



12423 NE Whitaker Way  
Portland, OR 97230  
503-254-1794



**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/Metric ID:** .  
**Laboratory ID:** 22-009125-0001

### Summary

#### Potency:

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
CBDV	0.00732		%		
CBT	0.00385		%		(Reported in milligrams 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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**Customer:** Healthy Roots  
**Product identity:** #224, Paw Butter  
**Client/Metric 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 V98-6 (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 <sup>±</sup>	1.33		%	0.0317	
CBD-A <sup>±</sup>	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	
Δ8-THCV	< LOQ		%	0.00317	
Δ8-THC <sup>±</sup>	< LOQ		%	0.00317	
Δ9-THC <sup>±</sup>	< LOQ		%	0.00317	
exo-THC	< LOQ		%	0.00317	
THC-A <sup>±</sup>	< LOQ		%	0.00317	
THC-Total	< LOQ		%	0.00595	
THCV	< LOQ		%	0.00317	
THCV-A	< LOQ		%	0.00317	
THCV-Total	< LOQ		%	0.00592	
<b>Total Cannabinoids</b>	<b>1.40</b>		%		

Potency per 100g	Method: J AOAC 2015 V98-6 (mod)		Units mg/se	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	



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Potency per 100g      Method: J AOAC 2015 V98-6 (mod)      Units mg/se      Batch: 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	
Δ8-THCV per 100g	< LOQ		mg/100g	3.17	
Δ8-THC per 100g	< LOQ		mg/100g	3.17	
Δ9-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 100g	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 = g

mg/100g = Milligram per 100g

% = Percentage of sample

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

Approved Signatory

Derrick Tanner  
General Manager





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

#### Laboratory Quality Control Results

JAOAC 2015 V98-6									
Batch ID: 2206906									
Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits	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		
CBD	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	0.003	%	< 0.003	Acceptable	
CBDV	<LOQ	0.003	%	< 0.003	Acceptable	
CBE	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	<LOQ	0.003	%	< 0.003	Acceptable	
d9THC	<LOQ	0.003	%	< 0.003	Acceptable	
d8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<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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Laboratory Quality Control Results

JAOAC2015 V98-6		Batch ID: 2206906						
Sample Duplicate		Sample ID: 22-009589-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.369	0.376	0.003	%	2.06	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<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:**



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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	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.