



**Report Number:** 20-010752/D03.R00

10/12/2020 Report Date: ORELAP#: OR100028

**Purchase Order:** 

Received: 10/05/20 16:17

**Customer:** Healthy Roots Product identity: #103v2 200 Pet

Client/Metrc ID:

**Laboratory ID:** 20-010752-0001

**Summary** 

Potericy.					<del></del>	
Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g	224 mg/28.5g
CBD	0.786		%			
Analyte per 28.5g	Result	Limits	Units	Status	THC-Total per 28.5g	<loq< th=""></loq<>
CBD per 28.5g	224		mg/28.5g		(Reported in millign	ams per serving)





**Report Number:** 20-010752/D03.R00

10/12/2020 Report Date: ORELAP#: OR100028

**Purchase Order:** 

10/05/20 16:17 Received:

**Customer:** Healthy Roots

Product identity: #103v2 200 Pet

Client/Metrc ID:

Sample Date:

Laboratory ID: 20-010752-0001

Relinquished by: Liz Merritt 25.7 °C Temp: Serving Size #1: 28.5 g Weight Received: 28.5 g

# **Sample Results**

Potency	Method J AOA	AC 2015 V98-6 (mod)	Batch: 2008390		<b>Analyze:</b> 10/9/20 1:24:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.0894	
CBC-A <sup>†</sup>	< LOQ		%	0.0894	
CBC-Total <sup>†</sup>	< LOQ		%	0.168	
CBD	0.786		%	0.0894	
CBD-A	< LOQ		%	0.0894	
CBD-Total	0.786		%	0.168	
CBDV <sup>†</sup>	< LOQ		%	0.0894	
CBDV-A <sup>†</sup>	< LOQ		%	0.0894	
CBDV-Total <sup>†</sup>	< LOQ		%	0.167	
CBG <sup>†</sup>	< LOQ		%	0.0894	
CBG-A <sup>†</sup>	< LOQ		%	0.0894	
CBG-Total	< LOQ		%	0.167	
CBL <sup>†</sup>	< LOQ		%	0.0894	
CBN	< LOQ		%	0.0894	
$\Delta 8$ -THC <sup>†</sup>	< LOQ		%	0.0894	
Δ9-THC	< LOQ		%	0.0894	
THC-A	< LOQ		%	0.0894	
THC-Total	< LOQ		%	0.168	
THCV <sup>†</sup>	< LOQ		%	0.0894	
THCV-A <sup>†</sup>	< LOQ		%	0.0894	
THCV-Total <sup>†</sup>	< LOQ		%	0.167	
Total Cannabinoids <sup>†</sup>	0.786		%		

Potency per 28.5g	Method J AOA	AC 2015 V98-6 (mod)	Batch: 200839	90	<b>Analyze:</b> 10/9/20 1:24:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g	< LOQ		mg/28.5g	25.5	
CBC-A per 28.5g	< LOQ		mg/28.5g	25.5	
CBC-Total per 28.5g	< LOQ		mg/28.5g	47.9	
CBD per 28.5g	224		mg/28.5g	25.5	
CBD-A per 28.5g	< LOQ		mg/28.5g	25.5	
CBD-Total per 28.5g	224		mg/28.5g	47.9	
CBDV per 28.5g	< LOQ		mg/28.5g	25.5	
					D 0 (0

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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 Columbia Laboratories 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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**Purchase Order:** 

10/05/20 16:17 Received:

Potency per 28.5g	<b>Method</b> J AOA	AC 2015 V98-6 (mod)	Batch: 2008390		<b>Analyze:</b> 10/9/20 1:24:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBDV-A per 28.5g	< LOQ		mg/28.5g	25.5	
CBDV-Total per 28.5g	< LOQ		mg/28.5g	47.6	
CBG per 28.5g	< LOQ		mg/28.5g	25.5	
CBG-A per 28.5g	< LOQ		mg/28.5g	25.5	
CBG-Total per 28.5g	< LOQ		mg/28.5g	47.6	
CBL per 28.5g	< LOQ		mg/28.5g	25.5	
CBN per 28.5g	< LOQ		mg/28.5g	25.5	
$\Delta 8$ -THC per 28.5g	< LOQ		mg/28.5g	25.5	
$\Delta$ 9-THC per 28.5g	< LOQ		mg/28.5g	25.5	
THC-A per 28.5g	< LOQ		mg/28.5g	25.5	
THC-Total per 28.5g	< LOQ		mg/28.5g	47.9	
THCV per 28.5g	< LOQ		mg/28.5g	25.5	
THCV-A per 28.5g	< LOQ		mg/28.5g	25.5	
THCV-Total per 28.5g	< LOQ		mg/28.5g	47.9	
Total Cannabinoids 28.5g <sup>†</sup>	224		mg/28.5g		





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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 = Grammg/28.5g = Milligram per 28.5g % = Percentage of sample % wt =  $\mu$ g/g divided by 10,000

Approved Signatory

**Derrick Tanner** General Manager





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**Report Date:** 10/12/2020 ORELAP#: OR100028

