



Report Number: 21-004139/D02.R00

Report Date: 04/21/2021 ORELAP#: OR100028

Purchase Order:

Received: 04/15/21 11:25

Customer: Healthy Roots Product identity: Watermelon

Client/Metrc ID:

Laboratory ID: 21-004139-0002 Sample Date: 04/15/21 09:30

Summary

Р	O	te	n	C١	v	
г	u	ιe	ш	C	v	

Analyte CBD	Result 0.771	Limits	Units %	Status	CBD-Total per 3.9g	30.1 mg/3.9g
CBDV†	0.00461 Result	Limits	% Units	Status	THC-Total per 3.9g	
CBD per 3.9g CBDV per 3.9g [†]	30.1 0.180	Lillits	mg/3.9g mg/3.9g	Status	(Reported in millig	rams per serving)

Microbiology:

Less than LOQ for all analytes.





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Customer: Healthy Roots

Product identity: Watermelon

Client/Metrc ID:

Sample Date: 04/15/21 09:30 **Laboratory ID:** 21-004139-0002

Evidence of Cooling: No
Temp: 22.4 °C
Serving Size #1: 3.9 g

Sample Results

Potency	Method J AOAC 2	015 V98-6 (mod)	Units %	Batch: 2103477	Analyze: 4/19/21 3:18:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.0033	
CBC-A [†]	< LOQ		%	0.0033	
CBC-Total [†]	< LOQ		%	0.0062	
CBD	0.771		%	0.0033	
CBD-A	< LOQ		%	0.0033	
CBD-Total	0.771		%	0.0062	
CBDV [†]	0.00461		%	0.0033	
CBDV-A [†]	< LOQ		%	0.0033	
CBDV-Total [†]	< LOQ		%	0.0061	
CBG [†]	< LOQ		%	0.0033	
CBG-A [†]	< LOQ		%	0.0033	
CBG-Total	< LOQ		%	0.0061	
CBL [†]	< LOQ		%	0.0033	
CBL-Total [†]	< LOQ		%	0.0033	
CBN	< LOQ		%	0.0033	
$\Delta 8$ -THC [†]	< LOQ		%	0.0033	
Δ9-THC	< LOQ		%	0.0033	
THC-A	< LOQ		%	0.0033	
THC-Total	< LOQ		%	0.0062	
THCV [†]	< LOQ		%	0.0033	
THCV-A [†]	< LOQ		%	0.0033	
THCV-Total [†]	< LOQ		%	0.0061	
Total Cannabinoids [†]	0.776		%		

Potency per 3.9g	Method J AOA	AC 2015 V98-6 (m	od) Units mg/se Ba	ntch: 2103477	Analyze: 4/19/21 3:18:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 3.9g [†]	< LOQ		mg/3.9g	0.128	
CBC-A per 3.9g [†]	< LOQ		mg/3.9g	0.128	
CBC-Total per 3.9g [†]	< LOQ		mg/3.9g	0.240	
CBD per 3.9g	30.1		mg/3.9g	0.128	
CBD-A per 3.9g	< LOQ		mg/3.9g	0.128	
CBD-Total per 3.9g	30.1		mg/3.9g	0.240	
CBDV per 3.9g [†]	0.180		mg/3.9g	0.128	

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Potency per 3.9g	Method J AOA	AC 2015 V98-6 (m	od) Units mg/se Ba	tch: 2103477	Analyze: 4/19/21 3:18:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBDV-A per 3.9g [†]	< LOQ		mg/3.9g	0.128	
CBDV-Total per 3.9g [†]	< LOQ		mg/3.9g	0.239	
CBG per 3.9g [†]	< LOQ		mg/3.9g	0.128	
CBG-A per 3.9g [†]	< LOQ		mg/3.9g	0.128	
CBG-Total per 3.9g [†]	< LOQ		mg/3.9g	0.239	
CBL per 3.9g [†]	< LOQ		mg/3.9g	0.128	
CBL-Total per 3.9g [†]	< LOQ		mg/3.9g	73.3	
CBN per 3.9g	< LOQ		mg/3.9g	0.128	
$\Delta 8$ -THC per 3.9g [†]	< LOQ		mg/3.9g	0.128	
$\Delta 9$ -THC per 3.9g	< LOQ		mg/3.9g	0.128	
THC-A per 3.9g	< LOQ		mg/3.9g	0.128	
THC-Total per 3.9g	< LOQ		mg/3.9g	0.240	
THCV per 3.9g [†]	< LOQ		mg/3.9g	0.128	
THCV-A per 3.9g [†]	< LOQ		mg/3.9g	0.128	
THCV-Total per 3.9g [†]	< LOQ		mg/3.9g	0.240	

