



Report Number: 21-004837/D02.R00

Report Date: 05/05/2021 ORELAP#: OR100028

Purchase Order:

Received: 04/30/21 14:30

Customer: Healthy Roots Product identity: #144 3000 Citrus

Client/Metrc ID:

Laboratory ID:

21-004837-0002

Sample Date: 04/30/21

Summary

_		
D	Oto	ncv:
	OLE	ILV.

Analyte CBD	Result	Limits	Units %	Status	CBD-Total per 28.5g	3020 mg/28.5g	
CBDV† Analyte per 28.5g	0.0206 Result	Limits	% Units	Status	THC-Total per 28.5g	<loq< td=""></loq<>	
CBD per 28.5g CBDV per 28.5g [†]	3020 5.87	Lillito	mg/28.5g mg/28.5g	Oluluo	(Reported in milligrams per serving)		





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Customer: Healthy Roots

Product identity: #144 3000 Citrus

Client/Metrc ID:

Sample Date: 04/30/21

Laboratory ID: 21-004837-0002

Temp: 24.6 °C **Serving Size #1:** 28.5 g

Sample Results

Potency	Method J AOAC 2	2015 V98-6 (mod)	Units %	Batch: 2104051	Analyze: 5/5/21 2:09:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.0032	
CBC-A [†]	< LOQ		%	0.0032	
CBC-Total [†]	< LOQ		%	0.0060	
CBD	10.6		%	0.319	
CBD-A	< LOQ		%	0.0032	
CBD-Total	10.6		%	0.322	
CBDV [†]	0.0206		%	0.0032	
CBDV-A†	< LOQ		%	0.0032	
CBDV-Total [†]	0.0206		%	0.0060	
CBG [†]	< LOQ		%	0.0032	
CBG-A [†]	< LOQ		%	0.0032	
CBG-Total	< LOQ		%	0.0060	
CBL [†]	< LOQ		%	0.0032	
CBN	< LOQ		%	0.0032	
$\Delta 8\text{-THC}^{\dagger}$	< LOQ		%	0.0032	
Δ9-THC	< LOQ		%	0.0032	
THC-A	< LOQ		%	0.0032	
THC-Total	< LOQ		%	0.0060	
THCV [†]	< LOQ		%	0.0032	
THCV-A [†]	< LOQ		%	0.0032	
THCV-Total [†]	< LOQ		%	0.0060	
Total Cannabinoids [†]	10.6		%		

Potency per 28.5g	Method J AOA	AC 2015 V98-6 (m	od) Units mg/se Ba	tch: 2104051	Analyze: 5/5/21 2:09:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g [†]	< LOQ		mg/28.5g	0.911	
CBC-A per 28.5g [†]	< LOQ		mg/28.5g	0.911	
CBC-Total per 28.5g [†]	< LOQ		mg/28.5g	1.71	
CBD per 28.5g	3020		mg/28.5g	91.1	
CBD-A per 28.5g	< LOQ		mg/28.5g	0.911	
CBD-Total per 28.5g	3020		mg/28.5g	91.9	
CBDV per 28.5g [†]	5.87		mg/28.5g	0.911	
CBDV-A per 28.5g [†]	< LOQ		mg/28.5g	0.911	
CBDV-Total per 28.5g [†]	5.87		mg/28.5g	1.70	

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Potency per 28.5g	Method J AOA	AC 2015 V98-6 (m	od) Units mg/se Ba	tch: 2104051	Analyze: 5/5/21 2:09:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBG per 28.5g [†]	< LOQ		mg/28.5g	0.911	
CBG-A per 28.5g [†]	< LOQ		mg/28.5g	0.911	
CBG-Total per 28.5g [†]	< LOQ		mg/28.5g	1.70	
CBL per 28.5g [†]	< LOQ		mg/28.5g	0.911	
CBN per 28.5g	< LOQ		mg/28.5g	0.911	
$\Delta 8$ -THC per 28.5g [†]	< LOQ		mg/28.5g	0.911	
Δ9-THC per 28.5g	< LOQ		mg/28.5g	0.911	
THC-A per 28.5g	< LOQ		mg/28.5g	0.911	
THC-Total per 28.5g	< LOQ		mg/28.5g	1.71	
THCV per 28.5g [†]	< LOQ		mg/28.5g	0.911	
THCV-A per 28.5g [†]	< LOQ		mg/28.5g	0.911	
THCV-Total per 28.5g [†]	< LOQ		mg/28.5g	1.71	





