



Report Number:	19-013324/D02.R00
Report Date:	11/07/2019
ORELAP#:	OR100028
Purchase Order:	
Received:	10/31/19 15:55

Customer:	Healthy Roots
Product identity:	0018.022719
Client/Metrc ID:	
Laboratory ID:	19-013324-0002

# Summary

Analyte per 28g	Result Lim	ts Units	Status	CBD-Total per 28g	550 mg/28g
CBC per 28g <sup>†</sup>	73.4	mg/28g			
CBD per 28g	549	mg/28g		THC-Total per 28g	45.9 mg/28g
CBD-A per 28g	1.33	mg/28g			
CBDV per 28g <sup>†</sup>	2.05	mg/28g		(Reported in millig	rams per serving)
CBG per 28g <sup>†</sup>	8.37	mg/28g			
CBN per 28g	3.05	mg/28g			
∆9-THC per 28g	45.9	mg/28g			
THCV per 28g <sup>†</sup>	14.1	mg/28g			





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Customer:	Healthy Roots
Product identity:	0018.022719
Client/Metrc ID:	
Sample Date:	
Laboratory ID:	19-013324-0002
Temp:	20.9 °C
Relinquished by:	Liz Merritt
Serving Size #1:	28 g

# **Sample Results**

Potency per 28g			Batch: 1910	)173			
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 28g <sup>†</sup>	73.4		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBC-A per 28g <sup>†</sup>	< LOQ		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBC-Total per 28g <sup>†</sup>	73.4		mg/28g	1.75	11/07/19	J AOAC 2015 V98-6	
CBD per 28g	549		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBD-A per 28g	1.33		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBD-Total per 28g	550		mg/28g	1.75	11/07/19	J AOAC 2015 V98-6	
CBDV per 28g <sup>†</sup>	2.05		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBDV-A per 28g <sup>†</sup>	< LOQ		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBDV-Total per 28g <sup>†</sup>	2.05		mg/28g	1.74	11/07/19	J AOAC 2015 V98-6	
CBG per 28g <sup>†</sup>	8.37		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBG-A per 28g <sup>†</sup>	< LOQ		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBG-Total per 28g <sup>†</sup>	8.37		mg/28g	1.75	11/07/19	J AOAC 2015 V98-6	
CBL per 28g <sup>†</sup>	< LOQ		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBN per 28g	3.05		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
∆8-THC per 28g⁺	< LOQ		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
∆9-THC per 28g	45.9		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
THC-A per 28g	< LOQ		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
THC-Total per 28g	45.9		mg/28g	1.75	11/07/19	J AOAC 2015 V98-6	
THCV per 28g <sup>†</sup>	14.1		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
THCV-A per 28g <sup>†</sup>	< LOQ		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
THCV-Total per 28g <sup>†</sup>	14.1		mg/28g	1.74	11/07/19	J AOAC 2015 V98-6	





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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.

<sup>†</sup> = Analyte not NELAP accredited.

# Units of Measure

g = Gram mg/28g = Milligram per 28g % = Percentage of sample % wt = μg/g divided by 10,000

Approved Signatory

Derrick Tanner General Manager

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Our Roots Run Doop										A	nalys	is Re	quest	ed					DR100028 :hase Order Number:
Cor Add Em; Lice					ds										ŀ	lealthy Rool	ts		ect Number:
CHAIN OF CUSTODY Company: Healthy Roots Contact: Liz Merritt Address: 14325 NE Airport Way, #113 Email: Healthyrootshemp@gmail.com Phone: 503-496-2329 License: AG-L 1052211FP	F	Fax:		– OR 59 compounds	ti-Residue – 379 compounds		nts				nd Mold	Micro: E. Coli and Total Coliform							Project Name: Report Instructions: Send to State - METRC Email Final Results: Cash/Check/CC/Net 30
Client Sample Identificatio	on C	Date/Ti Collect	ime ted	Pesticides – C	Pesticide Multi-Residue –	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E.Coli	Heavy Metals	Mycotoxins	Other	Sample Type	Weight	Serving size for edibles	Other: 5 Comments/Metrc ID
0020.022710	2					X										Tincture T	æ	2 ons	
0018-02271	3					X										Tincture	Ra	ion 3	
0027 (Root Bu	utter)					X										Jopcal	25g	×	
Collected By:	R	Relinqui	shed E	By:	,		Date		Time	5	Rece	eived by	/:			Date	e Ti		b Use Only:
Turnaround time: Ask for availability Standard (5 day) Rush (3-4 day) (1.5x Standard) Priority Rush (2 (2x Standard)		Y2	M	2200	2	-	1013	31/19			K	WC	}			10/3	1/19 3	SS Or Sa Sa Te Sh	ient Alias: rder Number: oper Container imple Condition emperature: 20 9 ipped Via: vidence of cooling: $\sqrt{N}$





