



Report Number:	21-012273/D003.R000
Report Date:	10/21/2021
ORELAP#:	OR100028
Purchase Order:	
Received:	10/11/21 14:15

Customer:	Healthy Roots
Product identity:	#4 Tropical Punch
Client/Metrc ID:	
Laboratory ID:	21-012273-0001

Summary

Analyte	Result	Limits	Units	Status	CBD-Total per 4g	30.8 mg/4g
CBD	0.769		%			
Analyte per 4g	Result	Limits	Units	Status	THC-Total per 4g	<loq< td=""></loq<>
CBD per 4g	30.8		mg/4g		(Reported in milli	grams per serving)

Page 1 of 8 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made. Testing in accordance with: OAR 333-007-0430





Report Number:	21-012273/D003.R000
Report Date:	10/21/2021
ORELAP#:	OR100028
Purchase Order:	
Received:	10/11/21 14:15

Customer:	Healthy Roots
Product identity:	#4 Tropical Punch
Client/Metrc ID: Sample Date:	
Laboratory ID:	21-012273-0001
Evidence of Cooling:	No
Temp:	20 °C
Relinquished by:	Client
Serving Size #1:	4 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2109491	Analyze: 10/20/21 7:28:00 PM
Analyte	Result Limits	Units	LOQ	Notes
CBC	< LOQ	%	0.0032	
CBC-A [†]	< LOQ	%	0.0032	
CBC-Total [†]	< LOQ	%	0.0060	
CBD	0.769	%	0.0032	
CBD-A	< LOQ	%	0.0032	
CBD-Total	0.769	%	0.0060	
CBDV [†]	< LOQ	%	0.0032	
CBDV-A [†]	< LOQ	%	0.0032	
CBDV-Total [†]	< LOQ	%	0.0060	
CBE [†]	< LOQ	%	0.0032	
CBG [†]	< LOQ	%	0.0032	
CBG-A [†]	< LOQ	%	0.0032	
CBG-Total	< LOQ	%	0.0060	
CBL [†]	< LOQ	%	0.0032	
CBL-A [†]	< LOQ	%	0.0032	
CBL-Total [†]	< LOQ	%	0.0060	
CBN	< LOQ	%	0.0032	
CBT [†]	< LOQ	%	0.0032	
$\Delta 8$ -THCV	< LOQ	%	0.0032	
$\Delta 8\text{-THC}^{\dagger}$	< LOQ	%	0.0032	
$\Delta 9$ -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 [†]	0.769	%		

Potency per 4g	Method J AOA	C 2015 V98-6 (m	nod) Units mg/se B a	atch: 2109491	Analyze: 10/20/21 7:28:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g [†]	< LOQ		mg/4g	0.128	
CBC-A per 4g [†]	< LOQ		mg/4g	0.128	
CBC-Total per 4g [†]	< LOQ		mg/4g	0.240	

Page 2 of 8 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made. Testing in accordance with: OAR 333-007-0430





Report Number: 21-012273/D003.R000 **Report Date:** 10/21/2021 **ORELAP#:** OR100028 **Purchase Order:** 10/11/21 14:15 **Received:**

Potency per 4g	Method J AOA	C 2015 V98-6 (mod)Units	mg/se Batch: 2109491	Analyze: 10/20/21 7:28:00 PM
Analyte	Result	Limits Ur	nits LOQ	Notes
CBD per 4g	30.8	mg/4	g 0.128	
CBD-A per 4g	< LOQ	mg/4	g 0.128	
CBD-Total per 4g	30.8	mg/2	g 0.240	
CBDV per 4g [†]	< LOQ	mg/2	g 0.128	
CBDV-A per 4g [†]	< LOQ	mg/2	g 0.128	
CBDV-Total per 4g [†]	< LOQ	mg/2	g 0.238	
CBE per 4g [†]	< LOQ	mg/2	g 0.128	
CBG per 4g [†]	< LOQ	mg/2	g 0.128	
CBG-A per 4g [†]	< LOQ	mg/2	g 0.128	
CBG-Total per 4g [†]	< LOQ	mg/2	g 0.238	
CBL per 4g⁺	< LOQ	mg/2	g 0.128	
CBL-A per 4g [†]	< LOQ	mg/2	g 0.128	
CBL-Total per 4g [†]	< LOQ	mg/2	g 0.240	
CBN per 4g	< LOQ	mg/2	g 0.128	
CBT per 4g [†]	< LOQ	mg/2	g 0.128	
$\Delta 8$ -THCV per 4g [†]	< LOQ	mg/2	g 0.128	
$\Delta 8$ -THC per 4g [†]	< LOQ	mg/2	g 0.128	
∆9-THC per 4g	< LOQ	mg/2	g 0.128	
exo-THC per 4g⁺	< LOQ	mg/2	g 0.128	
THC-A per 4g	< LOQ	mg/2	g 0.128	
THC-Total per 4g	< LOQ	mg/2	g 0.240	
THCV per 4g [†]	< LOQ	mg/4	g 0.128	
THCV-A per 4g⁺	< LOQ	mg/4	g 0.128	
THCV-Total per 4g⁺	< LOQ	mg/4	g 0.240	
Total Cannabinoids per 4g	30.8	mg/2	g	

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 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

 Testing in accordance with:
 OAR 333-007-0430





Report Number: 21-012273/D003.R000 Report Date: 10/21/2021 **ORELAP#:** OR100028 Purchase Order: Received: 10/11/21 14:15

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/4g = Milligram per 4g % = Percentage of sample % wt = $\mu g/g$ divided by 10,000

