



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



Report Number: 21-006412/D003.R000
Report Date: 06/16/2021
ORELAP#: OR100028
Purchase Order:
Received: 06/09/21 15:39

Customer: Healthy Roots
Product identity: #151 Travel Root Butter
Client/Metric ID: .
Laboratory ID: 21-006412-0001

Sample Date: 06/09/21 09:30

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 5g	106 mg/5g
CBC	0.0188		%			
CBC-A†	0.0300		%			
CBD	1.62		%		THC-Total per 5g	1.72 mg/5g
CBD-A	0.560		%			
CBDV†	0.00762		%			
CBE†	0.00696		%			
CBG-A†	0.0233		%			
Δ9-THC	0.0280		%			
THC-A	0.00729		%			
						(Reported in milligrams per serving)
Analyte per 5g	Result	Limits	Units	Status		
CBC per 5g†	0.940		mg/5g			
CBC-A per 5g†	1.50		mg/5g			
CBD per 5g	81.0		mg/5g			
CBD-A per 5g	28.0		mg/5g			
CBDV per 5g†	0.381		mg/5g			
CBG-A per 5g†	1.17		mg/5g			
Δ9-THC per 5g	1.40		mg/5g			
THC-A per 5g	0.365		mg/5g			



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Customer: Healthy Roots

Product identity: #151 Travel Root Butter
Client/Metric ID: .
Sample Date: 06/09/21 09:30
Laboratory ID: 21-006412-0001
Evidence of Cooling: No
Temp: 22.8 °C
Serving Size #1: 5 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2105167	Analyze: 6/11/21 5:44:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0188		%	0.0033	
CBC-A [†]	0.0300		%	0.0033	
CBC-Total [†]	0.0451		%	0.0062	
CBD	1.62		%	0.0330	
CBD-A	0.560		%	0.0033	
CBD-Total	2.11		%	0.0359	
CBDV [†]	0.00762		%	0.0033	
CBDV-A [†]	< LOQ		%	0.0033	
CBDV-Total [†]	0.00762		%	0.0062	
CBE [†]	0.00696		%	0.0033	
CBG [†]	< LOQ		%	0.0033	
CBG-A [†]	0.0233		%	0.0033	
CBG-Total	0.0205		%	0.0062	
CBL [†]	< LOQ		%	0.0033	
CBL-A [†]	< LOQ		%	0.0033	
CBL-Total [†]	< LOQ		%	0.0062	
CBN	< LOQ		%	0.0033	
CBT [†]	< LOQ		%	0.0033	
Δ8-THCV	< LOQ		%	0.0033	
Δ8-THC [†]	< LOQ		%	0.0033	
Δ9-THC	0.0280		%	0.0033	
THC-A	0.00729		%	0.0033	
THC-Total	0.0344		%	0.0062	
THCV [†]	< LOQ		%	0.0033	
THCV-A [†]	< LOQ		%	0.0033	
THCV-Total [†]	< LOQ		%	0.0062	
Total Cannabinoids[†]	2.30		%		

Potency per 5g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2105167	Analyze: 6/11/21 5:44:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 5g [†]	0.940		mg/5g	0.165	
CBC-A per 5g [†]	1.50		mg/5g	0.165	
CBC-Total per 5g [†]	2.26		mg/5g	0.310	



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Potency per 5g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2105167 Analyze: 6/11/21 5:44:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 5g	81.0		mg/5g	1.65	
CBD-A per 5g	28.0		mg/5g	0.165	
CBD-Total per 5g	106		mg/5g	1.80	
CBDV per 5g [†]	0.381		mg/5g	0.165	
CBDV-A per 5g [†]	< LOQ		mg/5g	0.165	
CBDV-Total per 5g [†]	0.381		mg/5g	0.308	
CBE per 5g [†]	< LOQ		mg/5g	8.25	
CBG per 5g [†]	< LOQ		mg/5g	0.165	
CBG-A per 5g [†]	1.17		mg/5g	0.165	
CBG-Total per 5g [†]	1.01		mg/5g	0.308	
CBL per 5g [†]	< LOQ		mg/5g	0.165	
CBL-A per 5g [†]	< LOQ		mg/5g	8.25	
CBL-Total per 5g [†]	< LOQ		mg/5g	15.5	
CBN per 5g	< LOQ		mg/5g	0.165	
CBT per 5g [†]	< LOQ		mg/5g	8.25	
Δ8-THCV per 5g [†]	< LOQ		mg/5g	8.25	
Δ8-THC per 5g [†]	< LOQ		mg/5g	0.165	
Δ9-THC per 5g	1.40		mg/5g	0.165	
exo-THC per 5g [†]	< LOQ		mg/5g	8.25	
THC-A per 5g	0.365		mg/5g	0.165	
THC-Total per 5g	1.72		mg/5g	0.310	
THCV per 5g [†]	< LOQ		mg/5g	0.165	
THCV-A per 5g [†]	< LOQ		mg/5g	0.165	
THCV-Total per 5g [†]	< LOQ		mg/5g	0.310	
Total Cannabinoids per 5g	115		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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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

