



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



Report Number: 21-005366/D003.R00
Report Date: 05/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 05/14/21 11:45

Customer: Healthy Roots
Product identity: #148V2 1000 Natural
Client/Metric ID: .
Laboratory ID: 21-005366-0001

Sample Date: 05/14/21

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g	1020 mg/28.5g
CBC	0.158		%			
CBC-A†	0.0404		%			
CBD	3.14		%		THC-Total per 28.5g	11.8 mg/28.5g
CBD-A	0.504		%			
CBG†	0.0179		%			
CBG-A†	0.00906		%			
Δ9-THC	0.0414		%			
					(Reported in milligrams per serving)	
Analyte per 28.5g	Result	Limits	Units	Status		
CBC per 28.5g†	45.0		mg/28.5g			
CBC-A per 28.5g†	11.5		mg/28.5g			
CBD per 28.5g	895		mg/28.5g			
CBD-A per 28.5g	144		mg/28.5g			
CBG per 28.5g†	5.10		mg/28.5g			
CBG-A per 28.5g†	2.58		mg/28.5g			
Δ9-THC per 28.5g	11.8		mg/28.5g			



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



Report Number: 21-005366/D003.R00
Report Date: 05/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 05/14/21 11:45

Customer: Healthy Roots

Product identity: #148V2 1000 Natural
Client/Metric ID: .
Sample Date: 05/14/21
Laboratory ID: 21-005366-0001
Evidence of Cooling: No
Temp: 21.9 °C
Relinquished by: Client
Serving Size #1: 28.5 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2104467	Analyze: 5/19/21 2:37:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.158		%	0.0033	
CBC-A†	0.0404		%	0.0033	
CBC-Total†	0.193		%	0.0062	
CBD	3.14		%	0.0331	
CBD-A	0.504		%	0.0033	
CBD-Total	3.58		%	0.0360	
CBDV†	< LOQ		%	0.0033	
CBDV-A†	< LOQ		%	0.0033	
CBDV-Total†	< LOQ		%	0.0062	
CBE†	< LOQ		%	33.1	
CBG†	0.0179		%	0.0033	
CBG-A†	0.00906		%	0.0033	
CBG-Total	0.0259		%	0.0062	
CBL†	< LOQ		%	0.0033	
CBL-A†	< LOQ		%	33.1	
CBL-Total†	< LOQ		%	29.0	
CBN	< LOQ		%	0.0033	
CBT†	< LOQ		%	33.1	
d8THCV	< LOQ		%	33.1	
Δ8-THC†	< LOQ		%	0.0033	
Δ9-THC	0.0414		%	0.0033	
exo-THC	< LOQ		%	33.1	
THC-A	< LOQ		%	0.0033	
THC-Total	0.0414		%	0.0062	
THCV†	< LOQ		%	0.0033	
THCV-A†	< LOQ		%	0.0033	
THCV-Total†	< LOQ		%	0.0062	
Total Cannabinoids†	3.91		%		

Potency per 28.5g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2104467	Analyze: 5/19/21 2:37:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g†	45.0		mg/28.5g	0.942	



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



Report Number: 21-005366/D003.R00
Report Date: 05/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 05/14/21 11:45

