



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



Report Number: 20-007870/D03.R00
Report Date: 07/31/2020
ORELAP#: OR100028
Purchase Order:
Received: 07/28/20 13:29

Customer: Healthy Roots
Product identity: #0097 Travel Root Butter
Client/Metric ID: .
Laboratory ID: 20-007870-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBC	0.0127		%		CBD-Total per 5g 97.7 mg/5g
CBC-A†	0.0386		%		
CBD	1.33		%		THC-Total per 5g 1.55 mg/5g
CBD-A	0.711		%		
CBDV†	0.00475		%		(Reported in milligrams per serving)
CBDV-A†	0.00474		%		
CBG†	0.0101		%		
CBG-A†	0.0304		%		
Δ9-THC	0.0165		%		
THC-A	0.0165		%		
Analyte per 5g	Result	Limits	Units	Status	
CBC per 5g	0.635		mg/5g		
CBC-A per 5g	1.93		mg/5g		
CBD per 5g	66.5		mg/5g		
CBD-A per 5g	35.6		mg/5g		
CBDV per 5g	0.238		mg/5g		
CBDV-A per 5g	0.237		mg/5g		
CBG per 5g	0.505		mg/5g		
CBG-A per 5g	1.52		mg/5g		
Δ9-THC per 5g	0.825		mg/5g		
THC-A per 5g	0.825		mg/5g		



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Customer: Healthy Roots

Product identity: #0097 Travel Root Butter

Client/Metric ID: .

Sample Date:

Laboratory ID: 20-007870-0001

Evidence of Cooling: No

Temp: 28 °C

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)		Batch: 2006265	Analyze: 7/30/20 1:59:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0127		%	0.0032	
CBC-A [†]	0.0386		%	0.0032	
CBC-Total [†]	0.0466		%	0.0061	
CBD	1.33		%	0.0325	
CBD-A	0.711		%	0.0032	
CBD-Total	1.95		%	0.0353	
CBDV [†]	0.00475		%	0.0032	
CBDV-A [†]	0.00474		%	0.0032	
CBDV-Total [†]	0.00886		%	0.0061	
CBG [†]	0.0101		%	0.0032	
CBG-A [†]	0.0304		%	0.0032	
CBG-Total	0.0368		%	0.0061	
CBL [†]	< LOQ		%	0.0032	
CBN	< LOQ		%	0.0032	
Δ8-THC [†]	< LOQ		%	0.0032	
Δ9-THC	0.0165		%	0.0032	
THC-A	0.0165		%	0.0032	
THC-Total	0.0310		%	0.0061	
THCV [†]	< LOQ		%	0.0032	
THCV-A [†]	< LOQ		%	0.0032	
THCV-Total [†]	< LOQ		%	0.0061	
Total Cannabinoids[†]	2.18		%		

Potency per 5g	Method J AOAC 2015 V98-6 (mod)		Batch: 2006265	Analyze: 7/30/20 1:59:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 5g	0.635		mg/5g	0.162	
CBC-A per 5g	1.93		mg/5g	0.162	
CBC-Total per 5g	2.33		mg/5g	0.305	
CBD per 5g	66.5		mg/5g	1.62	
CBD-A per 5g	35.6		mg/5g	0.162	
CBD-Total per 5g	97.7		mg/5g	1.77	
CBDV per 5g	0.238		mg/5g	0.162	
CBDV-A per 5g	0.237		mg/5g	0.162	
CBDV-Total per 5g	0.443		mg/5g	0.303	



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Potency per 5g					
Method J AOAC 2015 V98-6 (mod) Batch: 2006265 Analyze: 7/30/20 1:59:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBG per 5g	0.505		mg/5g	0.162	
CBG-A per 5g	1.52		mg/5g	0.162	
CBG-Total per 5g	1.82		mg/5g	0.303	
CBL per 5g	< LOQ		mg/5g	0.162	
CBN per 5g	< LOQ		mg/5g	0.162	
Δ 8-THC per 5g	< LOQ		mg/5g	0.162	
Δ 9-THC per 5g	0.825		mg/5g	0.162	
THC-A per 5g	0.825		mg/5g	0.162	
THC-Total per 5g	1.55		mg/5g	0.305	
THCV per 5g	< LOQ		mg/5g	0.162	
THCV-A per 5g	< LOQ		mg/5g	0.162	
THCV-Total per 5g	< LOQ		mg/5g	0.305	
Total Cannabinoids 5g[†]	109		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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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: 2006265										
Laboratory Control Sample										
Analyte	Result		Spike	Units	% Rec	Limits			Evaluation	Notes
CBDV-A	0.00993		0.01	%	99.3	85.0 - 115			Acceptable	
CBDV	0.0100		0.01	%	100	85.0 - 115			Acceptable	
CBD-A	0.0102		0.01	%	102	85.0 - 115			Acceptable	
CBG-A	0.00983		0.01	%	98.3	85.0 - 115			Acceptable	
CBG	0.00974		0.01	%	97.4	85.0 - 115			Acceptable	
CBD	0.0106		0.01	%	106	85.0 - 115			Acceptable	
THCV	0.00957		0.01	%	95.7	85.0 - 115			Acceptable	
THCVA	0.00992		0.01	%	99.2	85.0 - 115			Acceptable	
CBN	0.0100		0.01	%	100	85.0 - 115			Acceptable	
THC	0.0110		0.01	%	110	85.0 - 115			Acceptable	
D8THC	0.00862		0.01	%	86.2	85.0 - 115			Acceptable	
CBL	0.0103		0.01	%	103	85.0 - 115			Acceptable	
CBC	0.00966		0.01	%	96.6	85.0 - 115			Acceptable	
THCA	0.00935		0.01	%	93.5	85.0 - 115			Acceptable	
CBCA	0.00972		0.01	%	97.2	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: 2006265			
Sample Duplicate					Sample ID: 20-007732-0001			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0784	0.0788	0.003	%	0.524	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0501	0.0499	0.003	%	0.366	< 20	Acceptable	
CBD	18.5	19.7	0.003	%	5.84	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.120	0.120	0.003	%	0.101	< 20	Acceptable	
THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	0.00946	0.0107	0.003	%	13	< 20	Acceptable	
CBC	0.158	0.159	0.003	%	0.324	< 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.