



Report Number: 21-008176/D003.R000

Report Date: 07/23/2021 ORELAP#: OR100028

Purchase Order:

Received: 07/19/21 15:15

Customer: Healthy Roots Product identity: 155V2, 500 Pet

Client/Metrc ID:

Laboratory ID: 21-008176-0002

Sample Date: 07/19/21

Summary

Potency:	P	ote	en	CV	:
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Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g	544 mg/28.5g
CBC	0.0516		%			
CBD	1.91		%			
CBDV [†]	0.00995		%		THC-Total per 28.5g	22.3 mg/28.5g
CBE [†]	0.0116		%		Reported in milligr	ome per certified
CBG [†]	0.0145		%		(Reported in milligr	ams per serving)
CBN	0.00571		%			
CBT [†]	0.0404		%			
Δ9-THC	0.0781		%			
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g [†]	14.7		mg/28.5g			
CBD per 28.5g	544		mg/28.5g			
CBDV per 28.5g [†]	2.84		mg/28.5g			
CBE per 28.5g [†]	3.31		mg/28.5g			
CBG per 28.5g [†]	4.13		mg/28.5g			
CBN per 28.5g	1.63		mg/28.5g			
CBT per 28.5g [†]	11.5		mg/28.5g			
Δ9-THC per 28.5g	22.3		mg/28.5g			





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Customer: Healthy Roots

Product identity: 155V2, 500 Pet

Client/Metrc ID:

Sample Date: 07/19/21

Laboratory ID: 21-008176-0002

Evidence of Cooling: No Temp: 30.5°C Serving Size #1: 28.5 g

Sample Results

Analyte CBC CBC-A† CBC-Total† CBD CBD-A CBD-Total CBDV† CBDV-A†	Cample Itt			
CBC CBC-A† CBC-Total† CBD CBD-A CBD-Total CBDV† CBDV-A†	lethod J AOAC 2015 V98-6 (mod)	Units %	Batch: 2106521	Analyze: 7/22/21 3:47:00 PM
CBC-A† CBC-Total† CBD CBD-A CBD-Total CBDV† CBDV-A†	Result Limits	Units	LOQ	Notes
CBC-Total† CBD CBD-A CBD-Total CBDV† CBDV-A†	0.0516	%	0.0033	
CBD CBD-A CBD-Total CBDV [†] CBDV-A [†]	< LOQ	%	0.0033	
CBD-A CBD-Total CBDV [†] CBDV-A [†]	0.0516	%	0.0062	
CBD-Total CBDV† CBDV-A†	1.91	%	0.0332	
CBDV [†] CBDV-A [†]	< LOQ	%	0.0033	
CBDV-A [†]	1.91	%	0.0362	
	0.00995	%	0.0033	
CBDV-Total†	< LOQ	%	0.0033	
OBB V Total	0.00995	%	0.0062	
CBE [†]	0.0116	%	0.0033	
CBG [†]	0.0145	%	0.0033	
CBG-A [†]	< LOQ	%	0.0033	
CBG-Total	0.0145	%	0.0062	
CBL [†]	< LOQ	%	0.0033	
CBL-A [†]	< LOQ	%	0.0033	
CBL-Total [†]	< LOQ	%	0.0062	
CBN	0.00571	%	0.0033	
CBT [†]	0.0404	%	0.0033	
Δ8-THCV	< LOQ	%	0.0033	
$\Delta 8$ -THC †	< LOQ	%	0.0033	
Δ9-THC	0.0781	%	0.0033	
THC-A	< LOQ	%	0.0033	
THC-Total	0.0781	%	0.0062	
THCV [†]	< LOQ	%	0.0033	
THCV-A [†]	< LOQ	%	0.0033	
THCV-Total [†]	< LOQ	%	0.0062	
Total Cannabinoids [†]	2.12	%		
Potency per 28.5g Me				

Potency per 28.5g	Method J AOA	AC 2015 V98-6 (m	nod) Units mg/se Ba	tch: 2106521	Analyze: 7/22/21 3:47:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g [†]	14.7		mg/28.5g	0.947	
CBC-A per 28.5g [†]	< LOQ		mg/28.5g	0.947	
CBC-Total per 28.5g [†]	14.7		mg/28.5g	1.78	
CBD per 28.5g	544		mg/28.5g	9.47	

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Report Number: 21-008176/D003.R000

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Purchase Order:

Received: 07/19/21 15:15

Potency per 28.5g	Method J AOA	AC 2015 V98-6 (mo	d) Units mg/se Ba	tch: 2106521	Analyze: 7/22/21 3:47:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBD-A per 28.5g	< LOQ		mg/28.5g	0.947	
CBD-Total per 28.5g	544		mg/28.5g	10.3	
CBDV per 28.5g [†]	2.84		mg/28.5g	0.947	
CBDV-A per 28.5g [†]	< LOQ		mg/28.5g	0.947	
CBDV-Total per 28.5g [†]	2.84		mg/28.5g	1.77	
CBE per 28.5g [†]	3.31		mg/28.5g	0.947	
CBG per 28.5g [†]	4.13		mg/28.5g	0.947	
CBG-A per 28.5g [†]	< LOQ		mg/28.5g	0.947	
CBG-Total per 28.5g [†]	4.13		mg/28.5g	1.77	
CBL per 28.5g [†]	< LOQ		mg/28.5g	0.947	
CBL-A per 28.5g [†]	< LOQ		mg/28.5g	0.947	
CBL-Total per 28.5g [†]	< LOQ		mg/28.5g	1.78	
CBN per 28.5g	1.63		mg/28.5g	0.947	
CBT per 28.5g [†]	11.5		mg/28.5g	0.947	
$\Delta 8$ -THCV per 28.5g [†]	< LOQ		mg/28.5g	0.947	
$\Delta 8$ -THC per 28.5g [†]	< LOQ		mg/28.5g	0.947	
Δ9-THC per 28.5g	22.3		mg/28.5g	0.947	
exo-THC per 28.5g [†]	< LOQ		mg/28.5g	0.947	
THC-A per 28.5g	< LOQ		mg/28.5g	0.947	
THC-Total per 28.5g	22.3		mg/28.5g	1.78	
THCV per 28.5g [†]	< LOQ		mg/28.5g	0.947	
THCV-A per 28.5g [†]	< LOQ		mg/28.5g	0.947	
THCV-Total per 28.5g [†]	< LOQ		mg/28.5g	1.78	
Total Cannabinoids per 28.5g	605		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 = Gram mg/28.5g = Milligram per 28.5g % = Percentage of sample $% wt = \mu g/g divided by 10,000$

