



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



Report Number: 22-000884/D003.R000
Report Date: 02/01/2022
ORELAP#: OR100028
Purchase Order:
Received: 01/25/22 10:49

Customer: Nutra Pure Extraction, LLC
Product identity: CBDPure 1000 (2 Units)
Client/Metric ID: Batch: 52303
Laboratory ID: 22-000884-0003

Summary

Potency:

Analyte per 60ml	Result	Limits	Units	Status	
CBC per 60ml†	45.4		mg/60ml		CBD-Total (%) 1.93 %
CBD per 60ml	1060		mg/60ml		
CBD-A per 60ml	9.05		mg/60ml		
CBDV per 60ml†	3.06		mg/60ml		CBD-Total per 60ml 1070 mg/60ml
CBE per 60ml†	10.2		mg/60ml		
CBG per 60ml†	9.11		mg/60ml		
CBN per 60ml	2.89		mg/60ml		THC-Total (%) 0.0833 %
CBT per 60ml†	21.3		mg/60ml		
Δ9-THC per 60ml	46.0		mg/60ml		

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Customer: Nutra Pure Extraction, LLC

Product identity: CBDPure 1000 (2 Units)

Client/Metric ID: Batch: 52303

Sample Date:

Laboratory ID: 22-000884-0003

Evidence of Cooling: No

Temp: 15.8 °C

Relinquished by: ups

Serving Size #1: 55.2 g

Density: 0.9200 g/ml

Sample Results

Potency per 60ml **Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2200744 Analyze: 1/27/22 4:11:00 AM**

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 60ml [†]	45.4		mg/60ml	1.81	X
CBC-A per 60ml [†]	< LOQ		mg/60ml	1.81	X
CBC-Total per 60ml [†]	45.4		mg/60ml	3.40	X, X
CBD per 60ml	1060		mg/60ml	18.1	X
CBD-A per 60ml	9.05		mg/60ml	1.81	X
CBD-Total per 60ml	1070		mg/60ml	19.7	X, X
CBDV per 60ml [†]	3.06		mg/60ml	1.81	X
CBDV-A per 60ml [†]	< LOQ		mg/60ml	1.81	X
CBDV-Total per 60ml [†]	< LOQ		mg/60ml	3.38	X, X
CBE per 60ml [†]	10.2		mg/60ml	1.81	X
CBG per 60ml [†]	9.11		mg/60ml	1.81	X
CBG-A per 60ml [†]	< LOQ		mg/60ml	1.81	X
CBG-Total per 60ml [†]	9.11		mg/60ml	3.38	X, X
CBL per 60ml [†]	< LOQ		mg/60ml	1.81	X
CBL-A per 60ml [†]	< LOQ		mg/60ml	1.81	X
CBL-Total per 60ml [†]	< LOQ		mg/60ml	3.40	X, X
CBN per 60ml	2.89		mg/60ml	1.81	X
CBT per 60ml [†]	21.3		mg/60ml	1.81	X
Δ8-THCV per 60ml [†]	< LOQ		mg/60ml	1.81	X
Δ8-THC per 60ml [†]	< LOQ		mg/60ml	1.81	X
Δ9-THC per 60ml	46.0		mg/60ml	1.81	X
exo-THC per 60ml [†]	< LOQ		mg/60ml	1.81	X
THC-A per 60ml	< LOQ		mg/60ml	1.81	X
THC-Total per 60ml	46.0		mg/60ml	3.40	X, X
THCV per 60ml [†]	< LOQ		mg/60ml	1.81	X
THCV-A per 60ml [†]	< LOQ		mg/60ml	1.81	X
THCV-Total per 60ml [†]	< LOQ		mg/60ml	3.40	X, X
Total Cannabinoids per 60ml	1210		mg/60ml		X



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2200677	01/28/22	AOAC 990.12 (Petrifilm)		X
E.coli	< LOQ		cfu/g	10	2200675	01/28/22	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2200675	01/28/22	AOAC 991.14 (Petrifilm)		X
Staphylococcus aureus	< LOQ		cfu/g	10	2200679	01/27/22	AOAC 2003.07		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2200676	01/29/22	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2200676	01/29/22	AOAC 2014.05 (RAPID)		X
E. coli, O157:H7 (by PCR)	Negative		/25g		2200683	01/27/22	AOAC 2019.03		X
Listeria spp.	Negative		/25g		2200682	01/27/22	AOAC 2019.10		X
Salmonella spp. by PCR	Negative		/25g		2200681	01/27/22	AOAC 2020.02		X

Solvents Method Residual Solvents by GC/MS Units µg/g Batch 2200784 Analyze 01/28/22 11:56 AM

