



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



**Report Number:** 21-012723/D001.R000  
**Report Date:** 11/02/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 14:30

**Customer:** Healthy Roots  
**Product identity:** #173 Travel Root Butter  
**Client/Metric ID:** .  
**Laboratory ID:** 21-012723-0001

### Summary

#### Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 5g	104 mg/5g
CBC	0.0228		%			
CBD	2.08		%			
CBDV†	0.00957		%		THC-Total per 5g	1.67 mg/5g
CBE†	0.00999		%		(Reported in milligrams per serving)	
CBG†	0.00830		%			
CBT†	0.0317		%			
Δ9-THC	0.0334		%			
Analyte per 5g	Result	Limits	Units	Status		
CBC per 5g†	1.14		mg/5g			
CBD per 5g	104		mg/5g			
CBDV per 5g†	0.479		mg/5g			
CBE per 5g†	0.500		mg/5g			
CBG per 5g†	0.415		mg/5g			
CBT per 5g†	1.59		mg/5g			
Δ9-THC per 5g	1.67		mg/5g			



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



**Report Number:** 21-012723/D001.R000  
**Report Date:** 11/02/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 14:30

**Customer:** Healthy Roots  
**Product identity:** #173 Travel Root Butter  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 21-012723-0001  
**Evidence of Cooling:** No  
**Temp:** 24.3 °C  
**Relinquished by:** Client  
**Serving Size #1:** 5 g

### Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2109834	Analyze: 10/29/21 4:07:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0228		%	0.0033	
CBC-A†	< LOQ		%	0.0033	
CBC-Total†	0.0228		%	0.0062	
CBD	2.08		%	0.0329	
CBD-A	< LOQ		%	0.0033	
CBD-Total	2.08		%	0.0358	
CBDV†	0.00957		%	0.0033	
CBDV-A†	< LOQ		%	0.0033	
CBDV-Total†	0.00957		%	0.0061	
CBE†	0.00999		%	0.0033	
CBG†	0.00830		%	0.0033	
CBG-A†	< LOQ		%	0.0033	
CBG-Total	0.00830		%	0.0061	
CBL†	< LOQ		%	0.0033	
CBL-A†	< LOQ		%	0.0033	
CBL-Total†	< LOQ		%	0.0062	
CBN	< LOQ		%	0.0033	
CBT†	0.0317		%	0.0033	
Δ8-THCV	< LOQ		%	0.0033	
Δ8-THC†	< LOQ		%	0.0033	
Δ9-THC	0.0334		%	0.0033	
THC-A	< LOQ		%	0.0033	
THC-Total	0.0334		%	0.0062	
THCV†	< LOQ		%	0.0033	
THCV-A†	< LOQ		%	0.0033	
THCV-Total†	< LOQ		%	0.0061	
<b>Total Cannabinoids†</b>	<b>2.20</b>		%		

Potency per 5g		Method J AOAC 2015 V98-6 (mod)Units mg/se		Batch: 2109834	Analyze: 10/29/21 4:07:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 5g†	1.14		mg/5g	0.165	
CBC-A per 5g†	< LOQ		mg/5g	0.165	
CBC-Total per 5g†	1.14		mg/5g	0.309	



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



**Report Number:** 21-012723/D001.R000  
**Report Date:** 11/02/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 14:30

Potency per 5g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2109834 Analyze: 10/29/21 4:07:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 5g	104		mg/5g	1.65	
CBD-A per 5g	< LOQ		mg/5g	0.165	
CBD-Total per 5g	104		mg/5g	1.79	
CBDV per 5g <sup>†</sup>	0.479		mg/5g	0.165	
CBDV-A per 5g <sup>†</sup>	< LOQ		mg/5g	0.165	
CBDV-Total per 5g <sup>†</sup>	0.479		mg/5g	0.307	
CBE per 5g <sup>†</sup>	0.500		mg/5g	0.165	
CBG per 5g <sup>†</sup>	0.415		mg/5g	0.165	
CBG-A per 5g <sup>†</sup>	< LOQ		mg/5g	0.165	
CBG-Total per 5g <sup>†</sup>	0.415		mg/5g	0.307	
CBL per 5g <sup>†</sup>	< LOQ		mg/5g	0.165	
CBL-A per 5g <sup>†</sup>	< LOQ		mg/5g	0.165	
CBL-Total per 5g <sup>†</sup>	< LOQ		mg/5g	0.309	
CBN per 5g	< LOQ		mg/5g	0.165	
CBT per 5g <sup>†</sup>	1.59		mg/5g	0.165	
Δ8-THCV per 5g <sup>†</sup>	< LOQ		mg/5g	0.165	
Δ8-THC per 5g <sup>†</sup>	< LOQ		mg/5g	0.165	
Δ9-THC per 5g	1.67		mg/5g	0.165	
exo-THC per 5g <sup>†</sup>	< LOQ		mg/5g	0.165	
THC-A per 5g	< LOQ		mg/5g	0.165	
THC-Total per 5g	1.67		mg/5g	0.309	
THCV per 5g <sup>†</sup>	< LOQ		mg/5g	0.165	
THCV-A per 5g <sup>†</sup>	< LOQ		mg/5g	0.165	
THCV-Total per 5g <sup>†</sup>	< LOQ		mg/5g	0.309	
Total Cannabinoids per 5g	110		mg/5g		



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



**Report Number:** 21-012723/D001.R000  
**Report Date:** 11/02/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 14:30

