



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



**Report Number:** 21-012273/D003.R000  
**Report Date:** 10/21/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/11/21 14:15

**Customer:** Healthy Roots  
**Product identity:** #4 Tropical Punch  
**Client/Metric ID:** .  
**Laboratory ID:** 21-012273-0001

### Summary

#### Potency:

Analyte	Result	Limits	Units	Status	
CBD	0.769		%		CBD-Total per 4g 30.8 mg/4g
Analyte per 4g	Result	Limits	Units	Status	
CBD per 4g	30.8		mg/4g		THC-Total per 4g <LOQ
(Reported in milligrams per serving)					



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**Customer:** Healthy Roots  
**Product identity:** #4 Tropical Punch  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 21-012273-0001  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** Client  
**Serving Size #1:** 4 g

### Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2109491	Analyze: 10/20/21 7:28:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.0032	
CBC-A <sup>†</sup>	< LOQ		%	0.0032	
CBC-Total <sup>†</sup>	< LOQ		%	0.0060	
CBD	0.769		%	0.0032	
CBD-A	< LOQ		%	0.0032	
CBD-Total	0.769		%	0.0060	
CBDV <sup>†</sup>	< LOQ		%	0.0032	
CBDV-A <sup>†</sup>	< LOQ		%	0.0032	
CBDV-Total <sup>†</sup>	< LOQ		%	0.0060	
CBE <sup>†</sup>	< LOQ		%	0.0032	
CBG <sup>†</sup>	< LOQ		%	0.0032	
CBG-A <sup>†</sup>	< LOQ		%	0.0032	
CBG-Total	< LOQ		%	0.0060	
CBL <sup>†</sup>	< LOQ		%	0.0032	
CBL-A <sup>†</sup>	< LOQ		%	0.0032	
CBL-Total <sup>†</sup>	< LOQ		%	0.0060	
CBN	< LOQ		%	0.0032	
CBT <sup>†</sup>	< LOQ		%	0.0032	
Δ8-THCV	< LOQ		%	0.0032	
Δ8-THC <sup>†</sup>	< LOQ		%	0.0032	
Δ9-THC	< LOQ		%	0.0032	
THC-A	< LOQ		%	0.0032	
THC-Total	< LOQ		%	0.0060	
THCV <sup>†</sup>	< LOQ		%	0.0032	
THCV-A <sup>†</sup>	< LOQ		%	0.0032	
THCV-Total <sup>†</sup>	< LOQ		%	0.0060	
<b>Total Cannabinoids<sup>†</sup></b>	<b>0.769</b>		%		

Potency per 4g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2109491	Analyze: 10/20/21 7:28:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g <sup>†</sup>	< LOQ		mg/4g	0.128	
CBC-A per 4g <sup>†</sup>	< LOQ		mg/4g	0.128	
CBC-Total per 4g <sup>†</sup>	< LOQ		mg/4g	0.240	



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Potency per 4g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2109491 Analyze: 10/20/21 7:28:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 4g	30.8		mg/4g	0.128	
CBD-A per 4g	< LOQ		mg/4g	0.128	
CBD-Total per 4g	30.8		mg/4g	0.240	
CBDV per 4g <sup>†</sup>	< LOQ		mg/4g	0.128	
CBDV-A per 4g <sup>†</sup>	< LOQ		mg/4g	0.128	
CBDV-Total per 4g <sup>†</sup>	< LOQ		mg/4g	0.238	
CBE per 4g <sup>†</sup>	< LOQ		mg/4g	0.128	
CBG per 4g <sup>†</sup>	< LOQ		mg/4g	0.128	
CBG-A per 4g <sup>†</sup>	< LOQ		mg/4g	0.128	
CBG-Total per 4g <sup>†</sup>	< LOQ		mg/4g	0.238	
CBL per 4g <sup>†</sup>	< LOQ		mg/4g	0.128	
CBL-A per 4g <sup>†</sup>	< LOQ		mg/4g	0.128	
CBL-Total per 4g <sup>†</sup>	< LOQ		mg/4g	0.240	
CBN per 4g	< LOQ		mg/4g	0.128	
CBT per 4g <sup>†</sup>	< LOQ		mg/4g	0.128	
Δ8-THCV per 4g <sup>†</sup>	< LOQ		mg/4g	0.128	
Δ8-THC per 4g <sup>†</sup>	< LOQ		mg/4g	0.128	
Δ9-THC per 4g	< LOQ		mg/4g	0.128	
exo-THC per 4g <sup>†</sup>	< LOQ		mg/4g	0.128	
THC-A per 4g	< LOQ		mg/4g	0.128	
THC-Total per 4g	< LOQ		mg/4g	0.240	
THCV per 4g <sup>†</sup>	< LOQ		mg/4g	0.128	
THCV-A per 4g <sup>†</sup>	< LOQ		mg/4g	0.128	
THCV-Total per 4g <sup>†</sup>	< LOQ		mg/4g	0.240	
Total Cannabinoids per 4g	30.8		mg/4g		



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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

**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/4g = Milligram per 4g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager





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Revision #: 0.00 Control : CFL-D06  
Revision Date: 05/31/2019 Effective Date: 05/31/2019

#### Laboratory Quality Control Results

J AOAC 2015 V98-6

Batch ID: 2109491

#### Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.0100	0.01	%	100	85.0 - 115	Acceptable	
CBDV	0.0104	0.01	%	104	85.0 - 115	Acceptable	
CBE	0.0107	0.01	%	107	85.0 - 115	Acceptable	
CBDA	0.00998	0.01	%	99.8	85.0 - 115	Acceptable	
CBGA	0.00996	0.01	%	99.6	85.0 - 115	Acceptable	
CBG	0.0105	0.01	%	105	85.0 - 115	Acceptable	
CBD	0.0102	0.01	%	102	85.0 - 115	Acceptable	
THCV	0.0104	0.01	%	104	85.0 - 115	Acceptable	
d8THCV	0.0102	0.01	%	102	85.0 - 115	Acceptable	
THCA	0.00960	0.01	%	96.0	85.0 - 115	Acceptable	
CBN	0.0101	0.01	%	101	85.0 - 115	Acceptable	
exo-THC	0.00977	0.01	%	97.7	85.0 - 115	Acceptable	
d9THC	0.00983	0.01	%	98.3	85.0 - 115	Acceptable	
d8THC	0.00976	0.01	%	97.6	85.0 - 115	Acceptable	
CBL	0.00940	0.01	%	94.0	85.0 - 115	Acceptable	
CBC	0.0101	0.01	%	101	85.0 - 115	Acceptable	
THCA	0.0106	0.01	%	106	85.0 - 115	Acceptable	
CBGA	0.0106	0.01	%	106	85.0 - 115	Acceptable	
CBLA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBT	0.00933	0.01	%	93.3	85.0 - 115	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	
CBDA	<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	
THCA	<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	
CBGA	<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**

J AOAC 2015 V98-6		Batch ID: 2109491						
Sample Duplicate		Sample ID: 21-012273-0001						
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	0.769	0.770	0.003	%	0.118	< 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	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	

**Abbreviations**

ND - None Detected at or above MRL  
RPD - Relative Percent Difference  
LOQ - Limit of Quantitation  
NA - Calculation Not Applicable given non-numerical results

**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.