Potency per 28.5g Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2104467 Analyze: 5/19/21 2:37:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC-A per 28.5g [†]	11.5		mg/28.5g	0.942	
CBC-Total per 28.5g [†]	55.1		mg/28.5g	1.77	
CBD per 28.5g	895		mg/28.5g	9.42	
CBD-A per 28.5g	144		mg/28.5g	0.942	
CBD-Total per 28.5g	1020		mg/28.5g	10.3	
CBDV per 28.5g [†]	< LOQ		mg/28.5g	0.942	
CBDV-A per 28.5g [†]	< LOQ		mg/28.5g	0.942	
CBDV-Total per 28.5g [†]	< LOQ		mg/28.5g	1.76	
CBE per 28.5g [†]	< LOQ		mg/28.5g	2690000	
CBG per 28.5g [†]	5.10		mg/28.5g	0.942	
CBG-A per 28.5g [†]	2.58		mg/28.5g	0.942	
CBG-Total per 28.5g [†]	7.34		mg/28.5g	1.76	
CBL per 28.5g [†]	< LOQ		mg/28.5g	0.942	
CBL-A per 28.5g [†]	< LOQ		mg/28.5g	2690000	
CBL-Total per 28.5g [†]	< LOQ		mg/28.5g	2360000	
CBN per 28.5g	< LOQ		mg/28.5g	0.942	
CBT per 28.5g [†]	< LOQ		mg/28.5g	2690000	
d8THCV per 28.5g [†]	< LOQ		mg/28.5g	2690000	
Δ8-THC per 28.5g [†]	< LOQ		mg/28.5g	0.942	
Δ9-THC per 28.5g	11.8		mg/28.5g	0.942	
exo-THC per 28.5g [†]	< LOQ		mg/28.5g	2690000	
THC-A per 28.5g	< LOQ		mg/28.5g	0.942	
THC-Total per 28.5g	11.8		mg/28.5g	1.77	
THCV per 28.5g [†]	< LOQ		mg/28.5g	0.942	
THCV-A per 28.5g [†]	< LOQ		mg/28.5g	0.942	
THCV-Total per 28.5g [†]	< LOQ		mg/28.5g	1.77	



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



Report Number: 21-005366/D003.R00
Report Date: 05/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 05/14/21 11:45

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/28.5g = Milligram per 28.5g

% = Percentage of sample

% wt = $\mu\text{g/g}$ divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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



Report Number: 21-005366/D003.R00
Report Date: 05/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 05/14/21 11:45

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: 2104467**

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.00948	0.01	%	94.8	85.0 - 115	Acceptable	
CBDV	0.00998	0.01	%	99.8	85.0 - 115	Acceptable	
CBE	0.00998	0.01	%	99.8	85.0 - 115	Acceptable	
CBDA	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBGA	0.00954	0.01	%	95.4	85.0 - 115	Acceptable	
CBG	0.00984	0.01	%	98.4	85.0 - 115	Acceptable	
CBD	0.0100	0.01	%	100	85.0 - 115	Acceptable	
THCV	0.0102	0.01	%	102	85.0 - 115	Acceptable	
d8THCV	0.00857	0.01	%	85.7	85.0 - 115	Acceptable	
THCVA	0.00928	0.01	%	92.8	85.0 - 115	Acceptable	
CBN	0.0107	0.01	%	107	85.0 - 115	Acceptable	
exo-THC	0.00956	0.01	%	95.6	85.0 - 115	Acceptable	
d9THC	0.0107	0.01	%	107	85.0 - 115	Acceptable	
d8THC	0.00973	0.01	%	97.3	85.0 - 115	Acceptable	
CBL	0.00942	0.01	%	94.2	85.0 - 115	Acceptable	
CBC	0.0101	0.01	%	101	85.0 - 115	Acceptable	
THCA	0.00982	0.01	%	98.2	85.0 - 115	Acceptable	
CBCA	0.00944	0.01	%	94.4	85.0 - 115	Acceptable	
CBLA	0.00877	0.01	%	87.7	85.0 - 115	Acceptable	
CBT	0.0102	0.01	%	102	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	
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	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<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



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



Report Number: 21-005366/D003.R00
Report Date: 05/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 05/14/21 11:45

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: 2104467			
Sample Duplicate					Sample ID: 21-005345-0001			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0701	0.0699	0.003	%	0.182	< 20	Acceptable	
CBE	0.184	0.184	0.003	%	0.181	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0430	0.0432	0.003	%	0.324	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 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	0.111	0.112	0.003	%	0.129	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.0153	0.0129	0.003	%	17.4	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	0.0167	0.0154	0.003	%	7.92	< 20	Acceptable	
CBC	0.178	0.177	0.003	%	0.428	< 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	0.166	0.168	0.003	%	1.54	< 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



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



Report Number: 21-005366/D003.R00
Report Date: 05/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 05/14/21 11:45

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.