 Report Number:
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 Report Date:
 11/07/2019

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

		Labor	atory (	Quality Cor	trol Results		
J AOAC 2015 \	/98-6		-				
Laboratory Cor	ntrol Sample						
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.00952	0.01	%	95.2	85 - 115	Acceptable	
CBDV	0.00958	0.01	%	95.8	85 - 115	Acceptable	
CBD-A	0.00939	0.01	%	93.9	85 - 115	Acceptable	
CBG-A	0.00962	0.01	%	96.2	85 - 115	Acceptable	
CBG	0.00960	0.01	%	96.0	85 - 115	Acceptable	
CBD	0.00968	0.01	%	96.8	85 - 115	Acceptable	
THCV	0.00959	0.01	%	95.9	85 - 115	Acceptable	
THCVA	0.00951	0.01	%	95.1	85 - 115	Acceptable	
CBN	0.00940	0.01	%	94.0	85 - 115	Acceptable	
THC	0.00944	0.01	%	94.4	85 - 115	Acceptable	
D8THC	0.00942	0.01	%	94.2	85 - 115	Acceptable	
CBL	0.00942	0.01	%	94.2	85 - 115	Acceptable	
CBC	0.0104	0.01	%	104	85 - 115	Acceptable	
THCA	0.00936	0.01	%	93.6	85 - 115	Acceptable	
CBCA	0.00956	0.01	%	95.6	85 - 115	Acceptable	

### Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	ND	0.003	%	< 0.003	Acceptable	
CBDV	ND	0.003	%	< 0.003	Acceptable	
CBD-A	ND	0.003	%	< 0.003	Acceptable	
CBG-A	ND	0.003	%	< 0.003	Acceptable	
CBG	ND	0.003	%	< 0.003	Acceptable	
CBD	ND	0.003	%	< 0.003	Acceptable	
THCV	ND	0.003	%	< 0.003	Acceptable	
THCVA	ND	0.003	%	< 0.003	Acceptable	
CBN	ND	0.003	%	< 0.003	Acceptable	
THC	ND	0.003	%	< 0.003	Acceptable	
D8THC	ND	0.003	%	< 0.003	Acceptable	
CBL	ND	0.003	%	< 0.003	Acceptable	
CBC	ND	0.003	%	< 0.003	Acceptable	
THCA	ND	0.003	%	< 0.003	Acceptable	
CBCA	ND	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

J AOAC 2015	V98-6				Bat	ch ID: 191017	3				
Sample Dupli	cate			Sample ID: 19-013317-0005							
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes			
CBDV-A	ND	ND	0.003	%	0	< 20	Acceptable				
CBDV	0.0129	0.0133	0.003	%	3.05	< 20	Acceptable				
CBD-A	ND	ND	0.003	%	0	< 20	Acceptable				
CBG-A	ND	ND	0.003	%	0	< 20	Acceptable				
CBG	0.00756	0.00764	0.003	%	1.05	< 20	Acceptable				
CBD	2.43	2.42	0.003	%	0	< 20	Acceptable				
THCV	ND	ND	0.003	%	0	< 20	Acceptable				
THCVA	ND	ND	0.003	%	0	< 20	Acceptable				
CBN	0.0118	0.0122	0.003	%	3.33	< 20	Acceptable				
THC	ND	ND	0.003	%	0	< 20	Acceptable				
D8THC	ND	ND	0.003	%	0	< 20	Acceptable				
CBL	ND	ND	0.003	%	0	< 20	Acceptable				
CBC	0.0424	0.0427	0.003	%	0.71	< 20	Acceptable				
THCA	ND	ND	0.003	%	0	< 20	Acceptable				
CBCA	ND	ND	0.003	%	0	< 20	Acceptable				

## Abbreviations

- ND None Detected at or above MRL
- RPD Relative Percent Difference
- LOQ Limit of Quantitation

# Units of Measure:

% - Percent

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Pixis quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

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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	Quantitaion level raised due to matrix interference.
В	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.