



Report Number:	21-000477/D02.R00
Report Date:	01/20/2021
ORELAP#:	OR100028
Purchase Order:	
Received:	01/14/21 16:14

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Customer:	Healthy Roots
Product identity:	800 Lotion #122
Client/Metrc ID:	
Laboratory ID:	21-000477-0001

Summary

Analyte	Result	Limits	Units	Status	CBD-Total per 130g	858 mg/130g		
CBC	0.00513		%					
CBC-A [†]	0.00988		%		+			
CBD	0.490		%		THC-Total per 130g	9.20 mg/130g		
CBD-A	0.194		%		– – – – – – – – – – – – – – – – – – –			
CBG [†]	0.00350		%		(Reported in milligi	ans per serving)		
CBG-A [†]	0.00713		%					
∆9-THC	0.00708		%					
Analyte per 130g	Result	Limits	Units	Status				
CBC per 130g [†]	6.67		mg/130g					
CBC-A per 130g [†]	12.8		mg/130g					
CBD per 130g	637		mg/130g					
CBD-A per 130g	252		mg/130g					
CBG per 130g [†]	4.55		mg/130g					
CBG-A per 130g [†]	9.27		mg/130g					
∆9-THC per 130g	9.20		mg/130g					

Page 1 of 8 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. Testing in accordance with: OAR 333-007-0430





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Received:	01/14/21 16:14

Customer:	Healthy Roots
Product identity: Client/Metrc ID:	800 Lotion #122
Sample Date:	
Laboratory ID:	21-000477-0001
Temp:	20.9 °C
Serving Size #1:	130 g

Sample Results

Potency	Method J AOA	C 2015 V98-6 (mod)	Batch: 2100530		Analyze: 1/19/21 1:01:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.00513		%	0.0032	
CBC-A [†]	0.00988		%	0.0032	
CBC-Total [†]	0.0138		%	0.0060	
CBD	0.490		%	0.0032	
CBD-A	0.194		%	0.0032	
CBD-Total	0.660		%	0.0060	
CBDV [†]	< LOQ		%	0.0032	
CBDV-A [†]	< LOQ		%	0.0032	
CBDV-Total [†]	< LOQ		%	0.0060	
CBG [†]	0.00350		%	0.0032	
CBG-A [†]	0.00713		%	0.0032	
CBG-Total	0.00976		%	0.0060	
CBL [†]	< LOQ		%	0.0032	
CBN	< LOQ		%	0.0032	
$\Delta 8\text{-THC}^{\dagger}$	< LOQ		%	0.0032	
∆9-THC	0.00708		%	0.0032	
THC-A	< LOQ		%	0.0032	
THC-Total	0.00708		%	0.0060	
THCV [†]	< LOQ		%	0.0032	
THCV-A [†]	< LOQ		%	0.0032	
THCV-Total [†]	< LOQ		%	0.0060	
Total Cannabinoids [†]	0.717		%		

Potency per 130g	Method J AO/	AC 2015 V98-6 (mod)	Batch: 2100530		Analyze: 1/19/21 1:01:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 130g [†]	6.67		mg/130g	4.15	
CBC-A per 130g [†]	12.8		mg/130g	4.15	
CBC-Total per 130g [†]	17.9		mg/130g	7.79	
CBD per 130g	637		mg/130g	4.15	
CBD-A per 130g	252		mg/130g	4.15	
CBD-Total per 130g	858		mg/130g	7.79	
CBDV per 130g [†]	< LOQ		mg/130g	4.15	
CBDV-A per 130g [†]	< LOQ		mg/130g	4.15	
CBDV-Total per 130g [†]	< LOQ		mg/130g	7.75	

Page 2 of 8 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. Testing in accordance with: OAR 333-007-0430





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Potency per 130g	Method J AO/	AC 2015 V98-6 (mod)	Batch: 2100530		Analyze: 1/19/21 1:01:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBG per 130g [†]	4.55		mg/130g	4.15	
CBG-A per 130g [†]	9.27		mg/130g	4.15	
CBG-Total per 130g [†]	12.6		mg/130g	7.75	
CBL per 130g [†]	< LOQ		mg/130g	4.15	
CBN per 130g	< LOQ		mg/130g	4.15	
$\Delta 8$ -THC per 130g [†]	< LOQ		mg/130g	4.15	
∆9-THC per 130g	9.20		mg/130g	4.15	
THC-A per 130g	< LOQ		mg/130g	4.15	
THC-Total per 130g	9.20		mg/130g	7.79	
THCV per 130g [†]	< LOQ		mg/130g	4.15	
THCV-A per 130g [†]	< LOQ		mg/130g	4.15	
THCV-Total per 130g⁺	< LOQ		mg/130g	7.79	
Total Cannabinoids 130g [†]	932		mg/130g		