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2103364	04/17/21	AOAC 991.14 (Petrifilm)	X,I
Total Coliforms	< LOQ		cfu/g	10	2103364	04/17/21	AOAC 991.14 (Petrifilm)	X,I





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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

cfu/g = Colony forming units per gram g = Gram mg/3.9g = Milligram per 3.9g % = Percentage of sample % wt = μ g/g divided by 10,000

Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner General Manager





Report Number: 21-004

21-004139/D02.R00

Report Date:

04/21/2021

ORELAP#:

OR100028

Purchase Order:

Received: 04/15/21 11:25



Hemp / Cannabis Usable / Extract / Finished Products Chain of Custody Record

21-004139

Revision: 4.00 Control#: CF023 Rev 02/24/2021 Eff: 03/04/2021 ORELAP ID: **OR100028**

CHAIN OF	CUSTODY		e.			Α	nalys	is Rec	ueste	d					O 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 Ph: ()		- OR 59 compounds	Pesticide Multi-Residue – 379 compounds		solvents	Moisture & Water Activity		Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	itals	ns		Proje Pro Custom Report	ect Number: oject Name: Reporting: to State -	TRC or Other: Business Day Standard Turnaround Business Day Rush Turnaround* Business Day Rush Turnaround* Check for availability	
Lab ID Client Sample Identification	Date	Time	Pesticides -	Pesticide	Potency	Residual Solvents	Moisture	Terpenes	Micro: Ye	Micro: E.0	Heavy Metals	Mycotoxins	Other:	Sample Type †	Weight (Units)	Comments/Metrc ID
\ Orange/Manzo	04/15/21	- 4			V					~				E	3.7gr	
2 Watermelon	<i>७५ 15 </i> २।									V				E	3.9 gr	
																Report in mg/gr and % (percentage)
Relinquished By:	Date	Time			Re	ceived	Ву:			Da	te	Tir	ne			Lab Use Only:
Merrult	04/15/21		9	m						4-19				Evidence Sample i Cash Prelog si	e of cooling: Ye in good conditio Check Ctorage:	

† - Sample Type Codes: Vegetation (V); Isolates (S); Extract/Concentrate (C); Tincture/Topical (†); 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

P: (503) 254-1794 | Fax: (503) 254-1452

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Report Number: 21-004139/D02.R00

04/21/2021 Report Date: ORELAP#: OR100028

Purchase Order:

Received: 04/15/21 11:25

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

Laboratory Quality Control Results

J AOAC 2015	AOAC 2015 V98-6 Batch ID: 2103477									
Laboratory Co	ntrol Sample									
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes			
CBDV-A	0.0101	0.01	%	101	85.0 - 115	Acceptable				
CBDV	0.0101	0.01	%	101	85.0 - 115	Acceptable				
CBD-A	0.0104	0.01	%	104	85.0 - 115	Acceptable				
CBG-A	0.00997	0.01	%	99.7	85.0 - 115	Acceptable				
CBG	0.0102	0.01	%	102	85.0 - 115	Acceptable				
CBD	0.0105	0.01	%	105	85.0 - 115	Acceptable				
THCV	0.0103	0.01	%	103	85.0 - 115	Acceptable				
THCVA	0.00959	0.01	%	95.9	85.0 - 115	Acceptable				
CBN	0.0112	0.01	%	112	85.0 - 115	Acceptable				
THC	0.0110	0.01	%	110	85.0 - 115	Acceptable				
D8THC	0.0103	0.01	%	103	85.0 - 115	Acceptable				
CBL	0.0101	0.01	%	101	85.0 - 115	Acceptable				
CBC	0.0103	0.01	%	103	85.0 - 115	Acceptable				
THCA	0.0106	0.01	%	106	85.0 - 115	Acceptable				
CBCA	0.0102	0.01	%	102	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	
THC	<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





Report Number: 21-004139/D02.R00

04/21/2021 Report Date: ORELAP#: OR100028

Purchase Order:

04/15/21 11:25 Received:

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				Bate	ch ID: 2103477					
Sample Dupl	icate			Sample ID: 21-004061-0001							
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	0.00306	0.00308	0.003	%	0.424	< 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	0.486	0.483	0.003	%	0.606	< 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	0.0250	0.0248	0.003	%	0.442	< 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





Report Number: 21-004139/D02.R00

Report Date: 04/21/2021 ORELAP#: OR100028

Purchase Order:

Received: 04/15/21 11:25

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.