



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



**Report Number:** 24-005117/D001.R000  
**Report Date:** 05/16/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/09/24 16:35

**Customer:** Healthy Roots  
**Product identity:** 1600 mg Deep Relief Lotion  
**Client/Metric ID:** .  
**Laboratory ID:** 24-005117-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBC	0.0195		%		CBD-Total per Serving Size 1650 mg/128g
CBD	1.29		%		
CBDV	0.00385		%		Delta-9-THC-Total per 17.2 mg/128g
CBG	0.00399		%		
CBT	0.00627		%		(Reported in milligrams per serving)
Δ9-THC	0.0134		%		
Analyte per 128g	Result	Limits	Units	Status	
CBC per 128g	25.0		mg/128g		
CBD per 128g	1650		mg/128g		
CBDV per 128g	4.93		mg/128g		
CBG per 128g	5.11		mg/128g		
CBT per 128g	8.03		mg/128g		
Δ9-THC per 128g	17.2		mg/128g		



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

**Product identity:** 1600 mg Deep Relief Lotion

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 24-005117-0001

**Evidence of Cooling:** No

**Temp:** 26.1 °C

**Serving Size #1:** 128 g

### Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>			Units %	Batch: 2403706	Analyze: 5/15/24 12:12:00 AM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC	0.0195		%	0.00304		
CBC-A	< LOQ		%	0.00304		
CBC-Total	0.0195		%	0.00571		
CBD <sup>±</sup>	1.29		%	0.0304		
CBD-A <sup>±</sup>	< LOQ		%	0.00304		
CBD-Total <sup>±</sup>	1.29		%	0.0331		
CBDV	0.00385		%	0.00304		
CBDV-A	< LOQ		%	0.00304		
CBDV-Total	< LOQ		%	0.00568		
CBE	< LOQ		%	0.00304		
CBG	0.00399		%	0.00304		
CBG-A	< LOQ		%	0.00304		
CBG-Total	< LOQ		%	0.00568		
CBL	< LOQ		%	0.00304		
CBL-A	< LOQ		%	0.00304		
CBL-Total	< LOQ		%	0.00571		
CBN	< LOQ		%	0.00304		
CBT	0.00627		%	0.00304		
Δ10-THC-9R	< LOQ		%	0.00304		
Δ10-THC-9S	< LOQ		%	0.00304		
Δ10-THC-Total	< LOQ		%	0.00608		
Δ8-THC <sup>±</sup>	< LOQ		%	0.00304		
Δ8-THCV	< LOQ		%	0.00304		
Δ9-THC <sup>±</sup>	0.0134		%	0.00304		
Δ9-THC-A <sup>±</sup>	< LOQ		%	0.00304		
Δ9-THC-Total <sup>±</sup>	0.0134		%	0.00571		
Δ9-THCP	< LOQ		%	0.00304		
Δ9-THCV	< LOQ		%	0.00304		
Δ9-THCV-A	< LOQ		%	0.00304		
Δ9-THCV-Total	< LOQ		%	0.00568		
exo-THC	< LOQ		%	0.00304		



Potency	Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>	Units %	Batch: 2403706	Analyze: 5/15/24 12:12:00 AM
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Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids	1.34		%		

