0.540		mg/5g			
CBT per 5g†	0.206		mg/5g			
Δ8-THC per 5g†	0.308		mg/5g			
Δ9-THC per 5g	1.09		mg/5g			



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**Customer:** Healthy Roots  
**Product identity:** #193, Travel Root Butter  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 22-001533-0001  
**Evidence of Cooling:** No  
**Temp:** 21.6 °C  
**Relinquished by:** Client  
**Serving Size #1:** 5 g

### Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2201220	Analyze: 2/11/22 1:07:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0636		%	0.0033	
CBC-A <sup>†</sup>	< LOQ		%	0.0033	
CBC-Total <sup>†</sup>	0.0636		%	0.0062	
CBD	2.12		%	0.0332	
CBD-A	0.00983		%	0.0033	
CBD-Total	2.13		%	0.0361	
CBDV <sup>†</sup>	0.00661		%	0.0033	
CBDV-A <sup>†</sup>	< LOQ		%	0.0033	
CBDV-Total <sup>†</sup>	0.00661		%	0.0062	
CBE <sup>†</sup>	< LOQ		%	0.0033	
CBG <sup>†</sup>	0.0108		%	0.0033	
CBG-A <sup>†</sup>	< LOQ		%	0.0033	
CBG-Total	0.0108		%	0.0062	
CBL <sup>†</sup>	< LOQ		%	0.0033	
CBL-A <sup>†</sup>	< LOQ		%	0.0033	
CBL-Total <sup>†</sup>	< LOQ		%	0.0062	
CBN	< LOQ		%	0.0033	
CBT <sup>†</sup>	0.00411		%	0.0033	
Δ8-THCV	< LOQ		%	0.0033	
Δ8-THC <sup>†</sup>	0.00615		%	0.0033	
Δ9-THC	0.0218		%	0.0033	
THC-A	< LOQ		%	0.0033	
THC-Total	0.0218		%	0.0062	
THCV <sup>†</sup>	< LOQ		%	0.0033	
THCV-A <sup>†</sup>	< LOQ		%	0.0033	
THCV-Total <sup>†</sup>	< LOQ		%	0.0062	
<b>Total Cannabinoids<sup>†</sup></b>	<b>2.24</b>		%		

Potency per 5g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2201220	Analyze: 2/11/22 1:07:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 5g <sup>†</sup>	3.18		mg/5g	0.166	
CBC-A per 5g <sup>†</sup>	< LOQ		mg/5g	0.166	
CBC-Total per 5g <sup>†</sup>	3.18		mg/5g	0.312	



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Potency per 5g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2201220 Analyze: 2/11/22 1:07:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 5g	106		mg/5g	1.66	
CBD-A per 5g	0.492		mg/5g	0.166	
CBD-Total per 5g	106		mg/5g	1.81	
CBDV per 5g <sup>†</sup>	0.331		mg/5g	0.166	
CBDV-A per 5g <sup>†</sup>	< LOQ		mg/5g	0.166	
CBDV-Total per 5g <sup>†</sup>	0.331		mg/5g	0.310	
CBE per 5g <sup>†</sup>	< LOQ		mg/5g	0.166	
CBG per 5g <sup>†</sup>	0.540		mg/5g	0.166	
CBG-A per 5g <sup>†</sup>	< LOQ		mg/5g	0.166	
CBG-Total per 5g <sup>†</sup>	0.540		mg/5g	0.310	
CBL per 5g <sup>†</sup>	< LOQ		mg/5g	0.166	
CBL-A per 5g <sup>†</sup>	< LOQ		mg/5g	0.166	
CBL-Total per 5g <sup>†</sup>	< LOQ		mg/5g	0.312	
CBN per 5g	< LOQ		mg/5g	0.166	
CBT per 5g <sup>†</sup>	0.206		mg/5g	0.166	
Δ8-THCV per 5g <sup>†</sup>	< LOQ		mg/5g	0.166	
Δ8-THC per 5g <sup>†</sup>	0.308		mg/5g	0.166	
Δ9-THC per 5g	1.09		mg/5g	0.166	
exo-THC per 5g <sup>†</sup>	< LOQ		mg/5g	0.166	
THC-A per 5g	< LOQ		mg/5g	0.166	
THC-Total per 5g	1.09		mg/5g	0.312	
THCV per 5g <sup>†</sup>	< LOQ		mg/5g	0.166	
THCV-A per 5g <sup>†</sup>	< LOQ		mg/5g	0.166	
THCV-Total per 5g <sup>†</sup>	< LOQ		mg/5g	0.312	
Total Cannabinoids per 5g	112		mg/5g		



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These test results are representative of the individual sample selected and submitted by the client.

**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.

† = Analyte not NELAP accredited.

