



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



**Report Number:** 20-003402/D02.R00  
**Report Date:** 04/01/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/27/20 13:15

**Customer:** Healthy Roots  
**Product identity:** Travel Root Butter #67  
**Client/Metric ID:** .  
**Laboratory ID:** 20-003402-0001

## Summary

### Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 5g	93.7 mg/5g
CBC	0.0151		%			
CBC-A†	0.0364		%			
CBD	1.33		%		THC-Total per 5g	1.60 mg/5g
CBD-A	0.619		%		(Reported in milligrams per serving)	
CBDV†	0.00554		%			
CBDV-A†	0.00357		%			
CBG†	0.00836		%			
CBG-A†	0.0258		%			
Δ9-THC	0.0209		%			
THC-A	0.0127		%			
Analyte per 5g	Result	Limits	Units	Status		
CBC per 5g	0.755		mg/5g			
CBC-A per 5g	1.82		mg/5g			
CBD per 5g	66.5		mg/5g			
CBD-A per 5g	31.0		mg/5g			
CBDV per 5g	0.277		mg/5g			
CBDV-A per 5g	0.179		mg/5g			
CBG per 5g	0.418		mg/5g			
CBG-A per 5g	1.29		mg/5g			
Δ9-THC per 5g	1.05		mg/5g			
THC-A per 5g	0.635		mg/5g			



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**Product identity:** Travel Root Butter #67

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 20-003402-0001

**Relinquished by:** Jason

**Temp:** 25.9 °C

**Serving Size #1:** 5 g

## Sample Results

Potency	Method J AOAC 2015 V98-6		Batch: 2002880	Analyze: 1/1/70 12:00:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0151		%	0.0032	
CBC-A†	0.0364		%	0.0032	
CBC-Total†	0.0470		%	0.0061	
CBD	1.33		%	0.0323	
CBD-A	0.619		%	0.0032	
CBD-Total	1.87		%	0.0352	
CBDV†	0.00554		%	0.0032	
CBDV-A†	0.00357		%	0.0032	
CBDV-Total†	0.00863		%	0.0060	
CBG†	0.00836		%	0.0032	
CBG-A†	0.0258		%	0.0032	
CBG-Total	0.0310		%	0.0060	
CBL†	< LOQ		%	0.0032	
CBN	< LOQ		%	0.0032	
Δ8-THC†	< LOQ		%	0.0032	
Δ9-THC	0.0209		%	0.0032	
THC-A	0.0127		%	0.0032	
THC-Total	0.0320		%	0.0061	
THCV†	< LOQ		%	0.0032	
THCV-A†	< LOQ		%	0.0032	
THCV-Total†	< LOQ		%	0.0060	
Total Cannabinoids†	2.08		%		

Potency per 5g	Method J AOAC 2015 V98-6		Batch: 2002880		Analyze: 1/1/70 12:00:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 5g	0.755		mg/5g	0.162	
CBC-A per 5g	1.82		mg/5g	0.162	
CBC-Total per 5g	2.35		mg/5g	0.303	
CBD per 5g	66.5		mg/5g	1.62	
CBD-A per 5g	31.0		mg/5g	0.162	
CBD-Total per 5g	93.7		mg/5g	1.76	



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Potency per 5g		Method J AOAC 2015 V98-6	Batch: 2002880	Analyze: 1/1/70 12:00:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBDV per 5g	0.277		mg/5g	0.162	
CBDV-A per 5g	0.179		mg/5g	0.162	
CBDV-Total per 5g	0.432		mg/5g	0.302	
CBG per 5g	0.418		mg/5g	0.162	
CBG-A per 5g	1.29		mg/5g	0.162	
CBG-Total per 5g	1.54		mg/5g	0.302	
CBL per 5g	< LOQ		mg/5g	0.162	
CBN per 5g	< LOQ		mg/5g	0.162	
Δ8- THC per 5g	< LOQ		mg/5g	0.162	
Δ9- THC per 5g	1.05		mg/5g	0.162	
THC-A per 5g	0.635		mg/5g	0.162	
THC-Total per 5g	1.60		mg/5g	0.303	
THCV per 5g	< LOQ		mg/5g	0.162	
THCV-A per 5g	< LOQ		mg/5g	0.162	
THCV-Total per 5g	< LOQ		mg/5g	0.303	
<b>Total Cannabinoids 5g<sup>†</sup></b>	<b>104</b>		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