Approved Signatory

Derrick Tanner General Manager





Report Number:

21-008176/D003.R000

Report Date:

07/23/2021

ORELAP#:

OR100028

Purchase Order:

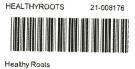
Received:

07/19/21 15:15



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**



						А	nalysi	s Req	ueste	d		141.14	S	P	O Number:	
Company:		– OR 59 compounds	Pesticide Multi-Residue – 379 compounds		olvents	Moisture & Water Activity		Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	tals		Mate (Jococc	Custom Report t	oject Name: Reporting: so State - \ ME and time: \ 5 \ \(\frac{1}{3} \) \ 2 2	TRC or Other:	
ab ID Client Sample Identification	Date	Time	Pesticides	Pesticide	Potency	Residual Solvents	Moisture	Terpenes	Micro: Yea	Micro: E.C	Heavy Metals	Mycotoxins	otheropic	Sample Type †	Weight (Units)	Comments/Metrc ID
#156v2,800 Ret #155v2,500 Ret	7/19				~									T	28.5gr	# # # # # # # # # # # # # # # # # # #
																Report in mg/gr and % (percentage)
Relinquished By:	Date	Time			R	eceivec	By:			D	ate	Tir	me	(%)		Lab Use Only:
merritt	7/19		1	1q	git	F	Non			07	la hu	15	11	Evidence Sample	e of cooling: in good conditi	or @Client drop Yes @No - Temp (°C): 3 \cdot \cdo

† - 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

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Portland, OR 97230

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Report Number: 21-008176/D003.R000

07/23/2021 Report Date: ORELAP#: OR100028

Purchase Order:

Received: 07/19/21 15:15

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

		Labor	atory (Quality Co	ntrol Result	ts						
J AOAC 2015 V9	AOAC 2015 V98-6 Batch ID: 2106521											
aboratory Control Sample												
Analyte	Result	Spike	Units	% Rec	Limits		Limits		Limits		Evaluation	Notes
CBDVA	0.00876	0.01	%	87.6	85.0 -	115	Acceptable					
CBDV	0.00890	0.01	%	89.0	85.0 -	115	Acceptable					
CBE	0.00898	0.01	%	89.8	85.0 -	115	Acceptable					
CBDA	0.00938	0.01	%	93.8	85.0 -	115	Acceptable					
CBGA	0.00881	0.01	%	88.1	85.0 -	115	Acceptable					
CBG	0.00896	0.01	%	89.6	85.0 -	115	Acceptable					
CBD	0.00957	0.01	%	95.7	85.0 -	115	Acceptable					
THCV	0.00888	0.01	%	88.8	85.0 -	115	Acceptable					
d8THCV	0.00904	0.01	%	90.4	85.0 -	115	Acceptable					
THCVA	0.00855	0.01	%	85.5	85.0 -	115	Acceptable					
CBN	0.00957	0.01	%	95.7	85.0 -	115	Acceptable					
exo-THC	0.00862	0.01	%	86.2	85.0 -	115	Acceptable					
d9THC	0.00952	0.01	%	95.2	85.0 -	115	Acceptable					
d8THC	0.00868	0.01	%	86.8	85.0 -	115	Acceptable					
CBL	0.00869	0.01	%	86.9	85.0 -	115	Acceptable					
CBC	0.00898	0.01	%	89.8	85.0 -	115	Acceptable					
THCA	0.00932	0.01	%	93.2	85.0 -	115	Acceptable					
CBCA	0.00872	0.01	%	87.2	85.0 -	115	Acceptable					
CBLA	0.00938	0.01	%	93.8	85.0 -	115	Acceptable					
CBT	0.0101	0.01	%	101	85.0 -	115	Acceptable					

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<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	
CBE	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBDA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBGA	<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	
d8THCV	<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	
exo-THC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
d9THC	<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	
CBLA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBT	<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: 21-008176/D003.R000

07/23/2021 Report Date: ORELAP#: OR100028

Purchase Order:

Received: 07/19/21 15:15

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				Bato	ch ID: 2106521		
Sample Duplica	te				Samp	ole ID: 21-0081 3	6-0001	
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<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	0.00547	0.00549	0.003	%	0.328	< 20	Acceptable	
CBE	0.0155	0.0158	0.003	%	1.92	< 20	Acceptable	
CBDA	0.0213	0.0211	0.003	%	0.562	< 20	Acceptable	
CBGA	<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	0.0155	0.0155	0.003	%	0.402	< 20	Acceptable	
CBD	1.62	1.94	0.003	%	18.01	< 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	
d8THCV	<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	0.00444	0.00431	0.003	%	3.07	< 20	Acceptable	
exo-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	
d9THC	0.0833	0.0817	0.003	%	1.90	< 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	0.0848	0.0838	0.003	%	1.11	< 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	
CBLA	<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	
CBT	0.0352	0.0428	0.003	%	19.5	< 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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Purchase Order:

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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.