Lazarus Naturals

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU GMY.IMM25 **BATCH #** 220308

PRODUCT NAME CBD Gummies - Elderberry **SERVING SIZE** 2 gummies (~10g)

LABORATORY: Columbia Laboratories **OREGON ACCREDITATION:** OR100028

LOQ: Limit Of Quantitation
LOD: Limit Of Detection

1 g = 10^{-3} kg = 10^{3} mg = 10^{6} µg 1 mg/kg = 1 ppm = 1000 ppb

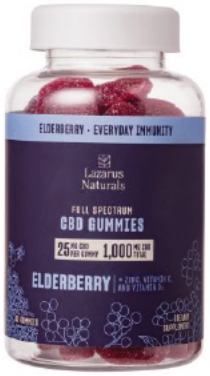
POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	**55.30 mg/serving**	5.53 mg/g	0.55 %
Total THC (d9-THC, THCA)	**2.20 mg/serving**	0.22 mg/g	0.02 %
Cannabigerol (CBG)	**1.24 mg/serving**	0.12 mg/g	0.01 %
Cannabinol (CBN)	**<LOQ mg/serving**	<LOQ mg/g	<LOQ %
Cannabichromene (CBC)	**1.94 mg/serving**	0.19 mg/g	0.02 %
Tetrahydrocannabinolic Acid (THCA)	**<LOQ mg/serving**	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	**2.20 mg/serving**	0.22 mg/g	0.02 %
Delta-8-THC (d8-THC)	**<LOQ mg/serving**	<LOQ mg/g	<LOQ %

HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	**<LOQ µg/serving**	<LOQ µg/g	10 µg/day [1]
Cadmium	**<LOQ µg/serving**	<LOQ µg/g	4.1 µg/day [1]
Lead	**<LOQ µg/serving**	<LOQ µg/g	3.5 µg/day [2]
Mercury	**<LOQ µg/serving**	<LOQ µg/g	2 µg/day [1]

PESTICIDES	REGULATORY ACTION LEVEL
None of the other 59 pesticides tested found above limit of detection in the sample.	10 ppb [1]

RESIDUAL SOLVENTS	Results	REGULATORY ACTION LEVEL
Ethanol	524	50,000 mg/day
Heptane	<LOQ	50,000 mg/day
None of the 34 residual solvents tested found above limit of quantitation in the sample.		

MICROBIAL	PASS/FAIL
Yeast & Mold	Pass
Coliform	Pass



1. American Herbal Pharmacopoeia. (2014). Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control. Washington DC: AHP.
2. US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA.US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA.

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 22-009603/D015.R000
Report Date: 08/22/2022
ORELAP#: OR100028
Purchase Order:
Received: 08/11/22 15:58

Customer: Etz Hayim Holdings
Product identity: FORM-GMY.IMM25-220308
Client/Metrc ID: .
Laboratory ID: 22-009603-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status
CBC per 1g	0.194		mg/1g	
CBD per 1g	5.53		mg/1g	
CBE per 1g	0.0651		mg/1g	
CBG per 1g	0.124		mg/1g	
CBT per 1g	0.0779		mg/1g	
Δ9-THC per 1g	0.220		mg/1g	

CBD-Total per Serving Size 5.53 mg/1g

THC-Total per Serving Size 0.220 mg/1g

(Reported in milligrams per serving)

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Ethanol	524		

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.

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

Report Number: 22-009603/D015.R000
Report Date: 08/22/2022
ORELAP#: OR100028
Purchase Order:
Received: 08/11/22 15:58

Customer: Etz Hayim Holdings
16427 NE Airport Way
PORTLAND 97230
United States of America (USA)

Product identity: FORM-GMY.IMM25-220308
Client/Metrc ID: .
Sample Date:
Laboratory ID: 22-009603-0001
Evidence of Cooling: No
Temp: 23.8 °C
Relinquished by: Client
Serving Size #1: 1 g