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



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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2200753 Analyze 01/27/22 04:13 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass	X	Acephate	< LOQ	0.40	0.250	pass	X
Acequinocyl	< LOQ	2.0	1.00	pass	X	Acetamiprid	< LOQ	0.20	0.100	pass	X
Aldicarb	< LOQ	0.40	0.200	pass	X	Azoxystrobin	< LOQ	0.20	0.100	pass	X
Bifenazate	< LOQ	0.20	0.100	pass	X	Bifenthrin	< LOQ	0.20	0.100	pass	X
Boscalid	< LOQ	0.40	0.200	pass	X	Carbaryl	< LOQ	0.20	0.100	pass	X
Carbofuran	< LOQ	0.20	0.100	pass	X	Chlorantraniliprole	< LOQ	0.20	0.100	pass	X
Chlorfenapyr	< LOQ	1.0	0.500	pass	X	Chlorpyrifos	< LOQ	0.20	0.100	pass	X
Clofentezine	< LOQ	0.20	0.100	pass	X	Cyfluthrin	< LOQ	1.0	0.500	pass	X
Cypermethrin	< LOQ	1.0	0.500	pass	X	Daminozide	< LOQ	1.0	0.500	pass	X
Diazinon	< LOQ	0.20	0.100	pass	X	Dichlorvos	< LOQ	1.0	0.500	pass	X
Dimethoate	< LOQ	0.20	0.100	pass	X	Ethoprophos	< LOQ	0.20	0.100	pass	X
Etofenprox	< LOQ	0.40	0.200	pass	X	Etoxazole	< LOQ	0.20	0.100	pass	X
Fenoxycarb	< LOQ	0.20	0.100	pass	X	Fenpyroximate	< LOQ	0.40	0.200	pass	X
Fipronil	< LOQ	0.40	0.200	pass	X	Fonicamid	< LOQ	1.0	0.400	pass	X
Fludioxonil	< LOQ	0.40	0.200	pass	X	Hexythiazox	< LOQ	1.0	0.400	pass	X
Imazalil	< LOQ	0.20	0.100	pass	X	Imidacloprid	< LOQ	0.40	0.200	pass	X
Kresoxim-methyl	< LOQ	0.40	0.200	pass	X	Malathion	< LOQ	0.20	0.100	pass	X
Metalaxyl	< LOQ	0.20	0.100	pass	X	Methiocarb	< LOQ	0.20	0.100	pass	X
Methomyl	< LOQ	0.40	0.200	pass	X	MGK-264	< LOQ	0.20	0.100	pass	X
Myclobutanil	< LOQ	0.20	0.100	pass	X	Naled	< LOQ	0.50	0.250	pass	X
Oxamyl	< LOQ	1.0	0.500	pass	X	Paclobutrazole	< LOQ	0.40	0.200	pass	X
Parathion-Methyl	< LOQ	0.20	0.200	pass	X	Permethrin	< LOQ	0.20	0.100	pass	X
Phosmet	< LOQ	0.20	0.100	pass	X	Piperonyl butoxide	< LOQ	2.0	1.00	pass	X
Prallethrin	< LOQ	0.20	0.200	pass	X	Propiconazole	< LOQ	0.40	0.200	pass	X
Propoxur	< LOQ	0.20	0.100	pass	X	Pyrethrin I (total)	< LOQ	1.0	0.500	pass	X
Pyridaben	< LOQ	0.20	0.100	pass	X	Spinosad	< LOQ	0.20	0.100	pass	X
Spiromesifen	< LOQ	0.20	0.100	pass	X	Spirotetramat	< LOQ	0.20	0.100	pass	X
Spiroxamine	< LOQ	0.40	0.200	pass	X	Tebuconazole	< LOQ	0.40	0.200	pass	X
Thiacloprid	< LOQ	0.20	0.100	pass	X	Thiamethoxam	< LOQ	0.20	0.100	pass	X
Trifloxystrobin	< LOQ	0.20	0.100	pass	X						

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes	
Arsenic	< LOQ	0.200	mg/kg	0.0464	2200837	01/31/22	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.200	mg/kg	0.0464	2200837	01/31/22	AOAC 2013.06 (mod.)	pass	X	
Lead	< LOQ	0.500	mg/kg	0.0464	2200837	01/31/22	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	0.100	mg/kg	0.0232	2200837	01/31/22	AOAC 2013.06 (mod.)	pass	X	



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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

/25g = Per 25g

cfu/g = Colony forming units per gram

g = Gram

g/ml = Gram per milliliter

µg/g = Microgram per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/60ml = Milligram per 60ml

