



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



Report Number: 22-010948/D002.R001
Report Date: 09/28/2022
ORELAP#: OR100028
Purchase Order:
Received: 09/14/22 09:14

This is an amended version of report# 22-010948/D002.R000.
Reason: Sample re-extracted for potency at lower LOQ.

Customer: Healthy Roots
Product identity: #0234 500 Pet
Client/Metric ID: .
Laboratory ID: 22-010948-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per Serving Size 497 mg/28.5g
CBC	0.0593		%		
CBD	1.72		%		
CBD-A	0.0269		%		THC-Total per Serving Size 23.9 mg/28.5g
CBDV	0.0146		%		
CBG	0.0155		%		
CBT	0.0248		%		
Δ9-THC	0.0839		%		(Reported in milligrams per serving)
Analyte per 28.5g	Result	Limits	Units	Status	
CBC per 28.5g	16.9		mg/28.5g		
CBD per 28.5g	490		mg/28.5g		
CBD-A per 28.5g	7.67		mg/28.5g		
CBDV per 28.5g	4.16		mg/28.5g		
CBG per 28.5g	4.42		mg/28.5g		
CBT per 28.5g	7.07		mg/28.5g		
Δ9-THC per 28.5g	23.9		mg/28.5g		



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Customer: Healthy Roots
Product identity: #0234 500 Pet
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-010948-0001
Evidence of Cooling: No
Temp: 22.3 °C
Relinquished by: Client
Serving Size #1: 28.5 g

Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) ^b		Units %	Batch: 2208193	Analyze: 9/27/22 10:35:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0593		%	0.00717	
CBC-A	< LOQ		%	0.00717	
CBC-Total	0.0593		%	0.0135	
CBD	1.72		%	0.00717	
CBD-A	0.0269		%	0.00717	
CBD-Total	1.74		%	0.0135	
CBDV	0.0146		%	0.00717	
CBDV-A	< LOQ		%	0.00717	
CBDV-Total	0.0146		%	0.0134	
CBE	< LOQ		%	0.00717	
CBG	0.0155		%	0.00717	
CBG-A	< LOQ		%	0.00717	
CBG-Total	0.0155		%	0.0134	
CBL	< LOQ		%	0.00717	
CBL-A	< LOQ		%	0.00717	
CBL-Total	< LOQ		%	0.0135	
CBN	< LOQ		%	0.00717	
CBT	0.0248		%	0.00717	
Δ8-THCV	< LOQ		%	0.00717	
Δ10-THC	< LOQ		%	0.00717	
Δ8-THC	< LOQ		%	0.00717	
Δ9-THC	0.0839		%	0.00717	
exo-THC	< LOQ		%	0.00717	
THC-A	< LOQ		%	0.00717	
THC-Total	0.0839		%	0.0135	
THCV	< LOQ		%	0.00717	
THCV-A	< LOQ		%	0.00717	
THCV-Total	< LOQ		%	0.0134	
Total Cannabinoids	1.95		%		

Potency per 28.5g	Method: J AOAC 2015 V98-6 (mod) ^b		Units mg/se	Batch: 2208193	Analyze: 9/27/22 10:35:00 PM
Analyte	Result	Limits	Units	LOQ	Notes