Sample Results

Potency per 1g **Method:** J AOAC 2015 V98-6 (mod)[b] **Units** mg/se **Batch:** 2206862 **Analyze:** 8/13/22 1:36:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	0.194		mg/1g	0.0323	
CBC-A per 1g	< LOQ		mg/1g	0.0323	
CBC-Total per 1g	0.194		mg/1g	0.0607	
CBD per 1g	5.53		mg/1g	0.0323	
CBD-A per 1g	< LOQ		mg/1g	0.0323	
CBD-Total per 1g	5.53		mg/1g	0.0607	
CBDV per 1g	< LOQ		mg/1g	0.0323	
CBDV-A per 1g	< LOQ		mg/1g	0.0323	
CBDV-Total per 1g	< LOQ		mg/1g	0.0604	
CBE per 1g	0.0651		mg/1g	0.0323	
CBG per 1g	0.124		mg/1g	0.0323	
CBG-A per 1g	< LOQ		mg/1g	0.0323	
CBG-Total per 1g	0.124		mg/1g	0.0604	
CBL per 1g	< LOQ		mg/1g	0.0323	
CBL-A per 1g	< LOQ		mg/1g	0.0323	
CBL-Total per 1g	< LOQ		mg/1g	0.0607	
CBN per 1g	< LOQ		mg/1g	0.0323	
CBT per 1g	0.0779		mg/1g	0.0323	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0323	
Δ8-THC per 1g	< LOQ		mg/1g	0.0323	
Δ9-THC per 1g	0.220		mg/1g	0.0323	
exo-THC per 1g	< LOQ		mg/1g	0.0323	
THC-A per 1g	< LOQ		mg/1g	0.0323	
THC-Total per 1g	0.220		mg/1g	0.0607	
THCV per 1g	< LOQ		mg/1g	0.0323	
THCV-A per 1g	< LOQ		mg/1g	0.0323	
THCV-Total per 1g	< LOQ		mg/1g	0.0607	
Total Cannabinoids per 1g	6.21		mg/1g		

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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2206803	08/14/22	AOAC 991.14 (Petrifilm)þ		
Total Coliforms	< LOQ		cfu/g	10	2206803	08/14/22	AOAC 991.14 (Petrifilm)þ		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2206804	08/15/22	AOAC 2014.05 (RAPID)þ		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2206804	08/15/22	AOAC 2014.05 (RAPID)þ		

Solvents

Method: Residual Solvents by GC/MSþ **Units** µg/g **Batch** 2207080 **Analyze** 08/22/22 10:36 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethy butane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethy butane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		Ethanol	524		200		
Ethyl acetate	< LOQ	5000	200	pass		Ethyl benzene	< LOQ		200		
Ethyl ether	< LOQ	5000	200	pass		Ethylene glycol	< LOQ	620	200	pass	
Ethylene oxide	< LOQ	50.0	20.0	pass		Hexanes (sum)	< LOQ	290	150	pass	
Isopropyl acetate	< LOQ	5000	200	pass		Isopropylbenzene (Cumene)	< LOQ	70.0	30.0	pass	
m,p-Xylene	< LOQ		200			Methanol	< LOQ	3000	200	pass	
Methylene chloride	< LOQ	600	60.0	pass		Methylpropane (Isobutane)	< LOQ		200		
n-Butane	< LOQ		200			n-Heptane	< LOQ	5000	200	pass	
n-Hexane	< LOQ		30.0			n-Pentane	< LOQ		200		
o-Xylene	< LOQ		200			Pentanes (sum)	< LOQ	5000	600	pass	
Propane	< LOQ	5000	200	pass		Tetrahydrofuran	< LOQ	720	100	pass	
Toluene	< LOQ	890	100	pass		Total Xylenes	< LOQ		400		
Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass							