Approved Signatory

Derrick Tanner General Manager

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Report Date:	10/21/2021
ORELAP#:	OR100028
Purchase Order:	
Received:	10/11/21 14:15

	E S iny		Revis	ion: 4		ontrol	#: CF0	23 Re PID: C	v 02/2	24/202		03/0	14/202	1		
	ort Way, #1 7230 p@gmail.co	m	Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	× × × Potency	A Residual Solvents	Moisture & Water Activity	s Req	Micro: Yeast and Mold	P Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Outre Count Salmone Ila	Projec Pro Custom Report t Turnarou	iject Name: Reporting: o State - 🗌 M und time: 🎢 5 🗌 3 二 2	ETRC or Other: Business Day Standard Turnaround Business Day Rush Turnaround* Business Day Rush Turnaround* Check for availability Comments/Metrc ID
Relinquished By:	Date	Time 2:15pm				Received 3D				-	ate 1/21		ime : 15	Sample	in good condit	Report in mg/gr and % (percentage Lab Use Only: or/^ Client drop IYes D No - Temp (°C): Doc ICC D Net:

Samples submitted to Columbia Laborotories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms P: (503) 254-1794 | Fax: (503) 254-1452 info@columbialaboratories.com 12423 NE Whitaker Way Portland, OR 97230 Page _____of____ www.columbialaboratories.com

Page 5 of 8 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made. Testing in accordance with: OAR 333-007-0430





21-012273/D003.R000
10/21/2021
OR100028

Received:

10/11/21 14:15

Revision #: 0.00 Control : CFL-D06

|--|

		Labo	ratory (Quality Co	ontrol Results		
J AOAC 2015 V98-6 Batch ID: 2109491 Laboratory Control Sample							
CBDVA	0.0100	0.01	%	100	85.0 - 115	Acceptable	
CBDV	0.0104	0.01	%	104	85.0 - 115	Acceptable	
CBE	0.0107	0.01	%	107	85.0 - 115	Acceptable	
CBDA	0.00998	0.01	%	99.8	85.0 - 115	Acceptable	
CBGA	0.00996	0.01	%	99.6	85.0 - 115	Acceptable	
CBG	0.0105	0.01	%	105	85.0 - 115	Acceptable	
CBD	0.0102	0.01	%	102	85.0 - 115	Acceptable	
THCV	0.0104	0.01	%	104	85.0 - 115	Acceptable	
d8THCV	0.0102	0.01	%	102	85.0 - 115	Acceptable	
THCVA	0.00960	0.01	%	96.0	85.0 - 115	Acceptable	
CBN	0.0101	0.01	%	101	85.0 - 115	Acceptable	
exo-THC	0.00977	0.01	%	97.7	85.0 - 115	Acceptable	
d9THC	0.00983	0.01	%	98.3	85.0 - 115	Acceptable	
d8THC	0.00976	0.01	%	97.6	85.0 - 115	Acceptable	
CBL	0.00940	0.01	%	94.0	85.0 - 115	Acceptable	
CBC	0.0101	0.01	%	101	85.0 - 115	Acceptable	
THCA	0.0106	0.01	%	106	85.0 - 115	Acceptable	
CBCA	0.0106	0.01	%	106	85.0 - 115	Acceptable	
CBLA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBT	0.00933	0.01	%	93.3	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBDV	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBE	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBDA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBGA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBG	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBD	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
THCV	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
d8THCV	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
THCVA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBN	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
exo-THC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
d9THC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
d8THC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBL	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
THCA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBCA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBLA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBT	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></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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Testing in accordance with: OAR 333-007-0430





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Report Date:	10/21/2021				
ORELAP#:	OR100028				
Purchase Order:					
Received:	10/11/21 14:15				

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

			Labor	atory (Quality Co	ntrol Results			
J AOAC 2015 V98-6 Batch ID: 2109491									
Sample Duplicate				Sample ID: 21-012273-0001					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes	
CBDVA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBDV	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBE	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBDA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBGA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBG	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBD	0.769	0.770	0.003	%	0.118	< 20	Acceptable		
THCV	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
d8THCV	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
THCVA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBN	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
exo-THC	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
d9THC	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
d8THC	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBL	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBC	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
THCA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBCA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBLA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable		
CBT	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></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

Page 7 of 8 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made. Testing in accordance with: OAR 333-007-0430





Report Number: 21-012273/D003.R000 **Report Date:** 10/21/2021 **ORELAP#:** OR100028 **Purchase Order:** 10/11/21 14:15 **Received:**

Explanation of QC Flag Comments:

Explanation					
Matrix interferences affecting spike or surrogate recoveries.					
Quality control result biased high. Only non-detect samples reported.					
Quality control outside QC limits. Data considered estimate.					
Sample concentration greater than four times the amount spiked.					
Non-homogenous sample matrix, affecting RPD result and/or % recoveries.					
Spike results above calibration curve.					
Quality control outside QC limits. Data acceptable based on remaining QC.					
Relative percent difference (RPD) outside control limit.					
RPD non-calculable, as sample or duplicate results are less than five times the LOQ.					
Sample replicates RPD non-calculable, as only one replicate is within the analytical range.					
Quantitation level raised due to low sample volume and/or dilution.					
Quantitaion level raised due to matrix interference.					
Analyte detected in method blank, but not in associated samples.					
The sample concentration is greater than 5 times the blank concentration.					
The sample concentration is less than 5 times the blank concentration.					

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 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

 Testing in accordance with:
 OAR 333-007-0430