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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/130g = Milligram per 130g % = Percentage of sample % wt = $\mu g/g$ divided by 10,000

Approved Signatory

Derrick Tanner General Manager

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		OR	IES	Э			12	Por 5	tlanc 503-2	Whi 1, Of 254-	R 97 179	4	ay			Re OR Pu	port D ELAP	#: e Orde	((r:)1/20 DR10	0477/[/2021 00028 /21 16	D02.R00
		land OF	97230) p.503	3-254-	1794	Car	nnak	ois Cl				dy Ro	ecc		HYROOTS	21	-000477	ID: O	(100028	S La amus Company der Numb	
	CHAIN OF CUSTODY Company: Healthy Roots Contact: Liz Merritt Address: 14325 NE Airport Way, #113 Portland, OR 97230 Email: Healthyrootshemp@gmail.com Phone: 503-496-2329 Phone: AG-L 1052211FP	Fax:		Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	1.	olvents	tivity			Micro: Yeast and Mold	Micro: E.Coli and Total Coliform						1	Proje Proje D Re Se En Fa	ct Num ct Nam port In: nd to S nail Fina k Final I sh/Che	iber:	: RC
	Client Sample Identification	Date/ Colle	Time cted	Pesticide	Pesticide	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Ye	Micro: E.	Heavy Metals	Mycotoxins	Other	Sample Type	Weight	Servin size for edib	-	om .£	gr m	ntage)
ι	820Lation#18	a				X												130	gr	Temort in	mg/gr and	% (percentage)
	Collected By: Turnaround time: Ask for availability Standard (5 day) (1.5x Standard) Priority Rush (2 day) (2x Standard)	Relinq	uished I		nt	7	Date		Time	s DSP 1	Rece	eived by	<i>r</i> :	28	2	Date		6.14	Lab Use Client A Order N Proper (Sample Temper Shipped Evidenc	lias: umber Contain Conditi ature: Via: C	on V 20.9 lien	T ENio

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______ Effective 05/22/2019 Revised 05/22/2019__ www.pixislabs.com www.columbiafoodlab.com Page 1 of 27

Page 5 of 8 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. Testing in accordance with: OAR 333-007-0430





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Received:	01/14/21 16:14

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															
Laboratory Control	aboratory Control Sample														
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes								
CBDV-A	0.00962	0.01	%	96.2	85.0 - 115	Acceptable									
CBDV	0.00989	0.01	%	98.9	85.0 - 115	Acceptable									
CBD-A	0.0101	0.01	%	101	85.0 - 115	Acceptable									
CBG-A	0.00966	0.01	%	96.6	85.0 - 115	Acceptable									
CBG	0.00980	0.01	%	98.0	85.0 - 115	Acceptable									
CBD	0.00988	0.01	%	98.8	85.0 - 115	Acceptable									
THCV	0.00975	0.01	%	97.5	85.0 - 115	Acceptable									
THCVA	0.00918	0.01	%	91.8	85.0 - 115	Acceptable									
CBN	0.0103	0.01	%	103	85.0 - 115	Acceptable									
THC	0.0107	0.01	%	107	85.0 - 115	Acceptable									
D8THC	0.00948	0.01	%	94.8	85.0 - 115	Acceptable									
CBL	0.00977	0.01	%	97.7	85.0 - 115	Acceptable									
CBC	0.00988	0.01	%	98.8	85.0 - 115	Acceptable									
THCA	0.0104	0.01	%	104	85.0 - 115	Acceptable									
CBCA	0.00963	0.01	%	96.3	85.0 - 115	Acceptable									

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBDV	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBD-A	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBG-A	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBG	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBD	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
THCV	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
THCVA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBN	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
тнс	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
D8THC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBL	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
THCA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBCA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></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

Page 6 of 8 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. Testing in accordance with: OAR 333-007-0430





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ORELAP#:						
Purchase Order:						
Received:	01/14/21 16:14					

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: 2100530									
Sample Duplicate Sample ID: 21-000410-0001									
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes	
CBDV-A	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBDV	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBD-A	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBG-A	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBG	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBD	0.570	0.533	0.003	%	6.77	< 20	Acceptable		
THCV	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
THCVA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBN	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
THC	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
D8THC	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBL	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBC	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
THCA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBCA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></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	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.				

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