



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



Report Number: 24-006061/D001.R000
Report Date: 06/11/2024
ORELAP#: OR100028
Purchase Order:
Received: 06/04/24 09:31

Customer: Healthy Roots
Product identity: 2000 MG Root Butter
Client/Metric ID: .
Laboratory ID: 24-006061-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per Serving Size	1960 mg/50g
CBC	0.0309		%			
CBD	3.91		%			
CBDV	0.0147		%		Delta-9-THC-Total per	12.5 mg/50g
CBG	0.00804		%		(Reported in milligrams per serving)	
CBN	0.00374		%			
CBT	0.0110		%			
Δ9-THC	0.0250		%			
Analyte per 50g	Result	Limits	Units	Status		
CBC per 50g	15.5		mg/50g			
CBD per 50g	1960		mg/50g			
CBDV per 50g	7.35		mg/50g			
CBG per 50g	4.02		mg/50g			
CBN per 50g	1.87		mg/50g			
CBT per 50g	5.50		mg/50g			
Δ9-THC per 50g	12.5		mg/50g			



Customer: Healthy Roots
 14325 NE Airport Way
 Portland Oregon 97230
 United States of America (USA)

Product identity: 2000 MG Root Butter

Client/Metric ID: .

Sample Date:

Laboratory ID: 24-006061-0001

Evidence of Cooling: No

Temp: 20.7 °C

Serving Size #1: 50 g

Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) ^b			Units %	Batch: 2404387	Analyze: 6/7/24 11:24:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC	0.0309		%	0.00313		
CBC-A	< LOQ		%	0.00313		
CBC-Total	0.0309		%	0.00587		
CBD [±]	3.91		%	0.0313		
CBD-A [±]	< LOQ		%	0.00313		
CBD-Total [±]	3.91		%	0.0340		
CBDV	0.0147		%	0.00313		
CBDV-A	< LOQ		%	0.00313		
CBDV-Total	0.0147		%	0.00584		
CBE	< LOQ		%	0.00313		
CBG	0.00804		%	0.00313		
CBG-A	< LOQ		%	0.00313		
CBG-Total	0.00804		%	0.00584		
CBL	< LOQ		%	0.00313		
CBL-A	< LOQ		%	0.00313		
CBL-Total	< LOQ		%	0.00587		
CBN	0.00374		%	0.00313		
CBT	0.0110		%	0.00313		
Δ10-THC-9R	< LOQ		%	0.00313		
Δ10-THC-9S	< LOQ		%	0.00313		
Δ10-THC-Total	< LOQ		%	0.00625		
Δ8-THC [±]	< LOQ		%	0.00313		
Δ8-THCV	< LOQ		%	0.00313		
Δ9-THC [±]	0.0250		%	0.00313		
Δ9-THC-A [±]	< LOQ		%	0.00313		
Δ9-THC-Total [±]	0.0250		%	0.00587		
Δ9-THCP	< LOQ		%	0.00313		
Δ9-THCV	< LOQ		%	0.00313		
Δ9-THCV-A	< LOQ		%	0.00313		
Δ9-THCV-Total	< LOQ		%	0.00584		
exo-THC	< LOQ		%	0.00313		



Potency	Method: J AOAC 2015 V98-6 (mod) ^b	Units %	Batch: 2404387	Analyze: 6/7/24 11:24:00 PM
---------	--	---------	----------------	-----------------------------

Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids	4.00		%		

Potency per 50g	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2404387	Analyze: 6/7/24 11:24:00 PM
-----------------	--	-------------	----------------	-----------------------------

