



Customer: Healthy Roots
Product identity: 0018.022719
Client/Metric ID: .
Laboratory ID: 19-013324-0002

Summary

Potency:

Analyte per 28g	Result	Limits	Units	Status	CBD-Total per 28g	550 mg/28g
CBC per 28g [†]	73.4		mg/28g			
CBD per 28g	549		mg/28g		THC-Total per 28g	45.9 mg/28g
CBD-A per 28g	1.33		mg/28g		(Reported in milligrams per serving)	
CBDV per 28g [†]	2.05		mg/28g			
CBG per 28g [†]	8.37		mg/28g			
CBN per 28g	3.05		mg/28g			
Δ9-THC per 28g	45.9		mg/28g			
THCV per 28g [†]	14.1		mg/28g			



Customer: Healthy Roots

Product identity: 0018.022719

Client/Metric ID: .

Sample Date:

Laboratory ID: 19-013324-0002

Temp: 20.9 °C

Relinquished by: Liz Merritt

Serving Size #1: 28 g

Sample Results

Potency per 28g				Batch: 1910173			
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 28g [†]	73.4		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBC-A per 28g [†]	< LOQ		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBC-Total per 28g [†]	73.4		mg/28g	1.75	11/07/19	J AOAC 2015 V98-6	
CBD per 28g	549		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBD-A per 28g	1.33		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBD-Total per 28g	550		mg/28g	1.75	11/07/19	J AOAC 2015 V98-6	
CBDV per 28g [†]	2.05		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBDV-A per 28g [†]	< LOQ		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBDV-Total per 28g [†]	2.05		mg/28g	1.74	11/07/19	J AOAC 2015 V98-6	
CBG per 28g [†]	8.37		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBG-A per 28g [†]	< LOQ		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBG-Total per 28g [†]	8.37		mg/28g	1.75	11/07/19	J AOAC 2015 V98-6	
CBL per 28g [†]	< LOQ		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
CBN per 28g	3.05		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
Δ8-THC per 28g [†]	< LOQ		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
Δ9-THC per 28g	45.9		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
THC-A per 28g	< LOQ		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
THC-Total per 28g	45.9		mg/28g	1.75	11/07/19	J AOAC 2015 V98-6	
THCV per 28g [†]	14.1		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
THCV-A per 28g [†]	< LOQ		mg/28g	0.933	11/07/19	J AOAC 2015 V98-6	
THCV-Total per 28g [†]	14.1		mg/28g	1.74	11/07/19	J AOAC 2015 V98-6	



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/28g = Milligram per 28g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager





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: 1910173

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.00952	0.01	%	95.2	85 - 115	Acceptable	
CBDV	0.00958	0.01	%	95.8	85 - 115	Acceptable	
CBD-A	0.00939	0.01	%	93.9	85 - 115	Acceptable	
CBG-A	0.00962	0.01	%	96.2	85 - 115	Acceptable	
CBG	0.00960	0.01	%	96.0	85 - 115	Acceptable	
CBD	0.00968	0.01	%	96.8	85 - 115	Acceptable	
THCV	0.00959	0.01	%	95.9	85 - 115	Acceptable	
THCVA	0.00951	0.01	%	95.1	85 - 115	Acceptable	
CBN	0.00940	0.01	%	94.0	85 - 115	Acceptable	
THC	0.00944	0.01	%	94.4	85 - 115	Acceptable	
D8THC	0.00942	0.01	%	94.2	85 - 115	Acceptable	
CBL	0.00942	0.01	%	94.2	85 - 115	Acceptable	
CBC	0.0104	0.01	%	104	85 - 115	Acceptable	
THCA	0.00936	0.01	%	93.6	85 - 115	Acceptable	
CBCA	0.00956	0.01	%	95.6	85 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	ND	0.003	%	< 0.003	Acceptable	
CBDV	ND	0.003	%	< 0.003	Acceptable	
CBD-A	ND	0.003	%	< 0.003	Acceptable	
CBG-A	ND	0.003	%	< 0.003	Acceptable	
CBG	ND	0.003	%	< 0.003	Acceptable	
CBD	ND	0.003	%	< 0.003	Acceptable	
THCV	ND	0.003	%	< 0.003	Acceptable	
THCVA	ND	0.003	%	< 0.003	Acceptable	
CBN	ND	0.003	%	< 0.003	Acceptable	
THC	ND	0.003	%	< 0.003	Acceptable	
D8THC	ND	0.003	%	< 0.003	Acceptable	
CBL	ND	0.003	%	< 0.003	Acceptable	
CBC	ND	0.003	%	< 0.003	Acceptable	
THCA	ND	0.003	%	< 0.003	Acceptable	
CBCA	ND	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



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

J AOAC 2015 V98-6					Batch ID: 1910173			
Sample Duplicate					Sample ID: 19-013317-0005			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBDV	0.0129	0.0133	0.003	%	3.05	< 20	Acceptable	
CBD-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG	0.00756	0.00764	0.003	%	1.05	< 20	Acceptable	
CBD	2.43	2.42	0.003	%	0	< 20	Acceptable	
THCV	ND	ND	0.003	%	0	< 20	Acceptable	
THCVA	ND	ND	0.003	%	0	< 20	Acceptable	
CBN	0.0118	0.0122	0.003	%	3.33	< 20	Acceptable	
THC	ND	ND	0.003	%	0	< 20	Acceptable	
D8THC	ND	ND	0.003	%	0	< 20	Acceptable	
CBL	ND	ND	0.003	%	0	< 20	Acceptable	
CBC	0.0424	0.0427	0.003	%	0.71	< 20	Acceptable	
THCA	ND	ND	0.003	%	0	< 20	Acceptable	
CBCA	ND	ND	0.003	%	0	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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.