



**Report Number:** 21-013253/D002.R001

**Report Date:** 11/23/2021 **ORELAP#:** OR100028

**Purchase Order:** 

**Received:** 11/10/21 14:36

This is an amended version of report# 21-013253/D002.R000. Reason: Sample re-extracted for potency.

Customer: Healthy Roots
Product identity: #181, 800 Pet

Client/Metrc ID:

**Laboratory ID:** 21-013253-0004

# Summary

<b>Potenc</b>	у	:
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Analyte	Result	Limits	Units	Status	CBD-Total per 28.5g	884 mg/28.5g		
CBC	0.0828		%					
CBD	3.10		%					
CBDV <sup>†</sup>	0.0183		%		THC-Total per 28.5g	36.5 mg/28.5g		
CBE <sup>†</sup>	0.0206		%		Poported in million	ame per cerving)		
CBG <sup>†</sup>	0.0247		%		(Reported in milligrams per serving)			
CBN	0.00953		%					
CBT <sup>†</sup>	0.0560		%					
Δ9-THC	0.128		%					
Analyte per 28.5g	Result	Limits	Units	Status				
CBC per 28.5g <sup>†</sup>	23.6		mg/28.5g					
CBD per 28.5g	884		mg/28.5g					
CBDV per 28.5g <sup>†</sup>	5.22		mg/28.5g					
CBE per 28.5g <sup>†</sup>	5.87		mg/28.5g					
CBG per 28.5g <sup>†</sup>	7.04		mg/28.5g					
CBN per 28.5g	2.72		mg/28.5g					
CBT per 28.5g <sup>†</sup>	16.0		mg/28.5g					
Δ9-THC per 28.5g	36.5		mg/28.5g					





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**Customer:** Healthy Roots

Product identity: #181, 800 Pet

Client/Metrc ID:

Sample Date:

**Laboratory ID:** 21-013253-0004

Evidence of Cooling: No
Temp: 20.7 °C
Relinquished by: Client
Serving Size #1: 28.5 g

# **Sample Results**

Potency	<b>Method</b> J AOA	C 2015 V98-6 (mod)	Units %	<b>Batch:</b> 2110535	<b>Analyze:</b> 11/19/21 11:29:00 P
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0828		%	0.0033	
CBC-A <sup>†</sup>	< LOQ		%	0.0033	
CBC-Total <sup>†</sup>	0.0828		%	0.0062	
CBD	3.10		%	0.0328	
CBD-A	< LOQ		%	0.0033	
CBD-Total	3.10		%	0.0357	
CBDV <sup>†</sup>	0.0183		%	0.0033	
CBDV-A <sup>†</sup>	< LOQ		%	0.0033	
CBDV-Total <sup>†</sup>	0.0183		%	0.0061	
CBE <sup>†</sup>	0.0206		%	0.0033	
CBG <sup>†</sup>	0.0247		%	0.0033	
CBG-A <sup>†</sup>	< LOQ		%	0.0033	
CBG-Total	0.0247		%	0.0061	
CBL <sup>†</sup>	< LOQ		%	0.0033	
CBL-A <sup>†</sup>	< LOQ		%	0.0033	
CBL-Total <sup>†</sup>	< LOQ		%	0.0062	
CBN	0.00953		%	0.0033	
CBT <sup>†</sup>	0.0560		%	0.0033	
$\Delta 8$ -THCV	< LOQ		%	0.0033	
$\Delta 8 ext{-THC}^\dagger$	< LOQ		%	0.0033	
Δ9-THC	0.128		%	0.0033	
THC-A	< LOQ		%	0.0033	
THC-Total	0.128		%	0.0062	
THCV <sup>†</sup>	< LOQ		%	0.0033	
THCV-A <sup>†</sup>	< LOQ		%	0.0033	
THCV-Total <sup>†</sup>	< LOQ		%	0.0061	
Total Cannabinoids <sup>†</sup>	3.44		%		

Potency per 28.5g	Method J AOA	AC 2015 V98-6 (m	nod) <b>Units</b> mg/se <b>Ba</b>	tch: 2110535	<b>Analyze:</b> 11/19/21 11:29:00 P
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g <sup>†</sup>	23.6		mg/28.5g	0.935	
CBC-A per 28.5g <sup>†</sup>	< LOQ		mg/28.5g	0.935	
CBC-Total per 28.5g <sup>†</sup>	23.6		mg/28.5g	1.76	

