

Report Number:	22-009125/D002.R001
Report Date:	08/16/2022
ORELAP#:	OR100028
Purchase Order:	
Received:	08/02/22 14:22



This is an amended version of report# 22-009125/D002.R000. Reason: Sample re-extracted for potency.

Customer:	Healthy Roots
Product identity:	#224, Paw Butter
Client/Metrc ID:	
Laboratory ID:	22-009125-0001

_ _ _ _ _ _ _ _

Summary

Analyte	Result	Limits	Units	Status	CBD-Total per Serving Size 1340 mg/100g
CBC	0.0506		%		
CBD	1.33		%		+
CBD-A	0.00880		%		THC-Total per Serving Size <loq< td=""></loq<>
CBDV	0.00732		%		(Reported in milligrams per serving)
CBT	0.00385		%		(Reported in minigrams per serving)
Analyte per 100g	Result	Limits	Units	Status	
CBC per 100g	50.6		mg/100g		
CBD per 100g	1330		mg/100g		
CBD-A per 100g	8.80		mg/100g		
CBDV per 100g	7.32		mg/100g		
CBT per 100g	3.85		mg/100g		

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Testing in accordance with: OAR 333-007-0430





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ORELAP#:	OR100028
Purchase Order:	
Received:	08/02/22 14:22

Customer:	Healthy Roots
Product identity:	#224, Paw Butter
Client/Metrc ID:	
Sample Date:	
Laboratory ID:	22-009125-0001
Evidence of Cooling:	No
Temp:	28.1 °C
Relinquished by:	Client
Serving Size #1:	100 g

Sample Results

Potency	Method: J AOAC 2015 V	98-6 (mod)	Units %	Batch: 2206906	Analyze: 8/15/22 8:24:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0506		%	0.00317	
CBC-A	< LOQ		%	0.00317	
CBC-Total	0.0506		%	0.00595	
CBD⊥	1.33		%	0.0317	
CBD-A⊥	0.00880		%	0.00317	
CBD-Total	1.34		%	0.0345	
CBDV	0.00732		%	0.00317	
CBDV-A	< LOQ		%	0.00317	
CBDV-Total	0.00732		%	0.00592	
CBE	< LOQ		%	0.00317	
CBG	< LOQ		%	0.00317	
CBG-A	< LOQ		%	0.00317	
CBG-Total	< LOQ		%	0.00592	
CBL	< LOQ		%	0.00317	
CBL-A	< LOQ		%	0.00317	
CBL-Total	< LOQ		%	0.00595	
CBN	< LOQ		%	0.00317	
CBT	0.00385		%	0.00317	
∆8-THCV	< LOQ		%	0.00317	
$\Delta 8\text{-THC}^{\perp}$	< LOQ		%	0.00317	
$\Delta 9\text{-THC}^{\perp}$	< LOQ		%	0.00317	
exo-THC	< LOQ		%	0.00317	
THC-A⊥	< LOQ		%	0.00317	
THC-Total	< LOQ		%	0.00595	
THCV	< LOQ		%	0.00317	
THCV-A	< LOQ		%	0.00317	
THCV-Total	< LOQ		%	0.00592	
Total Cannabinoids	1.40		%		
Potency per 100g	Method: J AOAC 2015 V	98-6 (mod)	Units mg/se	e Batch: 2206906	Analyze: 8/15/22 8:24:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 100g	50.6		mg/100g	3.17	

Page 2 of 9 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
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Potency per 100g	Method: J AOAC 2015	V98-6 (mod)	Units mg/se Bate	ch: 2206906	Analyze: 8/15/22 8:24:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC-A per 100g	< LOQ		mg/100g	3.17	
CBC-Total per 100g	50.6		mg/100g	5.95	
CBD per 100g	1330		mg/100g	31.7	
CBD-A per 100g	8.80		mg/100g	3.17	
CBD-Total per 100g	1340		mg/100g	34.5	
CBDV per 100g	7.32		mg/100g	3.17	
CBDV-A per 100g	< LOQ		mg/100g	3.17	
CBDV-Total per 100g	7.32		mg/100g	5.92	
CBE per 100g	< LOQ		mg/100g	3.17	
CBG per 100g	< LOQ		mg/100g	3.17	
CBG-A per 100g	< LOQ		mg/100g	3.17	
CBG-Total per 100g	< LOQ		mg/100g	5.92	
CBL per 100g	< LOQ		mg/100g	3.17	
CBL-A per 100g	< LOQ		mg/100g	3.17	
CBL-Total per 100g	< LOQ		mg/100g	5.95	
CBN per 100g	< LOQ		mg/100g	3.17	
CBT per 100g	3.85		mg/100g	3.17	
∆8-THCV per 100g	< LOQ		mg/100g	3.17	
∆8-THC per 100g	< LOQ		mg/100g	3.17	
∆9-THC per 100g	< LOQ		mg/100g	3.17	
exo-THC per 100g	< LOQ		mg/100g	3.17	
THC-A per 100g	< LOQ		mg/100g	3.17	
THC-Total per 100g	< LOQ		mg/100g	5.95	
THCV per 100g	< LOQ		mg/100g	3.17	
THCV-A per 100g	< LOQ		mg/100g	3.17	
THCV-Total per 100g	< LOQ		mg/100g	5.95	
Total Cannabinoids per 100)g 1400		mg/100g		

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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, CCR title 16-division 42. BCC-section 5723

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.