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Pesticides

Method: AOAC 2007.01 & EN 15662 (mod)þ **Units** mg/kg **Batch** 2206908 **Analyze** 08/16/22 11:32 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin¥	< LOQ	0.50	0.250	pass		Acephate¥	< LOQ	0.40	0.250	pass	
Acequinocyl¥	< LOQ	2.0	1.00	pass		Acetamiprid¥	< LOQ	0.20	0.100	pass	
Aldicarb¥	< LOQ	0.40	0.200	pass		Azoxystrobin¥	< LOQ	0.20	0.100	pass	
Bifenazate¥	< LOQ	0.20	0.100	pass		Bifenthrin¥	< LOQ	0.20	0.100	pass	
Boscalid¥	< LOQ	0.40	0.200	pass		Carbaryl¥	< LOQ	0.20	0.100	pass	
Carbofuran¥	< LOQ	0.20	0.100	pass		Chlorantraniliprole¥	< LOQ	0.20	0.100	pass	
Chlorfenapyr¥	< LOQ	1.0	0.500	pass		Chlorpyrifos¥	< LOQ	0.20	0.100	pass	
Clofentezine¥	< LOQ	0.20	0.100	pass		Cyfluthrin¥	< LOQ	1.0	0.500	pass	
Cypermethrin¥	< LOQ	1.0	0.500	pass		Daminozide¥	< LOQ	1.0	0.500	pass	
Diazinon¥	< LOQ	0.20	0.100	pass		Dichlorvos¥	< LOQ	1.0	0.500	pass	
Dimethoate¥	< LOQ	0.20	0.100	pass		Ethoprophos¥	< LOQ	0.20	0.100	pass	
Etofenprox¥	< LOQ	0.40	0.200	pass		Etoxazole¥	< LOQ	0.20	0.100	pass	
Fenoxycarb¥	< LOQ	0.20	0.100	pass		Fenpyroximate¥	< LOQ	0.40	0.200	pass	
Fipronil¥	< LOQ	0.40	0.200	pass		Flonicamid¥	< LOQ	1.0	0.400	pass	
Fludioxonil¥	< LOQ	0.40	0.200	pass		Hexythiazox¥	< LOQ	1.0	0.400	pass	
Imazalil¥	< LOQ	0.20	0.100	pass		Imidacloprid¥	< LOQ	0.40	0.200	pass	
Kresoxim-methyl¥	< LOQ	0.40	0.200	pass		Malathion¥	< LOQ	0.20	0.100	pass	
Metalaxyl¥	< LOQ	0.20	0.100	pass		Methiocarb¥	< LOQ	0.20	0.100	pass	
Methomyl¥	< LOQ	0.40	0.200	pass		MGK-264¥	< LOQ	0.20	0.100	pass	
Myclobutanil¥	< LOQ	0.20	0.100	pass		Naled¥	< LOQ	0.50	0.250	pass	
Oxamyl¥	< LOQ	1.0	0.500	pass		Paclobutrazole¥	< LOQ	0.40	0.200	pass	
Parathion-Methyl¥	< LOQ	0.20	0.200	pass		Permethrin¥	< LOQ	0.20	0.100	pass	
Phosmet¥	< LOQ	0.20	0.100	pass		Piperonyl butoxide¥	< LOQ	2.0	1.00	pass	
Prallethrin¥	< LOQ	0.20	0.200	pass		Propiconazole¥	< LOQ	0.40	0.200	pass	
Propoxur¥	< LOQ	0.20	0.100	pass		Pyrethrin I (total)¥	< LOQ	1.0	0.500	pass	
Pyridaben¥	< LOQ	0.20	0.100	pass		Spinosad¥	< LOQ	0.20	0.100	pass	
Spiromesifen¥	< LOQ	0.20	0.100	pass		Spirotetramat¥	< LOQ	0.20	0.100	pass	
Spiroxamine¥	< LOQ	0.40	0.200	pass		Tebuconazole¥	< LOQ	0.40	0.200	pass	
Thiacloprid¥	< LOQ	0.20	0.100	pass		Thiamethoxam¥	< LOQ	0.20	0.100	pass	
Trifloxystrobin¥	< LOQ	0.20	0.100	pass							

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0160	2206926	08/16/22	AOAC 2013.06 (mod.)þ	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0160	2206926	08/16/22	AOAC 2013.06 (mod.)þ	pass	
Lead	< LOQ	0.500	mg/kg	0.0160	2206926	08/16/22	AOAC 2013.06 (mod.)þ	pass	
Mercury	< LOQ	0.100	mg/kg	0.00798	2206926	08/16/22	AOAC 2013.06 (mod.)þ	pass	

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	22-009603/D015.R000
Report Date:	08/22/2022
ORELAP#:	OR100028
Purchase Order:	
Received:	08/11/22 15:58

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.
¥ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram
g = g
µg/g = Microgram per gram
mg/kg = Milligram per kilogram = parts per million (ppm)
mg/1g = Milligram per 1g
% = Percentage of sample
% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

Columbia LABORATORIES
A Tentamus Company

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Portland, OR 97230
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PIXIS Labs
A Tentamus Company

E Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

ORELAP ID: OR100028

[redacted]

Purchase Order Number:
Project Number:
Project Name:

☐ Report Instructions:
☐ Send to State - METRC
☑ Email Final Results:
☐ Fax Final Results
☐ Cash/Check/CC/Net 30
Other:

Field ID	Date/Time Collected		Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: *E.Coli* and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metrc ID
FORM-GMY.IMM25-220308			X		X	X				X	X	X			Edible		mg/g	LazNat Discount
FORM-GMY.IMM25-222907			X		X	X				X	X	X			Edible		mg/g	Parallel Path (all)
CYCL-GMY.D9.WTR5-222807			X		X	X				X	X	X			Edible		mg/g	
CYCL-GMY.D9.HB5-222507			X		X	X				X	X	X			Edible		mg/g	
CYCL-GMY.D9.HB5-222707			X		X	X				X	X	X			Edible		mg/g	
CYCL-GMY.D9.BR10-220508			X		X	X				X	X	X			Edible		mg/g	
FORM-GMY.IMM25-220108			X		X	X				X	X	X			Edible		mg/g	

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time
☑Standard (5 day)	[redacted]					
☐Rush (3-4 day) (1.5x Standard)						
☐Priority Rush (2 day) (2x Standard)						

Lab Use Only:
Client Alias:
Order Number:
Proper Container
Sample Condition
Temperature: 23.8
Shipped Via:
Evidence of cooling: ☐Yes ☑No

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Revision: 1.02 Control#: CF023
Effective 01/31/2019 Revised 01/31/2019

www.pixislabs.com

Page 1 of 2

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 22-009603/D015.R000
Report Date: 08/22/2022
ORELAP#: OR100028
Purchase Order:
Received: 08/11/22 15:58

Revision 1 Documen D 7148
Legacy D Workshee Valida ed 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2206862**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	1	0.0352	0.033	%	106	80.0 - 120	Acceptable	
CBDV	1	0.0380	0.033	%	114	80.0 - 120	Acceptable	
CBE	1	0.0348	0.033	%	104	80.0 - 120	Acceptable	
CBDA	1	0.0332	0.032	%	104	90.0 - 110	Acceptable	
CBGA	1	0.0332	0.032	%	103	80.0 - 120	Acceptable	
CBG	1	0.0356	0.034	%	105	80.0 - 120	Acceptable	
CBD	1	0.0353	0.033	%	106	90.0 - 110	Acceptable	
THCV	1	0.0352	0.033	%	105	80.0 - 120	Acceptable	
d8THCV	1	0.0357	0.033	%	107	80.0 - 120	Acceptable	
THCVA	1	0.0328	0.033	%	98.5	80.0 - 120	Acceptable	
CBN	1	0.0361	0.034	%	106	90.0 - 110	Acceptable	
exo-THC	1	0.0343	0.033	%	103	80.0 - 120	Acceptable	
d9THC	1	0.0373	0.037	%	101	90.0 - 110	Acceptable	
d8THC	1	0.0331	0.033	%	99.2	90.0 - 110	Acceptable	
CBL	1	0.0321	0.033	%	96.3	80.0 - 120	Acceptable	
CBC	1	0.0351	0.033	%	105	80.0 - 120	Acceptable	
THCA	1	0.0333	0.032	%	105	90.0 - 110	Acceptable	
CBCA	1	0.0332	0.033	%	99.5	80.0 - 120	Acceptable	
CBLA	1	0.0344	0.033	%	103	80.0 - 120	Acceptable	
CBT	1	0.0320	0.033	%	96.0	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	
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

Units of Measure:

% - Percent

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Revision 1 Documen D 7148
Legacy D Workshee Valida ed 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6					Batch ID: 2206862			
Sample Duplicate					Sample ID 22-009533-0001			
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	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0080	0.0079	0.003	%	0.811	< 20	Acceptable	
CBD	0.0038	0.0041	0.003	%	8.37	< 20	Acceptable	
THCV	0.0043	0.0043	0.003	%	0.265	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.0051	0.0050	0.003	%	1.70	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.277	0.272	0.003	%	1.57	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0052	0.0051	0.003	%	1.78	< 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:

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 22-009603/D015.R000
Report Date: 08/22/2022
ORELAP#: OR100028
Purchase Order:
Received: 08/11/22 15:58