#### **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 =  $\mu\text{g/g}$  divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



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



Report Number: 21-012723/D001.R000  
Report Date: 11/02/2021  
ORELAP#: OR100028  
Purchase Order:  
Received: 10/14/21 14:30



### 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

<b>Company:</b> CHAIN OF CUSTODY 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				<b>Analysis Requested</b>										<b>PO Number:</b> <b>Project Number:</b> <b>Project Name:</b> <b>Custom Reporting:</b> <b>Report to State:</b> <input type="checkbox"/> METRC or <input type="checkbox"/> Other: <b>Turnaround time:</b> <input checked="" type="checkbox"/> 5 Business Day Standard Turnaround <input type="checkbox"/> 3 Business Day Rush Turnaround* <input checked="" type="checkbox"/> 2 Business Day Rush Turnaround* <small>*Check for availability</small> <b>Sampled by:</b> <i>PG only charge standard</i>			
<b>Lab ID</b>	<b>Client Sample Identification</b>	<b>Date</b>	<b>Time</b>	<b>Pesticides - OR 59 compounds</b>	<b>Pesticide Multi-Residue - 379 compounds</b>	<b>Potency</b>	<b>Residual Solvents</b>	<b>Moisture &amp; Water Activity</b>	<b>Terpenes</b>	<b>Micro: Yeast and Mold</b>	<b>Micro: E. Coli and Total Coliform</b>	<b>Heavy Metals</b>	<b>Mycotoxins</b>	<b>Aerobic Plate Count, Salmonella, Staphylococcus, Pseudomonas</b>	<b>Sample Type †</b>	<b>Weight (Units)</b>	<b>Comments/Metric ID</b>
	#173 Travel Root Butter	10/14/21				X									T	S	<i>* already repred on another job. - PG</i>  Report in mg/gr and % (percentage)
	#4 Watermelon					X									E	7.3	
	#4 Blue Raspberry					X									E	7.4	
	#4 Tropical Punch					X									E	7.3	
	#4 Orange Mango					X									E	7.7	
<b>Relinquished By:</b> <i>[Signature]</i>				<b>Date:</b> 10/14/21	<b>Time:</b> 2:30 PM	<b>Received By:</b> <i>BD</i>				<b>Date:</b> 10/14/21	<b>Time:</b> 14:30	<b>Lab Use Only:</b> <input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <i>24.3</i> Sample in good condition: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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@columbialaboratories.com  
Page \_\_\_\_\_ of \_\_\_\_\_  
www.columbialaboratories.com



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



**Report Number:** 21-012723/D001.R000  
**Report Date:** 11/02/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 14:30

Revision #: 0.00 Control : CFL-D06  
Revision Date: 05/31/2019 Effective Date: 05/31/2019

#### Laboratory Quality Control Results

JAOAC2015 V98-6

Batch ID: 2109834

#### Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.00989	0.01	%	98.9	85.0 - 115	Acceptable	
CBDV	0.0105	0.01	%	105	85.0 - 115	Acceptable	
CBE	0.00999	0.01	%	99.9	85.0 - 115	Acceptable	
CBD A	0.00990	0.01	%	99.0	85.0 - 115	Acceptable	
CBGA	0.00963	0.01	%	96.3	85.0 - 115	Acceptable	
CBG	0.0104	0.01	%	104	85.0 - 115	Acceptable	
CBD	0.0102	0.01	%	102	85.0 - 115	Acceptable	
THCV	0.0103	0.01	%	103	85.0 - 115	Acceptable	
d8THCV	0.00984	0.01	%	98.4	85.0 - 115	Acceptable	
THCVA	0.00935	0.01	%	93.5	85.0 - 115	Acceptable	
CBN	0.0102	0.01	%	102	85.0 - 115	Acceptable	
exo-THC	0.00939	0.01	%	93.9	85.0 - 115	Acceptable	
d9THC	0.0101	0.01	%	101	85.0 - 115	Acceptable	
d8THC	0.0103	0.01	%	103	85.0 - 115	Acceptable	
CBL	0.00904	0.01	%	90.4	85.0 - 115	Acceptable	
CBC	0.0105	0.01	%	105	85.0 - 115	Acceptable	
THCA	0.00990	0.01	%	99.0	85.0 - 115	Acceptable	
CBGA	0.00987	0.01	%	98.7	85.0 - 115	Acceptable	
CBLA	0.0104	0.01	%	104	85.0 - 115	Acceptable	
CBT	0.0108	0.01	%	108	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	
CBD A	<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	
CBGA	<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



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



**Report Number:** 21-012723/D001.R000  
**Report Date:** 11/02/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 14:30

Revision #: 0.00 Control : CFL-D06  
Revision Date: 05/31/2019 Effective Date: 05/31/2019

#### Laboratory Quality Control Results

JAOAC2015 V98-6								
Batch ID: 2109834								
Sample Duplicate								
Sample ID: 21-004636-0003								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0160	0.0164	0.003	%	2.31	< 20	Acceptable	
CBE	0.0184	0.0190	0.003	%	3.20	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	5.10	5.15	0.003	%	0.829	< 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	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	

#### Abbreviations

ND - None Detected at or above MRL  
RPD - Relative Percent Difference  
LOQ - Limit of Quantitation  
NA - Calculation Not Applicable given non-numerical results

#### Units of Measure:

%- Percent



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



**Report Number:** 21-012723/D001.R000  
**Report Date:** 11/02/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 14:30

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.