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

ORELAP ID: OR100028

Company: Nutra Pure LLC		Analysis Requested											Tinctures/Softgels Density: .92			Purchase Order Number:		
Contact: Luis Monge		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: MICRO PROFILE X	Reportable Units: Tinctures: mg/60ml Softgels: mg/1 softgel			Project Name:	
Address: 800 NE Tenney Rd, Suite 110-326, Vancouver, WA 98685														Each softgel is .5 ml			Project Name:	
Email: Luis@Speedwinds.com																	Project Name:	
Phone: 208-869-8687 Fax: 503-296-7359																	Project Name:	
Processor's License:																	Project Name:	
Field ID	Date/Time Collected												Matrix	Weight	Serving size for edibles	Comments/Metric ID		
CBDPure 300 (2 Units)		X	X	X									X	X	Tincture	~60 g	1 ml	Batch: 52301, Micro Profile X
CBDPure 600 (2 Units)		X	X	X									X	X	Tincture	~60 g	1 ml	Batch 52302, Micro Profile X
CBDPure 1000 (2 Units)		X	X	X									X	X	Tincture	~60 g	1 ml	Batch 52303, Micro Profile X
CBDPure 750 (2 Units)		X	X	X									X	X	Softgel	~.5 g	1 Softgel	Batch 52304, Micro Profile X

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)	Terry Montgomery	12/13/21		DS	1/25/22	10:49	Client Alias:
<input type="checkbox"/> Rush (3-4 day) (1.5x Standard)							Order Number:
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Proper Container
							Sample Condition
							Temperature: 15.8°C
							Shipped Via: UPS
							Evidence of cooling: <input checked="" type="checkbox"/> 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: 2.00 Control#: CF023
Effective 04/29/2019 Revised 04/29/2019

www.pixislabs.com
www.columbiafoodlab.com

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Purchase Order:
Received: 01/25/22 10:49



Document ID: 3177 Revision: 2
Effective: 06/25/2021
Page 1 of 1

Job Number: _____ Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 1/29/22 Time: 10:49

Received By (Initials): DS Logged in by (Initials): _____ Date: _____ Time: _____

1) Were custody seals on outside of the package/cooler? YES NO NA
If YES, how many and where? _____

Does date match collection date on COC? _____ YES NO NA

2) Was Chain of Custody (COC) included in the package/cooler? YES NO NA

3) Was COC signed when relinquished and received? (time, date)? YES NO NA

4) How was the package/cooler delivered?

UPS FEDEX USPS CLIENT COURIER OTHER: _____

Tracking Number (written in or copy of shipping label): 1Z 739 FE0 01 4509 9676

5) Was packing material used? YES NO NA

Peanuts Bubble Wrap Foam Paper Other: _____

6) Was temperature upon receipt 4°C+/- 2°C (if appropriate)? YES NO NA

If not, client contacted: _____
Proceed? YES NO

7) Was there evidence of cooling? YES NO NA

What kind? Blue Ice Ice Cooler Packs Dry Ice

8) Were all sample containers sealed in separate plastic bags? YES NO NA

9) Did all sample containers arrive in good condition? YES NO NA

10) Were all sample container labels complete? YES NO NA

11) Did all sample container labels and tags agree with the COC? YES NO NA

12) Were correct sample containers used for the tests indicated? YES NO NA

13) Were VOA vials checked for absence of air bubbles (note if found)? YES NO NA

14) Was a sufficient amount of sample sent in each sample container? YES NO NA

16) Sample location prior to login: R99 R39 R44 F44 Ambient Shelf Cannabis Table Other: _____