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**Report Number:** 21-013253/D002.R001

**Report Date:** 11/23/2021 ORELAP#: OR100028

**Purchase Order:** 

11/10/21 14:36 Received:

Potency per 28.5g	Method J AO	AC 2015 V98-6 (mod) Units mg/se Bat	tch: 2110535	<b>Analyze:</b> 11/19/21 11:29:00 P
Analyte	Result	Limits Units	LOQ	Notes
CBD per 28.5g	884	mg/28.5g	9.35	
CBD-A per 28.5g	< LOQ	mg/28.5g	0.935	
CBD-Total per 28.5g	884	mg/28.5g	10.2	
CBDV per 28.5g <sup>†</sup>	5.22	mg/28.5g	0.935	
CBDV-A per 28.5g <sup>†</sup>	< LOQ	mg/28.5g	0.935	
CBDV-Total per 28.5g <sup>†</sup>	5.22	mg/28.5g	1.75	
CBE per 28.5g <sup>†</sup>	5.87	mg/28.5g	0.935	
CBG per 28.5g <sup>†</sup>	7.04	mg/28.5g	0.935	
CBG-A per 28.5g <sup>†</sup>	< LOQ	mg/28.5g	0.935	
CBG-Total per 28.5g <sup>†</sup>	7.04	mg/28.5g	1.75	
CBL per 28.5g <sup>†</sup>	< LOQ	mg/28.5g	0.935	
CBL-A per 28.5g <sup>†</sup>	< LOQ	mg/28.5g	0.935	
CBL-Total per 28.5g <sup>†</sup>	< LOQ	mg/28.5g	1.76	
CBN per 28.5g	2.72	mg/28.5g	0.935	
CBT per 28.5g <sup>†</sup>	16.0	mg/28.5g	0.935	
$\Delta 8$ -THCV per 28.5g $^{\dagger}$	< LOQ	mg/28.5g	0.935	
$\Delta 8$ -THC per 28.5g $^{\dagger}$	< LOQ	mg/28.5g	0.935	
Δ9-THC per 28.5g	36.5	mg/28.5g	0.935	
exo-THC per 28.5g <sup>†</sup>	< LOQ	mg/28.5g	0.935	
THC-A per 28.5g	< LOQ	mg/28.5g	0.935	
THC-Total per 28.5g	36.5	mg/28.5g	1.76	
THCV per 28.5g <sup>†</sup>	< LOQ	mg/28.5g	0.935	
THCV-A per 28.5g <sup>†</sup>	< LOQ	mg/28.5g	0.935	
THCV-Total per 28.5g <sup>†</sup>	< LOQ	mg/28.5g	1.76	
Total Cannabinoids per 28.5g	980	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.

† = Analyte not NELAP accredited.

# Units of Measure

g = Gram mg/28.5g = Milligram per 28.5g% = Percentage of sample % wt =  $\mu g/g$  divided by 10,000

Approved Signatory

Derrick Tanner General Manager





**Report Number:** 

21-013253/D002.R001

Report Date:

11/23/2021

ORELAP#:

OR100028

**Purchase Order:** 

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11/10/21 14:36



## Hemp / Cannabis Usable / Extract / Finished Products **Chain of Custody Record**

Revision: 4.00 Control#: CF023 Rev 02/24/2021 Eff: 03/04/2021 ORELAP ID: OR100028

						Α	nalysi	s Req	ueste	d			5	p	O Number:	
Company:  CHAIN OF CL Company: Healthy Roots Contact: Liz Merritt Address: 14325 NE Airpo Portland, OR 97 Email: Healthy rootshem Phone: 503-496-2329 License: AG-L 1052211FP Building if airrerent; LOMPHANCE & healthy root ab D Client Sample Identification  #7, BB Base  #178, 200 Root Buffar  #179, 200 Pet  #181, 800 Pet	rt Way, #1 7230 @gmail.co Shemy Date	om + add	المالية Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals		nc Mate c pulococc	Sampled Sample	t Number ject Name: Reporting: o State N ind time: by: 	AETRC or Other:  5 Business Day Standard Turnaround 3 Business Day Rush Turnaround  *Check for availability  Comments/Metrc ID  Please do 2 day  Rush turnaround  on this item only  For rest of tests  Report in mg/gr  and  """  """  """  """  """  """  ""  ""
Relinquished By:	Date	Time		<u></u>	Re	eceivec	lBy:	<u> </u>		D	ate	Tir	ne			Lab Use Only:
Merritt	11/10	2:15p				D	5			nji	12/21	14:	36	Evidenc Sample Cash	e of cooling: ( in good condi	op Client drop  Yes Le No - Temp (°C):