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 50g	15.5		mg/50g	1.56	
CBC-A per 50g	< LOQ		mg/50g	1.56	
CBC-Total per 50g	15.5		mg/50g	2.94	
CBD per 50g	1960		mg/50g	15.6	
CBD-A per 50g ¹	< LOQ		mg/50g	1.56	
CBD-Total per 50g ¹	1960		mg/50g	17.0	
CBDV per 50g	7.35		mg/50g	1.56	
CBDV-A per 50g	< LOQ		mg/50g	1.56	
CBDV-Total per 50g	7.35		mg/50g	2.92	
CBE per 50g	< LOQ		mg/50g	1.56	
CBG per 50g	4.02		mg/50g	1.56	
CBG-A per 50g	< LOQ		mg/50g	1.56	
CBG-Total per 50g	4.02		mg/50g	2.92	
CBL per 50g	< LOQ		mg/50g	1.56	
CBL-A per 50g	< LOQ		mg/50g	1.56	
CBL-Total per 50g	< LOQ		mg/50g	2.94	
CBN per 50g	1.87		mg/50g	1.56	
CBT per 50g	5.50		mg/50g	1.56	
Δ10-THC-9R per 50g	< LOQ		mg/50g	1.56	
Δ10-THC-9S per 50g	< LOQ		mg/50g	1.56	
Δ10-THC-Total per 50g	< LOQ		mg/50g	3.13	
Δ8-THC per 50g ¹	< LOQ		mg/50g	1.56	
Δ8-THCV per 50g	< LOQ		mg/50g	1.56	
Δ9-THC per 50g ¹	12.5		mg/50g	1.56	
Δ9-THC-Total per 50g	12.5		mg/50g	2.94	
Δ9-THCP per 50g	< LOQ		mg/50g	1.56	
Δ9-THCV per 50g	< LOQ		mg/50g	1.56	
Δ9-THCV-A per 50g	< LOQ		mg/50g	1.56	
Δ9-THCV-Total per 50g	< LOQ		mg/50g	2.94	
exo-THC per 50g	< LOQ		mg/50g	1.56	
THC-A per 50g ¹	< LOQ		mg/50g	1.56	
Total Cannabinoids per 50g	2000		mg/50g		



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



Report Number: 24-006061/D001.R000
Report Date: 06/11/2024
ORELAP#: OR100028
Purchase Order:
Received: 06/04/24 09:31

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 = Gram

mg/50g = Milligram per 50g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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



Report Number: 24-006061/D001.R000
Report Date: 06/11/2024
ORELAP#: OR100028
Purchase Order:
Received: 06/04/24 09:31



Hemp & Cannabis
Chain of Custody

Healthy-Roots-Hemp-
Products-1717514177

ORELAP ID: OR100028 ANAB ISO 17025 ID: AT1508

							Testing
Company Details Company: <u>Healthy Roots Hemp Products</u> Contact: <u>Liz Cardoza</u> Street Address: <u>21563 SCrestview Drive</u> City, State, Zip: <u>Oregon City, OR 97045</u> Email: <u>Liz@healthrootshemp.com</u> Email, CC: <u>Alaincardoza3@gmail.com</u> Contact Phone: <u>503-496-2329</u> Company Phone: <u>503-496-2329</u> Billing Information Billing Phone: <u>503-496-2329</u> Billing Email: <u>Liz@healthrootshemp.com</u>				Project Details Turnaround Time: <u>5 Business Days Req. For Micro Testing Standard</u> Relinquishment Sampling, Courier & Shipping Options: <u>Drop Off at Laboratory</u> Compliance: <u>Compliance</u> Receipt Information Pre-Log Storage: <u>Canna Shelves</u> Sample Condition: <u>Satisfactory</u>			H0010 - Potency Cannabis (Basic+Expanded)
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size	Additional Test Requests and Sample Comments	
1	2000 MG Root Butter	Cannabinoid Topical	7 g	mg/g & mg/serving	50 g	Report in MG and Percentage	✓

Relinquished By	Date	Time	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
<i>Liz Cardoza</i>	<i>06/04/2024</i>	<i>08:16</i>	<i>ent</i>	<i>06/04/2024</i>	<i>09:31</i>	<i>20.70</i>	<i>No</i>

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of services](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories
12423 NE Whitaker Way
Portland, OR 97230

