



**Customer:** Healthy Roots  
**Product identity:** 2oz Lotion 0036  
**Client/Metric ID:** .  
**Laboratory ID:** 19-013982-0001

**Sample Date:** 11/15/19

**Summary**

**Potency:**

Analyte	Result	Limits	Units	Status	
CBC <sup>†</sup>	0.0223		%		CBD-Total per 70g 214 mg/70g
CBD	0.286		%		
CBD-A	0.0218		%		THC-Total per 70g 5.59 mg/70g
Δ9-THC	0.00798		%		(Reported in milligrams per serving)
Analyte per 70g	Result	Limits	Units	Status	
CBC per 70g <sup>†</sup>	15.6		mg/70g		
CBD per 70g	200		mg/70g		
CBD-A per 70g	15.3		mg/70g		
Δ9-THC per 70g	5.59		mg/70g		



**Customer:** Healthy Roots  
  
**Product identity:** 2oz Lotion 0036  
**Client/Metric ID:** .  
**Sample Date:** 11/15/19  
**Laboratory ID:** 19-013982-0001  
**Relinquished by:** Liz Merritt  
**Temp:** 21.9 °C  
**Serving Size #1:** 70 g

**Sample Results**

Potency		Batch: 1910597					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC†	0.0223		%	0.0032	11/19/19	J AOAC 2015 V98-6	
CBC-A†	< LOQ		%	0.0032	11/19/19	J AOAC 2015 V98-6	
CBC-Total†	0.0242		%	0.0061	11/20/19	J AOAC 2015 V98-6	
CBD	0.286		%	0.0032	11/19/19	J AOAC 2015 V98-6	
CBD-A	0.0218		%	0.0032	11/19/19	J AOAC 2015 V98-6	
CBD-Total	0.305		%	0.0061	11/20/19	J AOAC 2015 V98-6	
CBDV†	< LOQ		%	0.0032	11/19/19	J AOAC 2015 V98-6	
CBDV-A†	< LOQ		%	0.0032	11/19/19	J AOAC 2015 V98-6	
CBDV-Total†	< LOQ		%	0.0060	11/20/19	J AOAC 2015 V98-6	
CBG†	< LOQ		%	0.0032	11/19/19	J AOAC 2015 V98-6	
CBG-A†	< LOQ		%	0.0032	11/19/19	J AOAC 2015 V98-6	
CBG-Total†	< LOQ		%	0.0060	11/20/19	J AOAC 2015 V98-6	
CBL†	< LOQ		%	0.0032	11/19/19	J AOAC 2015 V98-6	
CBN	< LOQ		%	0.0032	11/19/19	J AOAC 2015 V98-6	
Δ8-THC†	< LOQ		%	0.0032	11/19/19	J AOAC 2015 V98-6	
Δ9-THC	0.00798		%	0.0032	11/19/19	J AOAC 2015 V98-6	
THC-A	< LOQ		%	0.0032	11/19/19	J AOAC 2015 V98-6	
THC-Total	0.00798		%	0.0061	11/20/19	J AOAC 2015 V98-6	
THCV†	< LOQ		%	0.0032	11/19/19	J AOAC 2015 V98-6	
THCV-A†	< LOQ		%	0.0032	11/19/19	J AOAC 2015 V98-6	
THCV-Total†	< LOQ		%	0.0060	11/20/19	J AOAC 2015 V98-6	

Potency per 70g		Batch: 1910597					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 70g†	15.6		mg/70g	2.33	11/20/19	J AOAC 2015 V98-6	
CBC-A per 70g†	< LOQ		mg/70g	2.33	11/20/19	J AOAC 2015 V98-6	
CBC-Total per 70g†	16.9		mg/70g	4.38	11/20/19	J AOAC 2015 V98-6	
CBD per 70g	200		mg/70g	2.33	11/20/19	J AOAC 2015 V98-6	
CBD-A per 70g	15.3		mg/70g	2.33	11/20/19	J AOAC 2015 V98-6	
CBD-Total per 70g	214		mg/70g	4.38	11/20/19	J AOAC 2015 V98-6	
CBDV per 70g†	< LOQ		mg/70g	2.33	11/20/19	J AOAC 2015 V98-6	

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.



Potency per 70g		Batch: 1910597					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBDV-A per 70g <sup>†</sup>	< LOQ		mg/70g	2.33	11/20/19	J AOAC 2015 V98-6	
CBDV-Total per 70g <sup>†</sup>	< LOQ		mg/70g	4.36	11/20/19	J AOAC 2015 V98-6	
CBG per 70g <sup>†</sup>	< LOQ		mg/70g	2.33	11/20/19	J AOAC 2015 V98-6	
CBG-A per 70g <sup>†</sup>	< LOQ		mg/70g	2.33	11/20/19	J AOAC 2015 V98-6	
CBG-Total per 70g <sup>†</sup>	< LOQ		mg/70g	4.38	11/20/19	J AOAC 2015 V98-6	
CBL per 70g <sup>†</sup>	< LOQ		mg/70g	2.33	11/20/19	J AOAC 2015 V98-6	
CBN per 70g	< LOQ		mg/70g	2.33	11/20/19	J AOAC 2015 V98-6	
Δ8-THC per 70g <sup>†</sup>	< LOQ		mg/70g	2.33	11/20/19	J AOAC 2015 V98-6	
Δ9-THC per 70g	5.59		mg/70g	2.33	11/20/19	J AOAC 2015 V98-6	
THC-A per 70g	< LOQ		mg/70g	2.33	11/20/19	J AOAC 2015 V98-6	
THC-Total per 70g	5.59		mg/70g	4.38	11/20/19	J AOAC 2015 V98-6	
THCV per 70g <sup>†</sup>	< LOQ		mg/70g	2.33	11/20/19	J AOAC 2015 V98-6	
THCV-A per 70g <sup>†</sup>	< LOQ		mg/70g	2.33	11/20/19	J AOAC 2015 V98-6	
THCV-Total per 70g <sup>†</sup>	< LOQ		mg/70g	4.36	11/20/19	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.

