



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



**Report Number:** 22-002191/D002.R000  
**Report Date:** 03/03/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 02/25/22 23:00

**Customer:** Healthy Roots  
**Product identity:** #196, 50mg Deep Relief  
**Client/Metric ID:** .  
**Laboratory ID:** 22-002191-0001

## Summary

### Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 8g	51.3 mg/8g
CBC	0.0233		%			
CBD	0.637		%			
CBD-A	0.00526		%		THC-Total per 8g	0.684 mg/8g
Δ9-THC	0.00855		%			
					(Reported in milligrams per serving)	
Analyte per 8g	Result	Limits	Units	Status		
CBC per 8g <sup>†</sup>	1.86		mg/8g			
CBD per 8g	51.0		mg/8g			
CBD-A per 8g	0.421		mg/8g			
Δ9-THC per 8g	0.684		mg/8g			



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**Customer:** Healthy Roots  
**Product identity:** #196, 50mg Deep Relief  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 22-002191-0001  
**Evidence of Cooling:** No  
**Temp:** 22.6 °C  
**Relinquished by:** Client  
**Serving Size #1:** 8 g

### Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2201786	Analyze: 3/1/22	11:56:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0233		%	0.0032	
CBC-A†	< LOQ		%	0.0032	
CBC-Total†	0.0233		%	0.0060	
CBD	0.637		%	0.0032	
CBD-A	0.00526		%	0.0032	
CBD-Total	0.642		%	0.0060	
CBDV†	< LOQ		%	0.0032	
CBDV-A†	< LOQ		%	0.0032	
CBDV-Total†	< LOQ		%	0.0060	
CBE†	< LOQ		%	0.0032	
CBG†	< LOQ		%	0.0032	
CBG-A†	< LOQ		%	0.0032	
CBG-Total	< LOQ		%	0.0060	
CBL†	< LOQ		%	0.0032	
CBL-A†	< LOQ		%	0.0032	
CBL-Total†	< LOQ		%	0.0060	
CBN	< LOQ		%	0.0032	
CBT†	< LOQ		%	0.0032	
Δ8-THCV	< LOQ		%	0.0032	
Δ8-THC†	< LOQ		%	0.0032	
Δ9-THC	0.00855		%	0.0032	
THC-A	< LOQ		%	0.0032	
THC-Total	0.00855		%	0.0060	
THCV†	< LOQ		%	0.0032	
THCV-A†	< LOQ		%	0.0032	
THCV-Total†	< LOQ		%	0.0060	
Total Cannabinoids†	0.674		%		

Potency per 8g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2201786	Analyze: 3/1/22	11:56:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 8g†	1.86		mg/8g	0.258	
CBC-A per 8g†	< LOQ		mg/8g	0.258	
CBC-Total per 8g†	1.86		mg/8g	0.484	



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Potency per 8g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2201786 Analyze: 3/1/22 11:56:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 8g	51.0		mg/8g	0.258	
CBD-A per 8g	0.421		mg/8g	0.258	
CBD-Total per 8g	51.3		mg/8g	0.484	
CBDV per 8g†	< LOQ		mg/8g	0.258	
CBDV-A per 8g†	< LOQ		mg/8g	0.258	
CBDV-Total per 8g†	< LOQ		mg/8g	0.481	
CBE per 8g†	< LOQ		mg/8g	0.258	
CBG per 8g†	< LOQ		mg/8g	0.258	
CBG-A per 8g†	< LOQ		mg/8g	0.258	
CBG-Total per 8g†	< LOQ		mg/8g	0.481	
CBL per 8g†	< LOQ		mg/8g	0.258	
CBL-A per 8g†	< LOQ		mg/8g	0.258	
CBL-Total per 8g†	< LOQ		mg/8g	0.484	
CBN per 8g	< LOQ		mg/8g	0.258	
CBT per 8g†	< LOQ		mg/8g	0.258	
Δ8-THCV per 8g†	< LOQ		mg/8g	0.258	
Δ8-THC per 8g†	< LOQ		mg/8g	0.258	
Δ9-THC per 8g	0.684		mg/8g	0.258	
exo-THC per 8g†	< LOQ		mg/8g	0.258	
THC-A per 8g	< LOQ		mg/8g	0.258	
THC-Total per 8g	0.684		mg/8g	0.484	
THCV per 8g†	< LOQ		mg/8g	0.258	
THCV-A per 8g†	< LOQ		mg/8g	0.258	
THCV-Total per 8g†	< LOQ		mg/8g	0.484	
Total Cannabinoids per 8g	53.9		mg/8g		



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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.