Potency per 128g	Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>	Units mg/se	Batch: 2403706	Analyze: 5/15/24 12:12:00 AM
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Analyte	Result	Limits	Units	LOQ	Notes
CBC per 128g	25.0		mg/128g	3.89	
CBC-A per 128g	< LOQ		mg/128g	3.89	
CBC-Total per 128g	25.0		mg/128g	7.31	
CBD per 128g	1650		mg/128g	38.9	
CBD-A per 128g <sup>+</sup>	< LOQ		mg/128g	3.89	
CBD-Total per 128g <sup>+</sup>	1650		mg/128g	42.4	
CBDV per 128g	4.93		mg/128g	3.89	
CBDV-A per 128g	< LOQ		mg/128g	3.89	
CBDV-Total per 128g	< LOQ		mg/128g	7.27	
CBE per 128g	< LOQ		mg/128g	3.89	
CBG per 128g	5.11		mg/128g	3.89	
CBG-A per 128g	< LOQ		mg/128g	3.89	
CBG-Total per 128g	< LOQ		mg/128g	7.27	
CBL per 128g	< LOQ		mg/128g	3.89	
CBL-A per 128g	< LOQ		mg/128g	3.89	
CBL-Total per 128g	< LOQ		mg/128g	7.31	
CBN per 128g	< LOQ		mg/128g	3.89	
CBT per 128g	8.03		mg/128g	3.89	
Δ10-THC-9R per 128g	< LOQ		mg/128g	3.89	
Δ10-THC-9S per 128g	< LOQ		mg/128g	3.89	
Δ10-THC-Total per 128g	< LOQ		mg/128g	7.79	
Δ8-THC per 128g <sup>+</sup>	< LOQ		mg/128g	3.89	
Δ8-THCV per 128g	< LOQ		mg/128g	3.89	
Δ9-THC per 128g <sup>+</sup>	17.2		mg/128g	3.89	
Δ9-THC-Total per 128g	17.2		mg/128g	7.31	
Δ9-THCP per 128g	< LOQ		mg/128g	3.89	
Δ9-THCV per 128g	< LOQ		mg/128g	3.89	
Δ9-THCV-A per 128g	< LOQ		mg/128g	3.89	
Δ9-THCV-Total per 128g	< LOQ		mg/128g	7.31	
exo-THC per 128g	< LOQ		mg/128g	3.89	
THC-A per 128g <sup>+</sup>	< LOQ		mg/128g	3.89	
Total Cannabinoids per 128g	1710		mg/128g		



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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 = Gram

mg/128g = Milligram per 128g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



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**Hemp & Cannabis  
Chain of Custody**

**Healthy-Roots-Hemp-  
Products-T75294701**

ORELAP ID: **OR1000028** ANAB ISO 17025 ID: **AT1508**

<b>Company Details</b> Company: <u>HealthyRootsHempProducts</u> Contact: <u>LizCardoza</u> Street Address: <u>21563 S Crestview Drive</u> City, State, Zip: <u>Oregon City, OR 97045</u> Email: <u>Liz@healthyrootshemp.com</u> Email, CC: <u>Alaincardoza3@gmail.com</u> Contact Phone: <u>503-496-2329</u> Company Phone: <u>503-496-2329</u>  <b>Billing Information</b> Billing Phone: <u>503-496-2329</u> Billing Email: <u>Liz@healthyrootshemp.com</u>				<b>Project Details</b> Turnaround Time: <u>5 Business Days   Reg. For Micro Testing   Standard</u> Relinquishment   Sampling, Courier & Shipping Options: <u>Drop Off at Laboratory</u> Compliance: <u>Compliance</u>  <b>Receipt Information</b> Pre-Log Storage: <u>Canna Shelves</u> Sample Condition: <u>Satisfactory</u>			Testing  H10010 - Potency Cannabis (Basic+Expanded)
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size	Additional Test Requests and Sample Comments	
1	1600 mg Deep Relief Lotion	Cannabinoid Topical	1g	mg/g & mg/serving	128 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>05/09/2024</i>	<i>15:45</i>	<i>cmt</i>	<i>05/09/2024</i>	<i>16:35</i>	<i>26.10</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 CCC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories  
12423 NE Whitaker Way  
Portland, OR 97230

P: (503) 254-1794  
[info@columbiaboratories.com](mailto:info@columbiaboratories.com)

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[www.columbiaboratories.com](http://www.columbiaboratories.com)


