



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



**Report Number:** 23-013711/D002.R000  
**Report Date:** 11/28/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 11/20/23 13:32

**Customer:** Healthy Roots  
**Product identity:** Paw Butter  
**Client/Metric ID:** .  
**Laboratory ID:** 23-013711-0001

## Summary

### Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per Serving Size 1310 mg/100g
CBC	0.0306		%		
CBD	1.31		%		
CBDV	0.00686		%		THC-Total per Serving Size 16.3 mg/100g
CBG	0.00513		%		
CBN	0.00345		%		(Reported in milligrams per serving)
CBT	0.00632		%		
Δ9-THC	0.0163		%		
Analyte per 100g	Result	Limits	Units	Status	
CBC per 100g	30.6		mg/100g		
CBD per 100g	1310		mg/100g		
CBDV per 100g	6.86		mg/100g		
CBG per 100g	5.13		mg/100g		
CBN per 100g	3.45		mg/100g		
CBT per 100g	6.32		mg/100g		
Δ9-THC per 100g	16.3		mg/100g		



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**Customer:** Healthy Roots  
**Product identity:** Paw Butter  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 23-013711-0001  
**Evidence of Cooling:** No  
**Temp:** 19.1 °C  
**Relinquished by:** client  
**Serving Size #1:** 100 g

### Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod)		Units %	Batch: 2313071	Analyze: 11/22/23 7:58:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0306		%	0.00330	
CBC-A	< LOQ		%	0.00330	
CBC-Total	0.0306		%	0.00619	
CBD <sup>±</sup>	1.31		%	0.0330	
CBD-A <sup>±</sup>	< LOQ		%	0.00330	
CBD-Total	1.31		%	0.0359	
CBDV	0.00686		%	0.00330	
CBDV-A	< LOQ		%	0.00330	
CBDV-Total	0.00686		%	0.00615	
CBE	< LOQ		%	0.00330	
CBG	0.00513		%	0.00330	
CBG-A	< LOQ		%	0.00330	
CBG-Total	< LOQ		%	0.00615	
CBL	< LOQ		%	0.00330	
CBL-A	< LOQ		%	0.00330	
CBL-Total	< LOQ		%	0.00619	
CBN	0.00345		%	0.00330	
CBT	0.00632		%	0.00330	
Δ8-THCV	< LOQ		%	0.00330	
Δ10-THC-9R	< LOQ		%	0.00330	
Δ10-THC-9S	< LOQ		%	0.00330	
Δ10-THC-Total	< LOQ		%	0.00659	
Δ8-THC <sup>±</sup>	< LOQ		%	0.00330	
Δ9-THC <sup>±</sup>	0.0163		%	0.00330	
delta-9-THCP	< LOQ		%	0.00330	
exo-THC	< LOQ		%	0.00330	
THC-A <sup>±</sup>	< LOQ		%	0.00330	
THC-Total	0.0163		%	0.00619	
THCV	< LOQ		%	0.00330	
THCV-A	< LOQ		%	0.00330	
THCV-Total	< LOQ		%	0.00615	
<b>Total Cannabinoids</b>	<b>1.38</b>		%		



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Potency per 100g      **Method:** J AOAC 2015 V98-6 (mod)      **Units** mg/se **Batch:** 2313071      **Analyze:** 11/22/23 7:58:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 100g	30.6		mg/100g	3.30	
CBC-A per 100g	< LOQ		mg/100g	3.30	
CBC-Total per 100g	30.6		mg/100g	6.19	
CBD per 100g	1310		mg/100g	33.0	
CBD-A per 100g <sup>±</sup>	< LOQ		mg/100g	3.30	
CBD-Total per 100g <sup>±</sup>	1310		mg/100g	35.9	
CBDV per 100g	6.86		mg/100g	3.30	
CBDV-A per 100g	< LOQ		mg/100g	3.30	
CBDV-Total per 100g	6.86		mg/100g	6.15	
CBE per 100g	< LOQ		mg/100g	3.30	
CBG per 100g	5.13		mg/100g	3.30	
CBG-A per 100g	< LOQ		mg/100g	3.30	
CBG-Total per 100g	< LOQ		mg/100g	6.15	
CBL per 100g	< LOQ		mg/100g	3.30	
CBL-A per 100g	< LOQ		mg/100g	3.30	
CBL-Total per 100g	< LOQ		mg/100g	6.19	
CBN per 100g	3.45		mg/100g	3.30	
CBT per 100g	6.32		mg/100g	3.30	
Δ8-THCV per 100g	< LOQ		mg/100g	3.30	
Δ10-THC-9R per 100g	< LOQ		mg/100g	3.30	
Δ10-THC-9S per 100g	< LOQ		mg/100g	3.30	
Δ10-THC-Total per 100g	< LOQ		mg/100g	6.59	
Δ8-THC per 100g <sup>±</sup>	< LOQ		mg/100g	3.30	
Δ9-THC per 100g <sup>±</sup>	16.3		mg/100g	3.30	
delta-9-THCP per 100g	< LOQ		mg/100g	3.30	
exo-THC per 100g	< LOQ		mg/100g	3.30	
THC-A per 100g <sup>±</sup>	< LOQ		mg/100g	3.30	
THC-Total per 100g	16.3		mg/100g	6.19	
THCV per 100g	< LOQ		mg/100g	3.30	
THCV-A per 100g	< LOQ		mg/100g	3.30	
THCV-Total per 100g	< LOQ		mg/100g	6.19	
Total Cannabinoids per 100g	1380		mg/100g		