† = Analyte not NELAP accredited.

**Units of Measure**

g = Gram

mg/8g = Milligram per 8g

% = Percentage of sample

% wt = µg/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

JAOAC2015 V986

Batch ID: 2201786

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDA	0.00925	0.01	%	92.5	85.0 - 115	Acceptable	
CBV	0.0108	0.01	%	108	85.0 - 115	Acceptable	
CBE	0.00891	0.01	%	89.1	85.0 - 115	Acceptable	
CBDA	0.0100	0.01	%	100	85.0 - 115	Acceptable	
CBGA	0.00924	0.01	%	92.4	85.0 - 115	Acceptable	
CBG	0.00958	0.01	%	95.8	85.0 - 115	Acceptable	
CB	0.0100	0.01	%	100	85.0 - 115	Acceptable	
THCV	0.00958	0.01	%	95.8	85.0 - 115	Acceptable	
d8THCV	0.00947	0.01	%	94.7	85.0 - 115	Acceptable	
THCVA	0.00877	0.01	%	87.7	85.0 - 115	Acceptable	
CBN	0.0103	0.01	%	103	85.0 - 115	Acceptable	
exo-THC	0.00872	0.01	%	87.2	85.0 - 115	Acceptable	
d9THC	0.00990	0.01	%	99.0	85.0 - 115	Acceptable	
d8THC	0.00974	0.01	%	97.4	85.0 - 115	Acceptable	
CBL	0.00891	0.01	%	89.1	85.0 - 115	Acceptable	
CEC	0.0100	0.01	%	100	85.0 - 115	Acceptable	
THCA	0.00968	0.01	%	96.8	85.0 - 115	Acceptable	
CBGA	0.00933	0.01	%	93.3	85.0 - 115	Acceptable	
CBLA	0.00910	0.01	%	91.0	85.0 - 115	Acceptable	
CBF	0.0103	0.01	%	103	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	< LOQ	0.003	%	< 0.003	Acceptable	
CBV	< LOQ	0.003	%	< 0.003	Acceptable	
CBE	< LOQ	0.003	%	< 0.003	Acceptable	
CBDA	< LOQ	0.003	%	< 0.003	Acceptable	
CBGA	< LOQ	0.003	%	< 0.003	Acceptable	
CBG	< LOQ	0.003	%	< 0.003	Acceptable	
CB	< 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	
CEC	< LOQ	0.003	%	< 0.003	Acceptable	
THCA	< LOQ	0.003	%	< 0.003	Acceptable	
CBGA	< LOQ	0.003	%	< 0.003	Acceptable	
CBLA	< LOQ	0.003	%	< 0.003	Acceptable	
CBF	< 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 V986							
Batch ID: 2201786							
Sample Duplicate							
Sample ID: 22-002095-0001							
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable
CBDV	0.113	0.114	0.003	%	0.403	< 20	Acceptable
CBE	0.162	0.163	0.003	%	0.462	< 20	Acceptable
CBD A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable
CBD A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable
CBD	0.0932	0.0926	0.003	%	0.696	< 20	Acceptable
CBD	17.0	17.1	0.003	%	0.794	< 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	0.0968	0.0972	0.003	%	0.332	< 20	Acceptable
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable
d9THC	0.0432	0.0432	0.003	%	0.0593	< 20	Acceptable
d8THC	0.00593	0.00457	0.003	%	25.8	< 20	Outlier
CBL	0.00919	0.00952	0.003	%	3.57	< 20	Acceptable
CBC	0.187	0.189	0.003	%	1.04	< 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
CBF	0.138	0.138	0.003	%	0.310	< 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.