Explain any discrepancies: 15.8°C



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

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2200744

Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDA	0.00932	0.01	%	93.2	85.0 - 115	Acceptable	
CBV	0.0112	0.01	%	112	85.0 - 115	Acceptable	
CE	0.00944	0.01	%	94.4	85.0 - 115	Acceptable	
CBDA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBGA	0.00933	0.01	%	93.3	85.0 - 115	Acceptable	
CBG	0.00916	0.01	%	91.6	85.0 - 115	Acceptable	
CB	0.00955	0.01	%	95.5	85.0 - 115	Acceptable	
THCV	0.00900	0.01	%	90.0	85.0 - 115	Acceptable	
d8THCV	0.00926	0.01	%	92.6	85.0 - 115	Acceptable	
THCA	0.00939	0.01	%	93.9	85.0 - 115	Acceptable	
CBN	0.00985	0.01	%	98.5	85.0 - 115	Acceptable	
exo-THC	0.00881	0.01	%	88.1	85.0 - 115	Acceptable	
d9THC	0.00928	0.01	%	92.8	85.0 - 115	Acceptable	
d8THC	0.00894	0.01	%	89.4	85.0 - 115	Acceptable	
CBL	0.00869	0.01	%	86.9	85.0 - 115	Acceptable	
CEC	0.00928	0.01	%	92.8	85.0 - 115	Acceptable	
THCA	0.00947	0.01	%	94.7	85.0 - 115	Acceptable	
CBGA	0.00988	0.01	%	98.8	85.0 - 115	Acceptable	
CBLA	0.00954	0.01	%	95.4	85.0 - 115	Acceptable	
CBF	0.0106	0.01	%	106	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBV	<LOQ	0.003	%	< 0.003	Acceptable	
CE	<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	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<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	
CEC	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBF	<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 Document ID: 7148
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2200744						
Sample Duplicate		Sample ID: 21-012857-0005						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	0.0348	0.0349	0.003	%	0.526	< 20	Acceptable	
CBDA	0.149	0.149	0.003	%	0.428	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	0.174	0.175	0.003	%	0.785	< 20	Acceptable	
CBDA	5.75	5.80	0.003	%	0.828	< 20	Acceptable	
THCV	0.0111	0.0108	0.003	%	2.73	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.0312	0.0314	0.003	%	0.638	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.154	0.153	0.003	%	0.432	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	0.0132	0.0126	0.003	%	5.20	< 20	Acceptable	
CBG	0.240	0.241	0.003	%	0.300	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBF	0.106	0.107	0.003	%	1.17	< 20	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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 Portland, OR 97230
 503-254-1794



Report Number: 22-000884/D003.R000
 Report Date: 02/01/2022
 ORELAP#: OR100028
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 Received: 01/25/22 10:49