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662			Units: mg/Kg						Batch ID: 2206908
Method Blank				Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits		Notes
Abamectin	0.000	< 0.125		0.529	0.500	105.8	50.0	150	
Acephate	0.000	< 0.125		0.520	0.500	104.1	60.0	120	
Acequinocyl	0.000	< 0.500		2.014	2.000	100.7	40.0	160	
Acetamiprid	0.000	< 0.050		0.206	0.200	103.2	60.0	120	
Aldicarb	0.000	< 0.100		0.409	0.400	102.2	60.0	120	
Azoxystrobin	0.000	< 0.050		0.196	0.200	98.1	60.0	120	
Bifenazate	0.000	< 0.050		0.203	0.200	101.3	60.0	120	
Bifenthrin	0.001	< 0.050		0.206	0.200	102.9	50.0	150	
Boscalid	0.000	< 0.100		0.398	0.400	99.4	60.0	120	
Carbaryl	0.000	< 0.050		0.212	0.200	106.1	60.0	120	
Carbofuran	0.000	< 0.050		0.205	0.200	102.5	60.0	120	
Chlorantraniliprole	0.000	< 0.050		0.196	0.200	97.8	60.0	120	
Chlorfenapyr	0.000	< 0.250		0.602	1.000	60.2	60.0	120	
Chlorpyrifos	0.006	< 0.050		0.193	0.200	96.7	60.0	120	
Clofentezine	0.000	< 0.050		0.076	0.200	***38.2***	60.0	120	Q6
Cyfluthrin	0.000	< 0.250		0.939	1.000	93.9	50.0	150	
Cypermethrin	0.007	< 0.250		1.017	1.000	101.7	50.0	150	
Daminozide	0.004	< 0.250		0.379	1.000	***37.9***	60.0	120	Q6
Diazinon	0.000	< 0.050		0.206	0.200	103.0	60.0	120	
Dichlorvos	0.000	< 0.250		1.104	1.000	110.4	60.0	120	
Dimethoate	0.002	< 0.050		0.208	0.200	104.0	60.0	120	
Ethoprophos	0.000	< 0.050		0.208	0.200	104.0	60.0	120	
Etofenprox	0.000	< 0.100		0.388	0.400	96.9	50.0	150	
Etoxazole	0.000	< 0.050		0.201	0.200	100.3	60.0	120	
Fenoxycarb	0.000	< 0.050		0.212	0.200	106.2	60.0	120	
Fenpyroximate	0.000	< 0.100		0.423	0.400	105.7	60.0	120	
Fipronil	0.018	< 0.100		0.397	0.400	99.1	60.0	120	
Flonicamid	0.000	< 0.125		0.466	0.500	93.1	60.0	120	
Fludioxonil	0.000	< 0.100		0.382	0.400	95.5	50.0	150	
Hexythiazox	0.000	< 0.125		0.532	0.500	106.3	60.0	120	
Imazalil	0.000	< 0.050		0.197	0.200	98.5	60.0	120	
Imidacloprid	0.000	< 0.100		0.418	0.400	104.6	60.0	120	
Kresoxim methyl	0.000	< 0.100		0.414	0.400	103.5	60.0	120	
Malathion	0.003	< 0.050		0.203	0.200	101.4	60.0	120	
Metalaxyl	0.003	< 0.050		0.208	0.200	104.1	60.0	120	
Methiocarb	0.002	< 0.050		0.197	0.200	98.4	60.0	120	
Methomyl	0.000	< 0.100		0.418	0.400	104.5	60.0	120	
MGK 264	0.000	< 0.050		0.211	0.200	105.4	50.0	150	
Myclobutanil	0.004	< 0.050		0.209	0.200	104.6	60.0	120	
Naled	0.000	< 0.125		0.043	0.500	***8.5***	50.0	150	Q6
Oxamyl	0.000	< 0.250		1.053	1.000	105.3	60.0	120	
Paclobutrazole	0.000	< 0.100		0.442	0.400	110.6	60.0	120	
Parathion Methyl	0.000	< 0.100		0.423	0.400	105.7	50.0	150	
Permethrin	0.000	< 0.050		0.206	0.200	103.1	50.0	150	
Phosmet	0.000	< 0.050		0.215	0.200	107.5	50.0	150	
Piperonyl butoxide	0.000	< 0.250		1.047	1.000	104.7	60.0	120	
Prallethrin	0.005	< 0.050		0.211	0.200	105.6	60.0	120	
Propiconazole	0.000	< 0.100		0.424	0.400	105.9	60.0	120	
Propoxur	0.000	< 0.050		0.202	0.200	101.2	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.216	0.207	104.8	60.0	120	
Pyridaben	0.000	< 0.050		0.208	0.200	104.1	50.0	150	
Spinosad	0.000	< 0.100		0.207	0.194	106.9	50.0	150	
Spiromesifen	0.000	< 0.050		0.219	0.200	109.7	60.0	120	
Spirotetramat	0.000	< 0.050		0.199	0.200	99.7	60.0	120	
Spiroxamine	0.000	< 0.100		0.408	0.400	101.9	60.0	120	
ebuconazole	0.000	< 0.100		0.428	0.400	107.0	60.0	120	
hiacloprid	0.000	< 0.050		0.206	0.200	103.1	60.0	120	
hiamethoxam	0.000	< 0.050		0.205	0.200	102.7	60.0	120	
rifloxystrobin	0.000	< 0.050		0.208	0.200	103.9	60.0	120	

