



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



Report Number: 21-002732/D03.R02
Report Date: 03/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 03/15/21 14:46

This is an amended version of report# 21-002732/D03.R01.
Reason: Updated reporting units.

Customer: Healthy Roots
Product identity: #136, 200 Pet
Client/Metric ID: .
Laboratory ID: 21-002732-0002

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 31g	202 mg/31g
CBC	0.0185		%			
CBD	0.652		%			
CBDV [†]	0.00386		%		THC-Total per 31g	9.61 mg/31g
CBG [†]	0.00521		%			
Δ9-THC	0.0310		%			(Reported in milligrams per serving)
Analyte per 31g	Result	Limits	Units	Status		
CBC per 31g [†]	5.74		mg/31g			
CBD per 31g	202		mg/31g			
CBDV per 31g [†]	1.20		mg/31g			
CBG per 31g [†]	1.62		mg/31g			
Δ9-THC per 31g	9.61		mg/31g			



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Customer: Healthy Roots

Product identity: #136, 200 Pet
Client/Metric ID: .
Sample Date:
Laboratory ID: 21-002732-0002
Evidence of Cooling: No
Temp: 13.3 °C
Serving Size #1: 31 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2102362	Analyze: 3/16/21 9:48:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0185		%	0.0031	
CBC-A [†]	< LOQ		%	0.0031	
CBC-Total [†]	0.0185		%	0.0059	
CBD	0.652		%	0.0031	
CBD-A	< LOQ		%	0.0031	
CBD-Total	0.652		%	0.0059	
CBDV [†]	0.00386		%	0.0031	
CBDV-A [†]	< LOQ		%	0.0031	
CBDV-Total [†]	< LOQ		%	0.0059	
CBG [†]	0.00521		%	0.0031	
CBG-A [†]	< LOQ		%	0.0031	
CBG-Total	< LOQ		%	0.0059	
CBL [†]	< LOQ		%	0.0031	
CBN	< LOQ		%	0.0031	
Δ8-THC [†]	< LOQ		%	0.0031	
Δ9-THC	0.0310		%	0.0031	
THC-A	< LOQ		%	0.0031	
THC-Total	0.0310		%	0.0059	
THCV [†]	< LOQ		%	0.0031	
THCV-A [†]	< LOQ		%	0.0031	
THCV-Total [†]	< LOQ		%	0.0059	
Total Cannabinoids[†]	0.711		%		

Potency per 31g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2102362	Analyze: 3/16/21 9:48:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 31g [†]	5.74		mg/31g	0.976	
CBC-A per 31g [†]	< LOQ		mg/31g	0.0315	
CBC-Total per 31g [†]	5.74		mg/31g	1.83	
CBD per 31g	202		mg/31g	0.976	
CBD-A per 31g	< LOQ		mg/31g	0.0315	
CBD-Total per 31g	202		mg/31g	1.83	
CBDV per 31g [†]	1.20		mg/31g	0.976	
CBDV-A per 31g [†]	< LOQ		mg/31g	0.0315	



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Potency per 31g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2102362 Analyze: 3/16/21 9:48:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBDV-Total per 31g [†]	< LOQ		mg/31g	1.82	
CBG per 31g [†]	1.62		mg/31g	0.976	
CBG-A per 31g [†]	< LOQ		mg/31g	0.0315	
CBG-Total per 31g [†]	< LOQ		mg/31g	1.82	
CBL per 31g [†]	< LOQ		mg/31g	0.0315	
CBN per 31g	< LOQ		mg/31g	0.0315	
Δ8-THC per 31g [†]	< LOQ		mg/31g	0.0315	
Δ9-THC per 31g	9.61		mg/31g	0.976	
THC-A per 31g	< LOQ		mg/31g	0.0315	
THC-Total per 31g	9.61		mg/31g	1.83	
THCV per 31g [†]	< LOQ		mg/31g	0.0315	
THCV-A per 31g [†]	< LOQ		mg/31g	0.0315	
THCV-Total per 31g [†]	< LOQ		mg/31g	0.0591	
Total Cannabinoids 31g[†]	220		mg/31g		



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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/31g = Milligram per 31g

% = Percentage of sample

% wt = $\mu\text{g/g}$ 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: 2102362				
Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDV-A	0.0102	0.01	%	102	85.0	- 115	Acceptable	
CBDV	0.0106	0.01	%	106	85.0	- 115	Acceptable	
CBD-A	0.00987	0.01	%	98.7	85.0	- 115	Acceptable	
CBG-A	0.0103	0.01	%	103	85.0	- 115	Acceptable	
CBG	0.0105	0.01	%	105	85.0	- 115	Acceptable	
CBD	0.00968	0.01	%	96.8	85.0	- 115	Acceptable	
THCV	0.0105	0.01	%	105	85.0	- 115	Acceptable	
THCVA	0.0100	0.01	%	100	85.0	- 115	Acceptable	
CBN	0.0110	0.01	%	110	85.0	- 115	Acceptable	
THC	0.0102	0.01	%	102	85.0	- 115	Acceptable	
D8THC	0.0102	0.01	%	102	85.0	- 115	Acceptable	
CBL	0.0104	0.01	%	104	85.0	- 115	Acceptable	
CBC	0.0107	0.01	%	107	85.0	- 115	Acceptable	
THCA	0.0102	0.01	%	102	85.0	- 115	Acceptable	
CBCA	0.0109	0.01	%	109	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: 2102362			
Sample Duplicate					Sample ID: 21-002152-0001-01			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0430	0.0431	0.003	%	0.179	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.111	0.111	0.003	%	0.424	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 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	0.251	0.252	0.003	%	0.288	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	0.0152	0.0161	0.003	%	5.8	< 20	Acceptable	
CBC	0.306	0.307	0.003	%	0.43	< 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.