**Laboratory Quality Control Results**

J AOAC 2015 V98-6									
Batch ID: 2403706									
Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	2	0.0348	0.0358	%	97.2	80.0 - 120	Acceptable		
CBDV	2	0.0342	0.0340	%	101	80.0 - 120	Acceptable		
CBE	2	0.0304	0.0315	%	96.3	80.0 - 120	Acceptable		
CBDA	1	0.0299	0.0309	%	96.9	90.0 - 110	Acceptable		
CBGA	1	0.0295	0.0304	%	97.2	80.0 - 120	Acceptable		
CBG	1	0.0333	0.0344	%	96.8	80.0 - 120	Acceptable		
CBD	1	0.0323	0.0335	%	96.6	90.0 - 110	Acceptable		
THCV	2	0.0331	0.0336	%	98.5	80.0 - 120	Acceptable		
d8THCV	2	0.0346	0.0360	%	96.2	80.0 - 120	Acceptable		
THCVA	2	0.0310	0.0318	%	97.5	80.0 - 120	Acceptable		
CBN	1	0.0314	0.0320	%	98.2	80.0 - 120	Acceptable		
exo-THC	2	0.0325	0.0331	%	98.1	80.0 - 120	Acceptable		
d9THC	1	0.0319	0.0324	%	98.5	90.0 - 110	Acceptable		
d8THC	1	0.0319	0.0323	%	98.7	90.0 - 110	Acceptable		
9S-d10THC	1	0.0316	0.0322	%	98.0	80.0 - 120	Acceptable		
CBL	2	0.0310	0.0331	%	93.9	80.0 - 120	Acceptable		
9R-d10THC	1	0.0306	0.0314	%	97.5	80.0 - 120	Acceptable		
CBC	2	0.0338	0.0349	%	96.9	80.0 - 120	Acceptable		
THCA	1	0.0295	0.0304	%	97.0	90.0 - 110	Acceptable		
CBCA	2	0.0317	0.0336	%	94.1	80.0 - 120	Acceptable		
CBLA	2	0.0325	0.0339	%	96.0	80.0 - 120	Acceptable		
d9THCP	2	0.0312	0.0324	%	96.3	80.0 - 120	Acceptable		
CBT	2	0.0342	0.0351	%	97.4	80.0 - 120	Acceptable		

**Method Blank**

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes	
CBDVA	<LOQ	0.00307	%	< 0.00307	Acceptable		
CBDV	<LOQ	0.00307	%	< 0.00307	Acceptable		
CBE	<LOQ	0.00307	%	< 0.00307	Acceptable		
CBDA	<LOQ	0.00307	%	< 0.00307	Acceptable		
CBGA	<LOQ	0.00307	%	< 0.00307	Acceptable		
CBG	<LOQ	0.00307	%	< 0.00307	Acceptable		
CBD	<LOQ	0.00307	%	< 0.00307	Acceptable		
THCV	<LOQ	0.00307	%	< 0.00307	Acceptable		
d8THCV	<LOQ	0.00307	%	< 0.00307	Acceptable		
THCVA	<LOQ	0.00307	%	< 0.00307	Acceptable		
CBN	<LOQ	0.00307	%	< 0.00307	Acceptable		
exo-THC	<LOQ	0.00307	%	< 0.00307	Acceptable		
d9THC	<LOQ	0.00307	%	< 0.00307	Acceptable		
d8THC	<LOQ	0.00307	%	< 0.00307	Acceptable		
9S-d10THC	<LOQ	0.00307	%	< 0.00307	Acceptable		
CBL	<LOQ	0.00307	%	< 0.00307	Acceptable		
9R-d10THC	<LOQ	0.00307	%	< 0.00307	Acceptable		
CBC	<LOQ	0.00307	%	< 0.00307	Acceptable		
THCA	<LOQ	0.00307	%	< 0.00307	Acceptable		
CBCA	<LOQ	0.00307	%	< 0.00307	Acceptable		
CBLA	<LOQ	0.00307	%	< 0.00307	Acceptable		
d9THCP	<LOQ	0.00307	%	< 0.00307	Acceptable		
CBT	<LOQ	0.00307	%	< 0.00307	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: 2403706					
Sample Duplicate			Sample ID: 24-005068-0001					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBDV	0.0249	0.0248	0.00329	%	0.477	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBD	9.41	9.41	0.00329	%	0.0216	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00329	%	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.