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Potency per 28.5g Method: J AOAC 2015 V98-6 (mod) ^b Units mg/se Batch: 2208193 Analyze: 9/27/22 10:35:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g	16.9		mg/28.5g	2.04	
CBC-A per 28.5g	< LOQ		mg/28.5g	2.04	
CBC-Total per 28.5g	16.9		mg/28.5g	3.84	
CBD per 28.5g	490		mg/28.5g	2.04	
CBD-A per 28.5g	7.67		mg/28.5g	2.04	
CBD-Total per 28.5g	497		mg/28.5g	3.84	
CBDV per 28.5g	4.16		mg/28.5g	2.04	
CBDV-A per 28.5g	< LOQ		mg/28.5g	2.04	
CBDV-Total per 28.5g	5.66		mg/28.5g	3.82	
CBE per 28.5g	< LOQ		mg/28.5g	2.04	
CBG per 28.5g	4.42		mg/28.5g	2.04	
CBG-A per 28.5g	< LOQ		mg/28.5g	2.04	
CBG-Total per 28.5g	4.42		mg/28.5g	3.82	
CBL per 28.5g	< LOQ		mg/28.5g	2.04	
CBL-A per 28.5g	< LOQ		mg/28.5g	2.04	
CBL-Total per 28.5g	< LOQ		mg/28.5g	3.84	
CBN per 28.5g	< LOQ		mg/28.5g	2.04	
CBT per 28.5g	7.07		mg/28.5g	2.04	
Δ8-THCV per 28.5g	< LOQ		mg/28.5g	2.04	
Δ10-THC per 28.5g	< LOQ		mg/28.5g	2.04	
Δ8-THC per 28.5g	< LOQ		mg/28.5g	2.04	
Δ9-THC per 28.5g	23.9		mg/28.5g	2.04	
exo-THC per 28.5g	< LOQ		mg/28.5g	2.04	
THC-A per 28.5g	< LOQ		mg/28.5g	2.04	
THC-Total per 28.5g	23.9		mg/28.5g	3.84	
THCV per 28.5g	< LOQ		mg/28.5g	2.04	
THCV-A per 28.5g	< LOQ		mg/28.5g	2.04	
THCV-Total per 28.5g	< LOQ		mg/28.5g	3.84	
Total Cannabinoids per 28.5g	558		mg/28.5g		



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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, CCR title 16-division 42. BCC-section 5723

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.

^b = ISO/IEC 17025:2017 accredited method.

Units of Measure

g = g

mg/28.5g = Milligram per 28.5g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2208193

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	2	0.0330	0.034	%	95.9	80.0 - 120	Acceptable		
CBDV	2	0.0369	0.037	%	101	80.0 - 120	Acceptable		
CBE	2	0.0326	0.035	%	93.4	80.0 - 120	Acceptable		
CBD A	1	0.0314	0.033	%	93.7	90.0 - 110	Acceptable		
CBGA	1	0.0314	0.034	%	93.5	80.0 - 120	Acceptable		
CBG	1	0.0324	0.034	%	94.5	80.0 - 120	Acceptable		
CBD	1	0.0324	0.034	%	94.6	90.0 - 110	Acceptable		
THCV	2	0.0361	0.038	%	96.0	80.0 - 120	Acceptable		
d8THCV	2	0.0358	0.037	%	97.6	80.0 - 120	Acceptable		
THCVA	2	0.0327	0.034	%	97.6	80.0 - 120	Acceptable		
CBN	1	0.0318	0.034	%	94.3	90.0 - 110	Acceptable		
exo-THC	2	0.0332	0.034	%	97.1	80.0 - 120	Acceptable		
d9THC	1	0.0328	0.035	%	94.9	90.0 - 110	Acceptable		
d8THC	1	0.0313	0.033	%	93.4	80.0 - 120	Acceptable		
CBL	2	0.0307	0.033	%	93.5	80.0 - 120	Acceptable		
d10THC	1	0.0299	0.032	%	93.8	80.0 - 120	Acceptable		
CBG	2	0.0354	0.036	%	98.0	80.0 - 120	Acceptable		
THCA	1	0.0311	0.033	%	93.7	90.0 - 110	Acceptable		
CBCA	2	0.0335	0.035	%	95.4	80.0 - 120	Acceptable		
CBLA	2	0.0175	0.019	%	93.7	80.0 - 120	Acceptable		
CBT	2	0.0332	0.037	%	89.1	80.0 - 120	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	
CBD A	<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	
d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<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

Units of Measure:

% - Percent



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Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2208193								
Sample Duplicate Sample ID: 22-0104450001								
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	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	0.00460	0.00536	0.003	%	15.1	< 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	2.92	2.90	0.003	%	0.540	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d10THC	<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

Units of Measure:



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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.