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

Page of Samples submitted to 12423 NE Whitaker Way Page \_\_\_\_of\_\_ www.columbialaboratories.com Portland, OR 97230 info@columbialaboratories.com





**Report Number:** 21-013253/D002.R001

11/23/2021 Report Date: ORELAP#: OR100028

**Purchase Order:** 

Received: 11/10/21 14:36

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

		Labor	atory	Quality Co	ontrol I	Resu	lts		
<b>JAOAC2015 V9</b>	986			Bate	ch ID:	211	0535		
Laboratory Contr	ol Sample								
Analyte	Result	Spike	Units	% Rec	L	_imits	3	Evaluation	Notes
CBDVA	0.0100	0.01	%	100	85.0	-	115	Acceptable	
CBDV	0.0110	0.01	%	110	85.0	-	115	Acceptable	
CBE	0.00987	0.01	%	98.7	85.0	-	115	Acceptable	
CBDA	0.0101	0.01	%	101	85.0	-	115	Acceptable	
CBGA	0.0101	0.01	%	101	85.0	-	115	Acceptable	
CBG	0.0102	0.01	%	102	85.0	-	115	Acceptable	
CBD	0.00985	0.01	%	98.5	85.0	-	115	Acceptable	
THCV	0.0101	0.01	%	101	85.0	-	115	Acceptable	
d8THCV	0.00950	0.01	%	95.0	85.0	-	115	Acceptable	
THCVA	0.00985	0.01	%	98.5	85.0	-	115	Acceptable	
CBN	0.00993	0.01	%	99.3	85.0	-	115	Acceptable	
exo-THC	0.00908	0.01	%	90.8	85.0	-	115	Acceptable	
d9THC	0.00961	0.01	%	96.1	85.0	-	115	Acceptable	
d8THC	0.0102	0.01	%	102	85.0	-	115	Acceptable	
CBL	0.00981	0.01	%	98.1	85.0	-	115	Acceptable	
CBC	0.0105	0.01	%	105	85.0	-	115	Acceptable	
THCA	0.00984	0.01	%	98.4	85.0	-	115	Acceptable	
CBCA	0.0104	0.01	%	104	85.0	-	115	Acceptable	
CBLA	0.00986	0.01	%	98.6	85.0	-	115	Acceptable	
CBT	0.0113	0.01	%	113	85.0	-	115	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBDV	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBE	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBDA	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBGA	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBG	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBD	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
THCV	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
d8THCV	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
THCVA	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBN	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 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>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
d9THC	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
d8THC	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBL	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBC	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
THCA	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBCA	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBLA	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBT	<loq< td=""><td>0.003</td><td>%</td><td>&lt; 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





**Report Number:** 21-013253/D002.R001

11/23/2021 Report Date: ORELAP#: OR100028

**Purchase Order:** 

Received: 11/10/21 14:36

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

## Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2110535								
Sample Duplica	ate				Samp	ole ID: 21-01075	54-0004	
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>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
CBDV	0.00675	0.00689	0.003	%	2.04	< 20	Acceptable	
CBE	0.00815	0.00830	0.003	%	1.82	< 20	Acceptable	
CBDA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 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>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 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>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
CBD	2.17	2.19	0.003	%	0.617	< 20	Acceptable	
THCV	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 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>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 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>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 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>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 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>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 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>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 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>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 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>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 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>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 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>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 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>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 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>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 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>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>&lt; 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





**Report Number:** 21-013253/D002.R001

**Report Date:** 11/23/2021 ORELAP#: OR100028

**Purchase Order:** 

11/10/21 14:36 Received:

# 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	Quantitaion level raised due to matrix interference.
В	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.