



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



Report Number: 21-004139/D03.R00
Report Date: 04/21/2021
ORELAP#: OR100028
Purchase Order:
Received: 04/15/21 11:25

Customer: Healthy Roots
Product identity: Orange/Mango
Client/Metric ID: .
Laboratory ID: 21-004139-0001

Sample Date: 04/15/21 09:30

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 3.7g	27.9 mg/3.7g
CBD	0.753		%			
CBDV [†]	0.00422		%			
Analyte per 3.7g	Result	Limits	Units	Status	THC-Total per 3.7g	<LOQ
CBD per 3.7g	27.9		mg/3.7g			
CBDV per 3.7g [†]	0.156		mg/3.7g			

Microbiology:

Less than LOQ for all analytes.



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Customer: Healthy Roots

Product identity: Orange/Mango
Client/Metric ID: .
Sample Date: 04/15/21 09:30
Laboratory ID: 21-004139-0001
Evidence of Cooling: No
Temp: 22.4 °C
Serving Size #1: 3.7 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2103477	Analyze: 4/19/21 3:07:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.0032	
CBC-A [†]	< LOQ		%	0.0032	
CBC-Total [†]	< LOQ		%	0.0060	
CBD	0.753		%	0.0032	
CBD-A	< LOQ		%	0.0032	
CBD-Total	0.753		%	0.0060	
CBDV [†]	0.00422		%	0.0032	
CBDV-A [†]	< LOQ		%	0.0032	
CBDV-Total [†]	< LOQ		%	0.0060	
CBG [†]	< LOQ		%	0.0032	
CBG-A [†]	< LOQ		%	0.0032	
CBG-Total	< LOQ		%	0.0060	
CBL [†]	< LOQ		%	0.0032	
CBL-Total [†]	< LOQ		%	0.0032	
CBN	< LOQ		%	0.0032	
Δ8-THC [†]	< LOQ		%	0.0032	
Δ9-THC	< LOQ		%	0.0032	
THC-A	< LOQ		%	0.0032	
THC-Total	< LOQ		%	0.0060	
THCV [†]	< LOQ		%	0.0032	
THCV-A [†]	< LOQ		%	0.0032	
THCV-Total [†]	< LOQ		%	0.0060	
Total Cannabinoids[†]	0.757		%		

Potency per 3.7g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2103477	Analyze: 4/19/21 3:07:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 3.7g [†]	< LOQ		mg/3.7g	0.118	
CBC-A per 3.7g [†]	< LOQ		mg/3.7g	0.118	
CBC-Total per 3.7g [†]	< LOQ		mg/3.7g	0.222	
CBD per 3.7g	27.9		mg/3.7g	0.118	
CBD-A per 3.7g	< LOQ		mg/3.7g	0.118	
CBD-Total per 3.7g	27.9		mg/3.7g	0.222	
CBDV per 3.7g [†]	0.156		mg/3.7g	0.118	



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Potency per 3.7g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2103477 Analyze: 4/19/21 3:07:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBDV-A per 3.7g [†]	< LOQ		mg/3.7g	0.118	
CBDV-Total per 3.7g [†]	< LOQ		mg/3.7g	0.221	
CBG per 3.7g [†]	< LOQ		mg/3.7g	0.118	
CBG-A per 3.7g [†]	< LOQ		mg/3.7g	0.118	
CBG-Total per 3.7g [†]	< LOQ		mg/3.7g	0.221	
CBL per 3.7g [†]	< LOQ		mg/3.7g	0.118	
CBL-Total per 3.7g [†]	< LOQ		mg/3.7g	69.6	
CBN per 3.7g	< LOQ		mg/3.7g	0.118	
Δ8-THC per 3.7g [†]	< LOQ		mg/3.7g	0.118	
Δ9-THC per 3.7g	< LOQ		mg/3.7g	0.118	
THC-A per 3.7g	< LOQ		mg/3.7g	0.118	
THC-Total per 3.7g	< LOQ		mg/3.7g	0.222	
THCV per 3.7g [†]	< LOQ		mg/3.7g	0.118	
THCV-A per 3.7g [†]	< LOQ		mg/3.7g	0.118	
THCV-Total per 3.7g [†]	< LOQ		mg/3.7g	0.222	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2103364	04/17/21	AOAC 991.14 (Petrifilm)	X,I
Total Coliforms	< LOQ		cfu/g	10	2103364	04/17/21	AOAC 991.14 (Petrifilm)	X,I



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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

cfu/g = Colony forming units per gram

g = Gram

mg/3.7g = Milligram per 3.7g

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

X: Not ORELAP accredited.

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: 2103477					
Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDV-A	0.0101	0.01	%	101	85.0	- 115	Acceptable		
CBDV	0.0101	0.01	%	101	85.0	- 115	Acceptable		
CBD-A	0.0104	0.01	%	104	85.0	- 115	Acceptable		
CBG-A	0.00997	0.01	%	99.7	85.0	- 115	Acceptable		
CBG	0.0102	0.01	%	102	85.0	- 115	Acceptable		
CBD	0.0105	0.01	%	105	85.0	- 115	Acceptable		
THCV	0.0103	0.01	%	103	85.0	- 115	Acceptable		
THCVA	0.00959	0.01	%	95.9	85.0	- 115	Acceptable		
CBN	0.0112	0.01	%	112	85.0	- 115	Acceptable		
THC	0.0110	0.01	%	110	85.0	- 115	Acceptable		
D8THC	0.0103	0.01	%	103	85.0	- 115	Acceptable		
CBL	0.0101	0.01	%	101	85.0	- 115	Acceptable		
CBC	0.0103	0.01	%	103	85.0	- 115	Acceptable		
THCA	0.0106	0.01	%	106	85.0	- 115	Acceptable		
CBCA	0.0102	0.01	%	102	85.0	- 115	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes	
CBDV-A	<LOQ	0.003	%	< 0.003	Acceptable		
CBDV	<LOQ	0.003	%	< 0.003	Acceptable		
CBD-A	<LOQ	0.003	%	< 0.003	Acceptable		
CBG-A	<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		
THCVA	<LOQ	0.003	%	< 0.003	Acceptable		
CBN	<LOQ	0.003	%	< 0.003	Acceptable		
THC	<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		
CBCA	<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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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: 2103477			
Sample Duplicate					Sample ID: 21-004061-0001			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.00306	0.00308	0.003	%	0.424	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.486	0.483	0.003	%	0.606	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THC	0.0250	0.0248	0.003	%	0.442	< 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	

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.