**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



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Hemp / Cannabis Usable / Extract / Finished Products  
Chain of Custody Record

Revision: 4.00 Control#: CF023 Rev 02/24/2021 Eff: 03/04/2021  
ORELAP ID: OR100028

CHAIN OF CUSTODY				Analysis Requested										PO Number: _____				
Company: Healthy Roots Contact: Liz Merritt Address: 14325 NE Airport Way, #113 Portland, OR 97230 Email: Healthyrootshemp@gmail.com Phone: 503-496-2329 License: AG-L 1052211FP				Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Aerobic Plate Count, Salmonella, Staphylococcus, Pseudomonas	Sample Type †	Weight (Units)	Comments/Metric ID	
Lab ID	Client Sample Identification	Date	Time															
	#193, Travel Root Butter 2/9					✓									T	5g		
Billing (if different): * Please add: Compliance @ Healthyrootshemp.com																		
Relinquished By: Melton				Received By: DS								Lab Use Only:						
Date: 2/9/22				Date: 2/9/22								Shipped Via: _____ or Client drop						
Time: 2:00p				Time: 15:21								Evidence of cooling: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No - Temp (°C): 21.6°C						
												Sample in good condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
												Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: _____						
												Prelog storage: _____						

† - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)  
Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms  
12423 NE Whitaker Way  
Portland, OR 97230  
P: (503) 254-1794 | Fax: (503) 254-1452  
info@columbiaboratories.com  
Page \_\_\_\_\_ of \_\_\_\_\_  
www.columbiaboratories.com



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Revision: 1 Document ID: 7148  
Legacy ID: Worksheet Validated 04/20/2021

#### Laboratory Quality Control Results

J AOAC 2015 V98-6				Batch ID: 2201220					
Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDVA	0.00901	0.0100	%	90.1	85.0	- 115	Acceptable		
CBDV	0.0109	0.0100	%	109	85.0	- 115	Acceptable		
CBE	0.00882	0.0100	%	88.0	85.0	- 115	Acceptable		
CBDA	0.00974	0.0100	%	97.4	85.0	- 115	Acceptable		
CBGA	0.00909	0.0100	%	90.9	85.0	- 115	Acceptable		
CBG	0.00932	0.0100	%	93.2	85.0	- 115	Acceptable		
CBD	0.00991	0.0100	%	99.1	85.0	- 115	Acceptable		
THCV	0.00925	0.0100	%	92.5	85.0	- 115	Acceptable		
d8THCV	0.00893	0.00987	%	90.5	85.0	- 115	Acceptable		
THCVA	0.00863	0.0100	%	86.3	85.0	- 115	Acceptable		
CBN	0.0100	0.0100	%	100	85.0	- 115	Acceptable		
exo-THC	0.00828	0.00942	%	88.0	85.0	- 115	Acceptable		
d9THC	0.00957	0.0100	%	95.7	85.0	- 115	Acceptable		
d8THC	0.00970	0.0100	%	97.0	85.0	- 115	Acceptable		
CBL	0.00859	0.0100	%	85.9	85.0	- 115	Acceptable		
CBC	0.00945	0.0100	%	94.5	85.0	- 115	Acceptable		
THCA	0.00914	0.0100	%	91.4	85.0	- 115	Acceptable		
CBCA	0.00955	0.0100	%	95.5	85.0	- 115	Acceptable		
CBLA	0.00896	0.0100	%	89.4	85.0	- 115	Acceptable		
CBT	0.00860	0.00973	%	88.3	85.0	- 115	Acceptable		

#### Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes	
CBDVA	<LOQ	0.003	%	< 0.003	Acceptable		
CBDV	<LOQ	0.003	%	< 0.003	Acceptable		
CBE	<LOQ	0.003	%	< 0.003	Acceptable		
CBDA	<LOQ	0.003	%	< 0.003	Acceptable		
CBGA	<LOQ	0.003	%	< 0.003	Acceptable		
CBG	<LOQ	0.003	%	< 0.003	Acceptable		
CBD	<LOQ	0.003	%	< 0.003	Acceptable		
THCV	<LOQ	0.003	%	< 0.003	Acceptable		
d8THCV	<LOQ	0.003	%	< 0.003	Acceptable		
THCVA	<LOQ	0.003	%	< 0.003	Acceptable		
CBN	<LOQ	0.003	%	< 0.003	Acceptable		
exo-THC	<LOQ	0.003	%	< 0.003	Acceptable		
d9THC	<LOQ	0.003	%	< 0.003	Acceptable		
d8THC	<LOQ	0.003	%	< 0.003	Acceptable		
CBL	<LOQ	0.003	%	< 0.003	Acceptable		
CBC	<LOQ	0.003	%	< 0.003	Acceptable		
THCA	<LOQ	0.003	%	< 0.003	Acceptable		
CBCA	<LOQ	0.003	%	< 0.003	Acceptable		
CBLA	<LOQ	0.003	%	< 0.003	Acceptable		
CBT	<LOQ	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



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Revision: 1 Document ID: 7148  
Legacy ID: Worksheet Validated 04/20/2021

**Laboratory Quality Control Results**

J AOAC 2015 V98-6								
Batch ID: 2201220								
Sample Duplicate								
Sample ID: 22-001483-0001								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.00665	0.00682	0.003	%	2.66	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	<LOQ	0.00351	0.003	%	NA	< 20	Acceptable	
CBGA	0.00720	0.00731	0.003	%	1.46	< 20	Acceptable	
CBG	0.0160	0.0165	0.003	%	3.23	< 20	Acceptable	
CBD	0.967	0.966	0.003	%	0.0948	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.0790	0.0799	0.003	%	1.16	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0275	0.0298	0.003	%	8.15	< 20	Acceptable	
THCA	0.731	0.738	0.003	%	0.964	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.0370	0.0354	0.003	%	4.57	< 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.