* = TNI accredited analyte.

Units of Measure

g = gmg/100g = Milligram per 100g % = Percentage of sample % wt = $\mu g/g$ divided by 10,000

Approved Signatory

Derrick Tanner General Manager

www.columbialaboratories.com

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Received:	08/02/22 14:22

									PID: C									
	CHAIN OF C Company: Healthy Roots Contact: Liz Merritt Address: 14325 NE Airpo Portland, OR 9 Email: Healthyrootshemp Phone: 503-496-2329 License: AG-L 1052211FF (Fx Results ng (if different):	ort Way, #: 7230 p@gmail.c , : ()	om	esticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds			Voisture & Water Activity	s Req	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	etals	su		Project Proje Custom Re Report to	Number: eporting: State - 🗌 ME d time: 🔟 S E 🗌 3 E 	* TRC or Other: Other: Business Day Standard Turnaround Business Day Rush Turnaround* Business Day Rush Turnaround* heck for availability	
Lab ID	Client Sample Identification	Date	Time	Pesticides	Pesticide	Potency	Residual Solvents	Moisture	Terpenes	Micro: Ye	Micro: E.	Heavy Metals	Mycotoxins	Other:	Sample Type †	Weight (Units)	Comments/Metrc ID	
	#224, Paw Butter				• •										T	100 g	18	
																	Report in mg/gr and % (percentage	
	Relinquished By:	Date	Time			R	eceived	By:	-	1	D	ate	T	ime			Lab Use Only:	
r	Nelton	8/2	2:00p				DS	>			8(2	In	14:	22	Evidence Sample in □ Cash	Shipped Via:or € Client drop Evidence of cooling: □ Yes ∱ 5 No - Temp (°C):8		

mples submitted to Co. agreeing to th 12423 NE Whitaker Way Portland, OR 97230 Page of ______ P: (503) 254-1794 | Fax: (503) 254-1452

Page 5 of 9 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
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Received:	08/02/22 14:22

Revision: 1 Document ID: 7148 Legacy ID: Worksheet Validated 04/20/2021

			Lab	oratory	Quality Co	ntrol Resu	ults				
JAOAC 2015 V98-6											
Laboratory Control Sample											
Analyte	LCS	Result	Spike	Units	% Rec	Li	imits	Evaluation	Notes		
CBDVA	1	0.0324	0.033	%	97.3	80.0	- 120	Acceptable			
CBDV	1	0.0343	0.033	%	103	80.0	- 120	Acceptable			
CBE	1	0.0334	0.033	%	100	80.0	- 120	Acceptable			
CBDA	1	0.0320	0.032	%	99.9	90.0	- 110	Acceptable			
CBGA	1	0.0328	0.032	%	102	80.0	- 120	Acceptable			
CBG	1	0.0345	0.034	%	102	80.0	- 120	Acceptable			
CBD	1	0.0349	0.033	%	104	90.0	- 110	Acceptable			
THCV	1	0.0347	0.033	%	104	80.0	- 120	Acceptable			
d8THCV	1	0.0353	0.033	%	106	80.0	- 120	Acceptable			
THCVA	1	0.0319	0.033	%	95.6	80.0	- 120	Acceptable			
CBN	1	0.0349	0.034	%	102	90.0	- 110	Acceptable			
exo-THC	1	0.0337	0.033	%	101	80.0	- 120	Acceptable			
d9THC	1	0.0371	0.037	%	100	90.0	- 110	Acceptable			
d8THC	1	0.0335	0.033	%	101	90.0	- 110	Acceptable			
CBL	1	0.0316	0.033	%	94.9	80.0	- 120	Acceptable			
CBC	1	0.0353	0.033	%	106	80.0	- 120	Acceptable			
THCA	1	0.0317	0.032	%	100	90.0	- 110	Acceptable			
CBCA	1	0.0333	0.033	%	99.9	80.0	- 120	Acceptable			
CBLA	1	0.0355	0.033	%	106	80.0	- 120	Acceptable			
CBT	1	0.0359	0.033	%	108	80.0	- 120	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

Page 6 of 9 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
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ORELAP#:	OR100028
Purchase Order:	
Received:	08/02/22 14:22

Revision: 1 Document ID: 7148 Legacy ID: Worksheet Validated 04/20/2021

			La	ooratory	Quality Cor	trol Results			
JAOAC 2015 V98-6	Batch ID: 2206906								
Sample Duplicate			Sample ID: 22-009589-0001						
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	<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		
CBE	<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		
CBDA	<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		
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	<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	0.369	0.376	0.003	%	2.06	< 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	<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		
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	<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		
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	0.0072	0.0070	0.003	%	3.37	< 20	Acceptable		

Abbreviations

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

Units of Measure:

Page 7 of 9 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
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Testing in accordance with: OAR 333-007-0430





Report Number:	22-009125/D002.R001
Report Date:	08/16/2022
ORELAP#:	OR100028
Purchase Order:	
Received:	08/02/22 14:22



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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
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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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