**Purchase Order:** 

Received: 10/05/20 16:17

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4	Compa Contact Address Email: F Phone: License:				spuno					6						1			Project Number:
Г	Company: He Contact: Liz N Address: 143 Address: 148 Phone: 503-4 License: AG-L				ompc														Project Name:
В	Company: Healthy Roots Contact: Liz Merritt Address: 14325 NE Airport Way, #113 Portland, OR 97230 Email: Healthyrootshemp@gmail.com Phone: 503-496-2329 Ucense: AG-L L052211FP Ucense: AG-L L052211FP Ucense: AG-L L052211F	CHAIN OF CUSTODY		es – OR 59 compounds	Pesticide Multi-Residue – 379 compounds		Residual Solvents	ctivity	a.		Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	etals	ns					□ Report Instructions: □ Send to State - METRC □ Email Final Results: □ Fax Final Results □ Cash/Check/CC/Net 30 Other:
CI	.co m #113	Date Colle	/Time ected	Pesticides	Pesticid	Potency	Residual	Water Activity	Moisture	Terpenes	Micro: Ye	Micro: E.	Heavy Metals	Mycotoxins	Other	Sample Type	Weight	Serving size for edibles	cc Healthy Roots
#	103v2 200 Pet				1		-		$\dashv$	$\dashv$			-	$\dashv$	$\dashv$		28,5g	r	%
-	0000													$\dashv$	$\dashv$				10 mm
1	-CCO2-Actual			-	$\neg$		-	_									lar		Report in mg/gr and (percentage
				-	-	$\dashv$	-	-	$\dashv$	$\dashv$	$\dashv$	-	_	_			0		ente d'gr
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Co	ollected By:	Relinqu	uished B	v:			Date	1	Time	_	Desert	- 11							
T	urnaround time: sk for availability	17	me	MI	1	15			415		receiv	red by:				Date	Tim	Clier	Use Only: nt Alias:
	Standard (5 day)					Ť	10/1		1-1	PIP	(					10.2	. 10	Orue	er Number: 75.7
	Rush (3-4 day) (1.5x Standard)									$\top$							_		ple Condition
	Priority Rush (2 day)				_	_										1	+	Tem	perature:
(	2x Standard)																		ped Via: ence of cooling:
SUE	BMISSION OF SAMPLES WITH TE	STING DE																	
vis	BMISSION OF SAMPLES WITH TE ion: 3.00 Control#: CF023_	JING KE	QUIKEIVII	ENIS IO	PIXIS V	VILL BE (	JNDERS'	TOOD T	O BE AN	W.pixis	MENT	FOR SEF	RVICES II	N ACCO	RDANCE	WITH THE	CONDITIONS	LISTED ON TH	E BACK OF THIS FORM
2C)	tive 05/22/2019 Revised 05/2	2/2019							www.				m						Page 1 of Z





20-010752/D03.R00 **Report Number:** 

**Report Date:** 10/12/2020 ORELAP#: OR100028

**Purchase Order:** 

Received: 10/05/20 16:17

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

# **Laboratory Quality Control Results**

J AOAC 2015	5 V98-6			Bat	ch ID: 2008352/	2008390	
Laboratory C	ontrol Sample						
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.199	0.2	%	99.7	85.0 - 115	Acceptable	
CBDV	0.216	0.2	%	108	85.0 - 115	Acceptable	
CBD-A	0.208	0.2	%	104	85.0 - 115	Acceptable	
CBG-A	0.195	0.2	%	97.5	85.0 - 115	Acceptable	
CBG	0.202	0.2	%	101	85.0 - 115	Acceptable	
CBD	0.206	0.2	%	103	85.0 - 115	Acceptable	
THCV	0.193	0.2	%	96.5	85.0 - 115	Acceptable	
THCVA	0.190	0.2	%	94.8	85.0 - 115	Acceptable	
CBN	0.198	0.2	%	98.9	85.0 - 115	Acceptable	
THC	0.211	0.2	%	105	85.0 - 115	Acceptable	
D8THC	0.185	0.2	%	92.6	85.0 - 115	Acceptable	
CBL	0.190	0.2	%	94.8	85.0 - 115	Acceptable	
CBC	0.200	0.2	%	100	85.0 - 115	Acceptable	
THCA	0.181	0.2	%	90.6	85.0 - 115	Acceptable	
CBCA	0.186	0.2	%	93.0	85.0 - 115	Acceptable	

### Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	<l0q< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></l0q<>	0.1	%	< 0.1	Acceptable	
CBDV	<l0q< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></l0q<>	0.1	%	< 0.1	Acceptable	
CBD-A	<l0q< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></l0q<>	0.1	%	< 0.1	Acceptable	
CBG-A	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBG	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBD	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
THCV	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
THCVA	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBN	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
THC	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
D8THC	<l0q< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></l0q<>	0.1	%	< 0.1	Acceptable	
CBL	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBC	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
THCA	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBCA	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	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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Received: 10/05/20 16:17

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				Bato	ch ID: 2008352	2/2008390			
Sample Dupli	cate			Sample ID: 20-010719-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes		
CBDV-A	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable			
CBDV	0.165	0.168	0.1	%	1.80	< 20	Acceptable			
CBD-A	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable			
CBG-A	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable			
CBG	0.127	0.123	0.1	%	2.73	< 20	Acceptable			
CBD	37.4	36.8	0.1	%	1.79	< 20	Acceptable			
THCV	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable			
THCVA	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable			
CBN	0.282	0.283	0.1	%	0.359	< 20	Acceptable			
THC	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable			
D8THC	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable			
CBL	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable			
CBC	0.375	0.384	0.1	%	2.32	< 20	Acceptable	·		
THCA	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable			
CBCA	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	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





20-010752/D03.R00 **Report Number:** 

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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.