**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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12423 NE

id OR 97230 p.503-254-1794

### Cannabis Chain of Custody Record

20-003402

ORELAP ID: OR100028

Company: Healthy Roots Contact: Liz Merritt Address: 14325 NE Airport Way #113 City, State: Portland, OR 97230 Email: HealthyRootsChemp@gmail.com Phone: 503-466-2329 License: AG-11052211FP		Analysis Requested												Purchase Order Number: Project Number: Project Name:			
CHAIN OF CUSTODY		Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Sample Type	Weight	Serving size for edibles	Com
Client Sample																	
Travel Root Butter #167				✓											5g		
Lecithin Butter #169				✓											88.5		

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
Turnaround time: Ask for availability <input type="checkbox"/> Standard (5 day) <input type="checkbox"/> Rush (3-4 day) (1.5x Standard) <input type="checkbox"/> Priority Rush (2 day) (2x Standard)	Lason	3/27/20		Jmv	3/27/20	13:15	Client Alias: Order Number: Proper Container: Sample Condition: Temperature: 25.9 Shipped Via: Evidence of cooling: FNo

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Revision: 3.00 Control#: CF023

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Effective 05/22/2019 Revised 05/22/2019

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

#### Laboratory Quality Control Results

J AOAC 2015 V98-6

Batch ID: 2002880

#### Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.00981	0.01	%	98.1	85.0 - 115	Acceptable	
CBDV	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBD-A	0.00951	0.01	%	95.1	85.0 - 115	Acceptable	
CBG-A	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBG	0.00942	0.01	%	94.2	85.0 - 115	Acceptable	
CBD	0.00938	0.01	%	93.8	85.0 - 115	Acceptable	
THCV	0.0101	0.01	%	101	85.0 - 115	Acceptable	
THCVA	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBN	0.00919	0.01	%	91.9	85.0 - 115	Acceptable	
THC	0.0104	0.01	%	104	85.0 - 115	Acceptable	
D8THC	0.00927	0.01	%	92.7	85.0 - 115	Acceptable	
CBL	0.0100	0.01	%	100	85.0 - 115	Acceptable	
CBC	0.0100	0.01	%	100	85.0 - 115	Acceptable	
THCA	0.00932	0.01	%	93.2	85.0 - 115	Acceptable	
CBCA	0.00987	0.01	%	98.7	85.0 - 115	Acceptable	

#### Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	<LOQ	0.003	%	< 0.003	Acceptable	
CBDV	<LOQ	0.003	%	< 0.003	Acceptable	
CBD-A	<LOQ	0.003	%	< 0.003	Acceptable	
CBG-A	<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	
THCVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
THC	<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	

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

#### Laboratory Quality Control Results

J AOAC 2015 V98-6				Batch ID: 2002880				
Sample Duplicate				Sample ID: 20-003305-0001				
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0444	0.0450	0.003	%	1.33	< 20	Acceptable	
CBD-A	0.00566	0.00566	0.003	%	0.0535	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.190	0.190	0.003	%	0.0591	< 20	Acceptable	
CBD	4.79	4.83	0.003	%	0.946	< 20	Acceptable	
THCV	0.0112	0.0106	0.003	%	5.13	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THC	0.212	0.212	0.003	%	0.0426	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	0.00428	0.00505	0.003	%	16	< 20	Acceptable	
CBC	0.270	0.271	0.003	%	0.235	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<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



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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.