P: (503) 254-1794
info@columbialaboratories.com

Page 1 of 1
www.columbialaboratories.com


Laboratory Quality Control Results
J AOAC 2015 V98-6 **Batch ID: 2404387**
Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDA	2	0.0275	0.0281	%	97.8	80.0 - 120	Acceptable	
CBV	2	0.0340	0.0326	%	104	80.0 - 120	Acceptable	
CB	2	0.0311	0.0321	%	97.0	80.0 - 120	Acceptable	
CBDA	1	0.0298	0.0304	%	98.1	90.0 - 110	Acceptable	
CBGA	1	0.0291	0.0301	%	96.7	80.0 - 120	Acceptable	
CBG	1	0.0286	0.0296	%	96.7	80.0 - 120	Acceptable	
CB	1	0.0310	0.0320	%	96.8	90.0 - 110	Acceptable	
THCV	2	0.0322	0.0327	%	98.4	80.0 - 120	Acceptable	
d8THCV	2	0.0315	0.0317	%	99.3	80.0 - 120	Acceptable	
THCVA	2	0.0301	0.0306	%	98.3	80.0 - 120	Acceptable	
CBN	1	0.0293	0.0301	%	97.3	80.0 - 120	Acceptable	
exo-THC	2	0.0312	0.0316	%	98.6	80.0 - 120	Acceptable	
d9THC	1	0.0314	0.0319	%	98.3	90.0 - 110	Acceptable	
d8THC	1	0.0306	0.0312	%	98.0	90.0 - 110	Acceptable	
9Sa10THC	1	0.0306	0.0313	%	97.6	80.0 - 120	Acceptable	
CB	2	0.0287	0.0285	%	101	80.0 - 120	Acceptable	
9Ra10THC	1	0.0294	0.0335	%	87.6	80.0 - 120	Acceptable	
CB	2	0.0294	0.0306	%	96.3	80.0 - 120	Acceptable	
THCA	1	0.0288	0.0301	%	95.9	90.0 - 110	Acceptable	
CBGA	2	0.0310	0.0315	%	98.3	80.0 - 120	Acceptable	
CBGA	2	0.0316	0.0321	%	98.5	80.0 - 120	Acceptable	
d9THCP	2	0.0304	0.0312	%	97.3	80.0 - 120	Acceptable	
CB	2	0.0310	0.0319	%	97.3	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBV	<LOQ	0.00325	%	< 0.00325	Acceptable	
CB	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBDA	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBGA	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBG	<LOQ	0.00325	%	< 0.00325	Acceptable	
CB	<LOQ	0.00325	%	< 0.00325	Acceptable	
THCV	<LOQ	0.00325	%	< 0.00325	Acceptable	
d8THCV	<LOQ	0.00325	%	< 0.00325	Acceptable	
THCVA	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBN	<LOQ	0.00325	%	< 0.00325	Acceptable	
exo-THC	<LOQ	0.00325	%	< 0.00325	Acceptable	
d9THC	<LOQ	0.00325	%	< 0.00325	Acceptable	
d8THC	<LOQ	0.00325	%	< 0.00325	Acceptable	
9Sa10THC	<LOQ	0.00325	%	< 0.00325	Acceptable	
CB	<LOQ	0.00325	%	< 0.00325	Acceptable	
9Ra10THC	<LOQ	0.00325	%	< 0.00325	Acceptable	
CB	<LOQ	0.00325	%	< 0.00325	Acceptable	
THCA	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBGA	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBGA	<LOQ	0.00325	%	< 0.00325	Acceptable	
d9THCP	<LOQ	0.00325	%	< 0.00325	Acceptable	
CB	<LOQ	0.00325	%	< 0.00325	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent


Laboratory Quality Control Results

J AOAC 2015 V98-6			Batch ID: 2404387					
Sample Duplicate			Sample ID: 24-006059-0001					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBV	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBG	0.00373	<LOQ	0.00328	%	NA	< 20	Acceptable	R2
CB	0.583	0.578	0.00328	%	0.800	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
d8THCV	0.0151	0.0146	0.00328	%	3.45	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBN	0.0113	0.0113	0.00328	%	0.512	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
d9THC	0.220	0.210	0.00328	%	4.86	< 20	Acceptable	
d8THC	1.39	1.40	0.00328	%	0.716	< 20	Acceptable	
9Sd10THC	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
9Rd10THC	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CB	0.0289	0.0285	0.00328	%	1.38	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CB	0.00930	0.00946	0.00328	%	1.77	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL

RPD - Relative Percent Difference

LOQ - Limit of Quantitation

R2 - Sample replicates RPD non-calculable, as only one replicate is within analytical range.

Units of Measure:

% - Percent



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



Report Number: 24-006061/D001.R000
Report Date: 06/11/2024
ORELAP#: OR100028
Purchase Order:
Received: 06/04/24 09:31





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.