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#### **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.

Ⓟ = ISO/IEC 17025:2017 accredited method.

Ⓜ = TNI accredited analyte.

#### **Units of Measure**

g = g

mg/100g = Milligram per 100g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



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Revision: 4 Document ID: 7148  
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2313071

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	2	0.0317	0.0329	%	96.5	80.0 - 120	Acceptable		
CBDV	2	0.0317	0.0324	%	97.9	80.0 - 120	Acceptable		
CBE	2	0.0335	0.0349	%	95.9	80.0 - 120	Acceptable		
CBDA	1	0.0287	0.0311	%	92.2	90.0 - 110	Acceptable		
CBGA	1	0.0300	0.0313	%	95.9	80.0 - 120	Acceptable		
CBG	1	0.0319	0.0332	%	96.3	80.0 - 120	Acceptable		
CBD	1	0.0303	0.0319	%	95.1	90.0 - 110	Acceptable		
THCV	2	0.0324	0.0337	%	95.9	80.0 - 120	Acceptable		
d8THCV	2	0.0263	0.0271	%	97.2	80.0 - 120	Acceptable		
THCVA	2	0.0307	0.0317	%	96.6	80.0 - 120	Acceptable		
CBN	1	0.0323	0.0332	%	97.2	80.0 - 120	Acceptable		
exo-THC	2	0.0295	0.0308	%	95.7	80.0 - 120	Acceptable		
d9THC	1	0.0323	0.0320	%	101	90.0 - 110	Acceptable		
d8THC	1	0.0259	0.0277	%	93.5	90.0 - 110	Acceptable		
9S-d10THC	1	0.0321	0.0328	%	97.9	80.0 - 120	Acceptable		
CBL	2	0.0330	0.0351	%	93.9	80.0 - 120	Acceptable		
9R-d10THC	1	0.0301	0.0314	%	96.0	80.0 - 120	Acceptable		
CBC	2	0.0332	0.0341	%	97.5	80.0 - 120	Acceptable		
THCA	1	0.0293	0.0303	%	96.9	90.0 - 110	Acceptable		
CBCA	2	0.0322	0.0336	%	95.8	80.0 - 120	Acceptable		
CBLA	2	0.0322	0.0336	%	95.8	80.0 - 120	Acceptable		
d9THCP	2	0.0316	0.0331	%	95.4	80.0 - 120	Acceptable		
CBT	2	0.0333	0.0337	%	98.6	80.0 - 120	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBDV	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBE	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBDA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBGA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBG	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBD	<LOQ	0.00322	%	< 0.00322	Acceptable	
THCV	<LOQ	0.00322	%	< 0.00322	Acceptable	
d8THCV	<LOQ	0.00322	%	< 0.00322	Acceptable	
THCVA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBN	<LOQ	0.00322	%	< 0.00322	Acceptable	
exo-THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
d9THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
d8THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
9S-d10THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBL	<LOQ	0.00322	%	< 0.00322	Acceptable	
9R-d10THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBC	<LOQ	0.00322	%	< 0.00322	Acceptable	
THCA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBCA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBLA	<LOQ	0.00322	%	< 0.00322	Acceptable	
d9THCP	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBT	<LOQ	0.00322	%	< 0.00322	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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Revision: 4 Document ID: 7148  
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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2313071						
Sample Duplicate		Sample ID: 23-013683-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
CBD	0.131	0.126	0.00331	%	4.26	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00331	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00331	%	NA	< 20	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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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.