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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/28.5g = Milligram per 28.5g % = Percentage of sample % wt = μg/g divided by 10,000

Approved Signatory

Derrick Tanner General Manager





Report Number: 21-004837/D02.R00

Report Date: 05/05/2021 ORELAP#: OR100028

Purchase Order:

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

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

21-004837

						A	nalys	is Red	queste	d					O Number	
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 License: AG-L 1052211FP Billing (if different):		- OR 59 compounds	Pesticide Multi-Residue – 379 compounds		olvents	& Water Activity		Micro: Yeast and Mold	oli and Total Coliform	tals	St		Proje Pro Custom Report	ect Number: oject Name: Reporting: to State - □ Mi und time: □ 5	ETRC 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 8	Terpenes	Micro: Ye	Micro: E.Coli	Heavy Metals	Mycotoxins	Other:	Sample Type †	Weight (Units)	Comments/Metrc ID
1 150 LC.042221.376 2 #144 3000 Citrus 3 #145 Facial Oil 4 #146 60mg FSO Base	4/30 4/30 4/30 4/30		✓		\(\times \)						-			5	1 gr 28.5 gr 16 gr 3.5 gr	Report in mg/gr and (percentage)
Relinquished By:	Date	Time			Re	ceived	Bv:	2	m		Ч	130				% (percentage)
merritt	-	2:30)m	N .		-1-		_	41	80 21	¥	30	Evidence Sample i Cash	e of cooling: 🗆 Y	or Client drop /es

† - Sample Type Codes: Vegetation (V); Isolates (S); Extract/Concentrate (C); Tincture/Topical (T); 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 3 NE Whitaker Way

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

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Report Number: 21-004837/D02.R00

05/05/2021 Report Date: ORELAP#: OR100028

Purchase Order:

Received: 04/30/21 14:30

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

Laboratory Quality Control Results

J AOAC 2015 V	/98-6						
Laboratory Cor	ntrol Sample						
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.00984	0.01	%	98.4	85.0 - 115	Acceptable	
CBDV	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBD-A	0.0100	0.01	%	100	85.0 - 115	Acceptable	
CBG-A	0.00985	0.01	%	98.5	85.0 - 115	Acceptable	
CBG	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBD	0.0115	0.01	%	115	85.0 - 115	Acceptable	
THCV	0.0102	0.01	%	102	85.0 - 115	Acceptable	
THCVA	0.00963	0.01	%	96.3	85.0 - 115	Acceptable	
CBN	0.0107	0.01	%	107	85.0 - 115	Acceptable	
THC	0.0109	0.01	%	109	85.0 - 115	Acceptable	
D8THC	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBL	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBC	0.0104	0.01	%	104	85.0 - 115	Acceptable	
THCA	0.0105	0.01	%	105	85.0 - 115	Acceptable	
CBCA	0.0109	0.01	%	109	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





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Received: 04/30/21 14:30

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	h ID: 2104051		
Sample Dupli	cate				Samı			
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	0.0198	0.0204	0.003	%	2.99	< 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	0.0272	0.0279	0.003	%	2.69	< 20	Acceptable	
CBD	2.59	2.62	0.003	%	1.48	< 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	0.0439	0.0439	0.003	%	0.0596	< 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	0.00748	0.00711	0.003	%	5.1	< 20	Acceptable	
CBC	0.108	0.108	0.003	%	0.40	< 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.