† = Analyte not NELAP accredited.

**Units of Measure**

g = Gram

mg/70g = Milligram per 70g

% = Percentage of sample

% wt =  $\mu\text{g/g}$  divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



Portland OR 97230 p.503-254-1794 **Cannabis Chain of Custody Record**

ORELAP ID: OR100028



Our Roots Run Deep

**CHAIN OF CUSTODY**  
Company: Healthy Roots  
Contact: Liz Merritt  
Address: 14325 NE Airport Way, #113  
Portland, OR 97230  
Email: HealthyRootsTemp@gmail.com  
Phone: 503-496-2329  
License: AG-L-1052211FP

Client Sample Identification		Analysis Requested											Sample Type	Weight	Serving size for edibles	Comments/Metric ID
		Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins				
* 2oz lotion 0036	11/15/19		X										Topical	70gr		Report in mg/gr and % (percentage)
* 0035			X										Cocaine Oil w/030	1gr		
<del>0032</del>																

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
Turnaround time: Ask for availability <input checked="" type="checkbox"/> Standard (5 day) <input checked="" type="checkbox"/> Rush (3-4 day) (1.5x Standard) <input type="checkbox"/> Priority Rush (2 day) (2x Standard)	Liz Merritt	11/15/19	3:30	KMG	11/15/19	3:30	Client Alias: Healthy Roots Order Number: 19-13982 Proper Container Sample Condition Temperature: 21.9 Shipped Via: Client Evidence of cooling: <input checked="" type="checkbox"/> No

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 www.pixislabs.com  
Effective 05/22/2019 Revised 05/22/2019 www.columbiafoodlab.com

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.



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: 1910597**

Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits			Evaluation	Notes
CBDV-A	0.00934	0.01	%	93.4	85	-	115	Acceptable	
CBDV	0.00936	0.01	%	93.6	85	-	115	Acceptable	
CBD-A	0.00898	0.01	%	89.8	85	-	115	Acceptable	
CBG-A	0.00935	0.01	%	93.5	85	-	115	Acceptable	
CBG	0.00929	0.01	%	92.9	85	-	115	Acceptable	
CBD	0.00938	0.01	%	93.8	85	-	115	Acceptable	
THCV	0.00943	0.01	%	94.3	85	-	115	Acceptable	
THCVA	0.00917	0.01	%	91.7	85	-	115	Acceptable	
CBN	0.00905	0.01	%	90.5	85	-	115	Acceptable	
THC	0.00922	0.01	%	92.2	85	-	115	Acceptable	
D8THC	0.00946	0.01	%	94.6	85	-	115	Acceptable	
CBL	0.00965	0.01	%	96.5	85	-	115	Acceptable	
CBC	0.0105	0.01	%	105	85	-	115	Acceptable	
THCA	0.00914	0.01	%	91.4	85	-	115	Acceptable	
CBCA	0.00974	0.01	%	97.4	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



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

J AOAC 2015 V98-6		Batch ID: 1910597						
Sample Duplicate		Sample ID: 19-013924-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBDV	0.0438	0.0433	0.003	%	1.15	< 20	Acceptable	
CBD-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG	0.0780	0.0769	0.003	%	1.42	< 20	Acceptable	
CBD	5.45	6.08	0.003	%	10.9	< 20	Acceptable	
THCV	ND	ND	0.003	%	0	< 20	Acceptable	
THCVA	ND	ND	0.003	%	0	< 20	Acceptable	
CBN	0.00756	0.00772	0.003	%	2.09	< 20	Acceptable	
THC	0.226	0.224	0.003	%	0.889	< 20	Acceptable	
D8THC	ND	ND	0.003	%	0.0	< 20	Acceptable	
CBL	ND	ND	0.003	%	0	< 20	Acceptable	
CBC	0.255	0.254	0.003	%	0	< 20	Acceptable	
THCA	ND	ND	0.003	%	0	< 20	Acceptable	
CBCA	ND	ND	0.003	%	0	< 20	Acceptable	

\*Control Samples are an internal metric for extraction efficiency. Analyte limits are based on  $\pm 2$  relative standard deviations from the mean derived from twenty extractions of the control sample. Control Sample analyses are not part of the regulated quality system which detects extraction deficiencies; the LCS, Method Blank and Sample/Sample Duplicate demonstrate the quality of the extraction.

**Abbreviations**

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

**Units of Measure:**

- % - Percent



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.