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662	Units: mg/Kg								Batch ID: 2206908		
Matrix Spike/Matrix Spike Duplicate Recoveries							Sample ID: 22-009526-0001				
Analyte	**Result**	**MS Res**	**MSD Res**	**Spike**	**RPD%**	**Limit**	**MS % Rec**	**MSD % Rec**	**Limits**		**Notes**
Abamectin	0.000	0.431	0.433	0.500	0.5%	< 30	86.2%	86.7%	50	150	
Acephate	0.000	0.527	0.500	0.500	5.3%	< 30	105.4%	100.0%	50	150	
Acequinocyl	0.000	0.098	0.103	2.000	4.8%	< 30	4.9%	5.1%	50	150	Q
Acetamiprid	0.007	0.249	0.240	0.200	3.8%	< 30	120.8%	116.3%	50	150	
Aldicarb	0.000	0.455	0.449	0.400	1.5%	< 30	113.9%	112.1%	50	150	
Azoxystrobin	0.000	0.223	0.209	0.200	6.4%	< 30	111.3%	104.4%	50	150	
Bifenazate	0.000	0.116	0.113	0.200	3.1%	< 30	58.1%	56.3%	50	150	
Bifenthrin	0.000	0.198	0.198	0.200	0.1%	< 30	98.9%	98.8%	50	150	
Boscalid	0.000	0.338	0.332	0.400	1.9%	< 30	84.5%	82.9%	50	150	
Carbaryl	0.000	0.234	0.237	0.200	1.4%	< 30	117.1%	118.7%	50	150	
Carbofuran	0.000	0.237	0.232	0.200	2.3%	< 30	118.6%	115.9%	50	150	
Chlorantraniliprole	0.000	0.178	0.178	0.200	0.1%	< 30	89.0%	89.1%	50	150	
Chlorfenapyr	0.156	1.152	1.200	1.000	4.8%	< 30	99.5%	104.4%	50	150	
Chlorpyrifos	0.000	0.192	0.190	0.200	1.0%	< 30	95.9%	95.0%	50	150	
Clofentezine	0.000	0.192	0.195	0.200	1.2%	< 30	96.2%	97.4%	50	150	
Cyfluthrin	0.000	1.002	1.016	1.000	1.3%	< 30	100.2%	101.6%	30	150	
Cypermethrin	0.000	0.902	0.905	1.000	0.2%	< 30	90.2%	90.5%	50	150	
Daminozide	0.000	0.431	0.415	1.000	3.9%	< 30	43.1%	41.5%	30	150	
Diazinon	0.000	0.211	0.199	0.200	6.1%	< 30	105.6%	99.4%	50	150	
Dichlorvos	0.007	1.202	1.122	1.000	6.9%	< 30	119.5%	111.6%	50	150	
Dimethoate	0.000	0.227	0.221	0.200	2.8%	< 30	113.6%	110.5%	50	150	
Ethoprophos	0.000	0.200	0.204	0.200	2.1%	< 30	100.0%	102.1%	50	150	
Etofenprox	0.000	0.404	0.389	0.400	4.0%	< 30	101.1%	97.2%	50	150	
Etoxazole	0.000	0.215	0.198	0.200	8.3%	< 30	107.4%	98.9%	50	150	
Fenoxycarb	0.000	0.223	0.217	0.200	2.9%	< 30	111.7%	108.5%	50	150	
Fenpyroximate	0.000	0.333	0.333	0.400	0.2%	< 30	83.1%	83.3%	50	150	
Fipronil	0.000	0.475	0.492	0.400	3.5%	< 30	118.8%	123.1%	50	150	