21000412

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 Other:												Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input type="checkbox"/> 5 Business Day Standard Turnaround <input checked="" type="checkbox"/> 3 Business Day Rush Turnaround* <input type="checkbox"/> 2 Business Day Rush Turnaround* *Check for availability		
Lab ID	Client Sample Identification	Date	Time													Sample Type †	Weight (Units)	Comments/Metric ID
1	#151, Travel root butter	6/9/21														T	5 gr	100mg per Gram is our target Report in mg/gr and % (percentage)
2	#149a, Num Numb	6/9/21														T	1 gr	
3	#FSD 06.09.21 Nick	6/9/21														C	1 gr	
Relinquished By: Merritt				Date: 6/9/21	Received By: [Signature]				Date: 6/9/21	Time: 1539				Lab Use Only: <input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input type="checkbox"/> No - Temp (°C): 22.8 Sample in good condition: <input type="checkbox"/> Yes <input 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
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Revision #: 0.00 Control : CFL-D06
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

JAOAC2015 V986

Batch ID: 2105167

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.00961	0.01	%	96.1	85.0 - 115	Acceptable	
CBDV	0.0104	0.01	%	104	85.0 - 115	Acceptable	
CBE	0.00941	0.01	%	94.1	85.0 - 115	Acceptable	
CBDA	0.00986	0.01	%	98.6	85.0 - 115	Acceptable	
CBGA	0.00970	0.01	%	97.0	85.0 - 115	Acceptable	
CBG	0.00989	0.01	%	98.9	85.0 - 115	Acceptable	
CBD	0.00983	0.01	%	98.3	85.0 - 115	Acceptable	
THCV	0.0100	0.01	%	100	85.0 - 115	Acceptable	
d8THCV	0.00954	0.01	%	95.4	85.0 - 115	Acceptable	
THCVA	0.00940	0.01	%	94.0	85.0 - 115	Acceptable	
CBN	0.0102	0.01	%	102	85.0 - 115	Acceptable	
exo-THC	0.00933	0.01	%	93.3	85.0 - 115	Acceptable	
d9THC	0.0103	0.01	%	103	85.0 - 115	Acceptable	
d8THC	0.00967	0.01	%	96.7	85.0 - 115	Acceptable	
CBL	0.00875	0.01	%	87.5	85.0 - 115	Acceptable	
CBC	0.0103	0.01	%	103	85.0 - 115	Acceptable	
THCA	0.00954	0.01	%	95.4	85.0 - 115	Acceptable	
CBCA	0.00945	0.01	%	94.5	85.0 - 115	Acceptable	
CBLA	0.00977	0.01	%	97.7	85.0 - 115	Acceptable	
CBT	0.0103	0.01	%	103	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 #: 0.00 Control : CFL-D06
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

JAOAC2015 V986				Batch ID: 2105167				
Sample Duplicate				Sample ID: 21-006360-0001				
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0823	0.0837	0.003	%	1.70	< 20	Acceptable	
CBE	0.165	0.163	0.003	%	1.43	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0579	0.0572	0.003	%	1.36	< 20	Acceptable	
CBD	9.54	8.80	0.003	%	8.08	< 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	0.111	0.112	0.003	%	0.408	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.00916	0.00916	0.003	%	0.0145	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	0.00803	0.00816	0.003	%	1.56	< 20	Acceptable	
CBC	0.148	0.150	0.003	%	1.01	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.150	0.146	0.003	%	2.77	< 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.