Flonicamid	0.000	0.484	0.461	0.500	4.8%	< 30	96.8%	92.2%	50	150	
Fludioxonil	0.000	0.409	0.382	0.400	6.8%	< 30	102.2%	95.5%	50	150	
Hexythiazox	0.000	0.845	0.830	0.500	1.7%	< 30	169.0%	166.1%	50	150	Q
Imazalil	0.000	0.238	0.223	0.200	6.4%	< 30	118.9%	111.5%	50	150	
Imidacloprid	0.000	0.371	0.364	0.400	2.1%	< 30	92.8%	90.9%	50	150	
Kresoxim methyl	0.000	0.430	0.418	0.400	2.9%	< 30	107.6%	104.5%	50	150	
Malathion	0.000	0.203	0.200	0.200	1.3%	< 30	101.3%	100.1%	50	150	
Metalaxyl	0.000	0.216	0.215	0.200	0.5%	< 30	108.2%	107.6%	50	150	
Methiocarb	0.002	0.202	0.202	0.200	0.1%	< 30	100.2%	100.3%	50	150	
Methomyl	0.000	0.396	0.383	0.400	3.3%	< 30	99.0%	95.7%	50	150	
MGK 264	0.000	0.225	0.223	0.200	0.7%	< 30	112.5%	111.7%	50	150	
Myclobutanil	0.000	0.194	0.182	0.200	6.1%	< 30	96.9%	91.1%	50	150	
Naled	0.000	0.474	0.470	0.500	0.9%	< 30	94.9%	94.0%	50	150	
Oxamyl	0.000	1.004	0.961	1.000	4.4%	< 30	100.4%	96.1%	50	150	
Paclobutrazole	0.000	0.412	0.432	0.400	4.7%	< 30	103.0%	107.9%	50	150	
Parathion Methyl	0.000	0.382	0.471	0.400	20.7%	< 30	95.6%	117.6%	30	150	
Permethrin	0.019	0.169	0.169	0.200	0.3%	< 30	75.1%	75.3%	50	150	
Phosmet	0.000	0.188	0.174	0.200	7.9%	< 30	94.1%	86.9%	50	150	
Piperonyl butoxide	0.000	1.135	1.068	1.000	6.1%	< 30	113.5%	106.8%	50	150	
Prallethrin	0.003	0.248	0.243	0.200	2.3%	< 30	122.6%	119.9%	50	150	
Propiconazole	0.021	0.430	0.434	0.400	1.0%	< 30	102.3%	103.4%	50	150	
Propoxur	0.000	0.242	0.228	0.200	6.0%	< 30	120.8%	113.8%	50	150	
Pyrethrin (Summe)	0.014	0.194	0.198	0.207	2.1%	< 30	87.1%	89.0%	50	150	
Pyridaben	0.000	0.221	0.222	0.200	0.6%	< 30	110.3%	110.9%	50	150	
Spinosad	0.000	0.209	0.217	0.194	3.6%	< 30	107.7%	111.6%	50	150	
Spiromesifen	0.000	0.351	0.360	0.200	2.6%	< 30	175.4%	180.1%	50	150	Q
Spirotetramat	0.000	0.163	0.166	0.200	1.7%	< 30	81.7%	83.1%	50	150	
Spiroxamine	0.000	0.450	0.434	0.400	3.8%	< 30	112.6%	108.4%	50	150	
ebuconazole	0.000	0.391	0.395	0.400	1.2%	< 30	97.6%	98.8%	50	150	
hiacloprid	0.000	0.228	0.225	0.200	1.2%	< 30	113.8%	112.4%	50	150	
hiamethoxam	0.000	0.200	0.207	0.200	3.3%	< 30	100.0%	103.3%	50	150	
rifloxystrobin	0.000	0.208	0.210	0.200	0.8%	< 30	104.2%	105.1%	50	150	

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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2207080

Method Blank					Laboratory Control Sample						
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**		**Notes**
Propane	ND	<	200		526	572	µg/g	92.0	60	120	
Isobutane	ND	<	200		682	731	µg/g	93.3	60	120	
Butane	ND	<	200		665	731	µg/g	91.0	60	120	
2,2 Dimethylpropane	ND	<	200		891	936	µg/g	95.2	60	120	
Methanol	ND	<	200		1410	1650	µg/g	85.5	60	120	
Ethylene Oxide	ND	<	30		51.1	56.2	µg/g	90.9	60	120	
2 Methylbutane	ND	<	200		1240	1620	µg/g	76.5	60	120	
Pentane	ND	<	200		1280	1610	µg/g	79.5	60	120	
Ethanol	ND	<	200		1400	1620	µg/g	86.4	70	130	
Ethyl Ether	ND	<	200		1330	1600	µg/g	83.1	60	120	
2,2 Dimethylbutane	ND	<	30		139	167	µg/g	83.2	60	120	
Acetone	ND	<	200		1410	1620	µg/g	87.0	60	120	
2 Propanol	ND	<	200		1430	1610	µg/g	88.8	60	120	
Ethyl Formate	ND	<	500		1300	1620	µg/g	80.2	70	130	
Acetonitrile	ND	<	100		535	635	µg/g	84.3	60	120	
Methyl Acetate	ND	<	500		1460	1630	µg/g	89.6	70	130	
2,3 Dimethylbutane	ND	<	30		158	177	µg/g	89.3	60	120	
Dichloromethane	ND	<	60		435	498	µg/g	87.3	60	120	
2 Methylpentane	ND	<	30		140	166	µg/g	84.3	60	120	
M BE	ND	<	500		1450	1600	µg/g	90.6	70	130	
3 Methylpentane	ND	<	30		148	175	µg/g	84.6	60	120	
Hexane	ND	<	30		149	174	µg/g	85.6	60	120	
1 Propanol	ND	<	500		1470	1620	µg/g	90.7	70	130	
Methylethylketone	ND	<	500		1520	1600	µg/g	95.0	70	130	
Ethyl acetate	ND	<	200		1370	1610	µg/g	85.1	60	120	
2 Butanol	ND	<	200		1400	1620	µg/g	86.4	60	120	
etrahydrofuran	ND	<	100		410	507	µg/g	80.9	60	120	
Cyclohexane	ND	<	200		1310	1610	µg/g	81.4	60	120	
2 methyl 1 propanol	ND	<	500		1450	1640	µg/g	88.4	70	130	
Benzene	ND	<	1		4.02	5.22	µg/g	77.0	60	120	
Isopropyl Acetate	ND	<	200		1350	1610	µg/g	83.9	60	120	
Heptane	ND	<	200		1300	1610	µg/g	80.7	60	120	
1 Butanol	ND	<	500		1400	1610	µg/g	87.0	70	130	
Propyl Acetate	ND	<	500		1450	1610	µg/g	90.1	70	130	
1,4 Dioxane	ND	<	100		414	508	µg/g	81.5	60	120	
2 Ethoxyethanol	ND	<	30		128	165	µg/g	77.6	60	120	
Methylisobutylketone	ND	<	500		1390	1610	µg/g	86.3	70	130	
3 Methyl 1 butanol	ND	<	500		1310	1600	µg/g	81.9	70	130	
Ethylene Glycol	ND	<	200		341	492	µg/g	69.3	60	120	
oluene	ND	<	100		386	497	µg/g	77.7	60	120	
Isobutyl Acetate	ND	<	500		1460	1610	µg/g	90.7	70	130	
1 Pentanol	ND	<	500		1380	1600	µg/g	86.3	70	130	
Butyl Acetate	ND	<	500		1430	1610	µg/g	88.8	70	130	
Ethylbenzene	ND	<	200		725	980	µg/g	74.0	60	120	
m,p Xylene	ND	<	200		725	985	µg/g	73.6	60	120	
o Xylene	ND	<	200		707	965	µg/g	73.3	60	120	
Cumene	ND	<	30		127	168	µg/g	75.6	60	120	
Anisole	ND	<	500		1280	1600	µg/g	80.0	70	130	
DMSO	ND	<	500		1280	1610	µg/g	79.5	70	130	
1,2 dimethoxyethane	ND	<	50		156	165	µg/g	94.5	70	130	
riethylamine	ND	<	500		1400	1620	µg/g	86.4	70	130	
N,N dimethylformamide	ND	<	150		418	481	µg/g	86.9	70	130	
N,N dimethylacetamide	ND	<	150		390	480	µg/g	81.3	70	130	
Pyridine	ND	<	50		159	171	µg/g	93.0	70	130	
Sulfolane	ND	<	50		137	179	µg/g	76.5	70	130	
1,2 Dichloroethane	ND	<	1		0.967	1	µg/g	96.7	70	130	
Chloroform	ND	<	1		0.97	1	µg/g	97.0	70	130	
richloroethylene	ND	<	1		0.906	1	µg/g	90.6	70	130	

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QC - Sample Duplicate **Sample ID: 22-009554-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2 Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2 Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2 Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2 Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,3 Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2 Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
M BE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3 Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
1 Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methylethylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2 Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
etrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2 methyl 1 propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1 Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4 Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2 Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3 Methyl 1 butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
oluene	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1 Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,2 dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
riethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
1,2 Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
richloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	

Abbreviations

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

Units of Measure:

µg/g Microgram per gram or ppm

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	22-009603/D015.R000
Report Date:	08/22/2022
ORELAP#:	OR100028
Purchase Order:	
Received:	08/11/22 15:58

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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	Quantitaion 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.