Revision: 3 Document ID 3120
 LegacyID: CFLC21WorksheetValidated 10/30/2020

Laboratory Pesticide Quality Control Results

AQAC2007.1 & EN 15662		Units: mg/Kg		Laboratory Control Sample		Batch ID 2200753		
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spke	LCS % Re	Limits	Notes
Acetate	0.008	< 0.250		1.023	1.000	102.3	75.8 - 126	
Acetamiprid	0.000	< 1.000		3.794	4.000	94.8	68.7 - 123	
Acetamiprid	0.000	< 1.000		0.389	0.400	97.3	82.4 - 119	
Aldicarb	0.000	< 0.200		0.797	0.800	99.7	69.8 - 130	
Abamectin	0.000	< 0.250		1.022	1.000	102.2	71.4 - 130	
Azoxystrobin	0.000	< 0.100		0.369	0.400	92.4	74.6 - 125	
Bifenazate	0.079	< 0.100		0.447	0.400	111.9	89.3 - 166	
Bifenthrin	0.000	< 0.100		0.393	0.400	98.2	70.4 - 124	
Boscalid	0.000	< 0.200		0.826	0.800	103.2	74.4 - 131	
Carbaryl	0.000	< 0.100		0.395	0.400	98.7	80.9 - 122	
Carbendazim	0.000	< 0.100		0.397	0.400	99.2	71.7 - 133	
Chlorantraniliprol	0.000	< 0.100		0.410	0.400	102.4	82.3 - 120	
Chlorfenapyr	0.045	< 0.500		1.917	2.000	95.9	71.8 - 133	
Chlorpyrifos	0.000	< 0.100		0.369	0.400	92.2	75.6 - 119	
Clofentezine	0.000	< 0.100		0.373	0.400	93.2	76.4 - 122	
Cyfluthrin	0.000	< 0.500		2.313	2.000	115.6	70.3 - 131	
Cypermethrin	0.000	< 0.500		1.958	2.000	97.9	75.4 - 126	
Daminozide	0.165	< 0.500		2.583	2.000	129.1	75.9 - 141	
Diazinon	0.000	< 0.100		0.380	0.400	95.1	72.3 - 134	
Dichlorvos	0.000	< 0.500		1.922	2.000	96.1	82.5 - 113	
Dimethoat	0.000	< 0.100		0.385	0.400	96.3	82.7 - 118	
Ethionphos	0.000	< 0.100		0.387	0.400	96.8	74.9 - 126	
Etofenprox	0.000	< 0.200		0.762	0.800	95.2	72.8 - 135	
Etoxazol	0.000	< 0.100		0.401	0.400	100.3	72.1 - 132	
Fenoxycarb	0.000	< 0.100		0.392	0.400	98.0	81.7 - 119	
Fenpyroximat	0.000	< 0.200		0.774	0.800	96.8	80.2 - 122	
Flpronil	0.000	< 0.200		0.815	0.800	101.9	84.4 - 128	
Fonicamid	0.000	< 0.250		1.089	1.000	108.9	72.7 - 125	
Fludioxonil	0.000	< 0.200		0.791	0.800	98.9	72.2 - 134	
Hexythiazox	0.000	< 0.250		0.968	1.000	96.8	70.6 - 131	
Imazalil	0.000	< 0.100		0.413	0.400	103.2	74.7 - 132	
Imidacloprid	0.000	< 0.200		0.808	0.800	100.4	81.4 - 121	
Kiesoxim-Methyl	0.000	< 0.200		0.789	0.800	98.6	77.8 - 125	
Malathion	0.000	< 0.100		0.398	0.400	99.6	78.3 - 129	
Metaxalyl	0.000	< 0.100		0.381	0.400	95.2	81.1 - 121	
Methiocarb	0.000	< 0.100		0.394	0.400	98.6	82.2 - 120	
Methomyl	0.000	< 0.200		0.826	0.800	103.3	67.8 - 126	
MCK 264	0.000	< 0.100		0.389	0.400	97.1	77.6 - 124	
Myclobutanil	0.000	< 0.100		0.370	0.400	92.5	75.5 - 127	
Naled	0.000	< 0.250		0.954	1.000	95.4	75.7 - 124	
Oxaryl	0.000	< 0.500		1.980	2.000	99.0	72.6 - 124	
Padobutrazol	0.000	< 0.200		0.749	0.800	93.6	78.4 - 122	
Parathion Methyl	0.000	< 0.200		0.778	0.800	97.3	80.2 - 128	
Permethrin	0.000	< 0.100		0.388	0.400	96.9	68.7 - 128	
Phosmet	0.000	< 0.100		0.404	0.400	101.0	79.6 - 123	
Piperonyl butoxide	0.000	< 0.500		2.083	2.000	104.2	71.2 - 132	
Prallethrin	0.000	< 0.100		0.365	0.400	91.3	78.5 - 123	
Propiconazole	0.000	< 0.200		0.778	0.800	97.2	81.7 - 121	
Propoxur	0.000	< 0.100		0.391	0.400	97.7	73.2 - 128	
Pyrethrins	0.000	< 0.100		0.406	0.413	98.3	72.6 - 135	
Pyridaben	0.000	< 0.100		0.380	0.400	95.0	72.0 - 127	
Spinosad	0.000	< 0.100		0.455	0.388	117.2	73.6 - 137	
Spiromesfen	0.000	< 0.100		0.458	0.400	114.5	75.9 - 127	
Spirotetramat	0.000	< 0.100		0.391	0.400	97.7	80.3 - 123	
Spiroxamine	0.000	< 0.200		0.755	0.800	94.3	76.4 - 121	
Tebuconazol	0.000	< 0.200		0.768	0.800	96.0	80.9 - 122	
Thiadoprid	0.000	< 0.100		0.387	0.400	96.7	83.1 - 121	
Thiamethoxam	0.000	< 0.100		0.399	0.400	99.7	72.6 - 128	
Trifloxystrobin	0.000	< 0.100		0.376	0.400	94.1	77.4 - 127	



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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg					Batch ID 2200753				
Matrix Spk/Matrix Spk Duplicate Recoveries		Sample ID: 22-0008130024									
Analyte	Result	MSR ₅	MSD ₅	Spike	RFD%	Limit	MS% Re	MSD% Re	Limits	Notes	
Acophate	0.002	1.020	0.943	1.000	7.8%	< 30	101.8%	94.1%	50 - 150		
Acetamiprid	0.000	3.960	4.522	4.000	13.3%	< 30	99.0%	113.1%	50 - 150		
Acetamiprid	0.000	0.252	0.229	0.400	9.6%	< 30	63.0%	57.3%	50 - 150		
Aldicarb	0.000	0.889	0.741	0.800	18.1%	< 30	111.1%	92.6%	50 - 150		
Abamectin	0.000	0.416	0.433	1.000	4.1%	< 30	41.6%	43.3%	50 - 150	Q	
Azoxystrobin	0.000	0.372	0.354	0.400	5.1%	< 30	93.4%	88.5%	50 - 150		
Bifenazate	0.073	0.542	0.495	0.400	10.5%	< 30	117.2%	105.6%	50 - 150		
Bifenthrin	0.000	0.359	0.325	0.400	9.9%	< 30	89.7%	81.2%	50 - 150		
Boscalid	0.000	0.868	0.758	0.800	13.6%	< 30	108.6%	94.7%	50 - 150		
Carbaryl	0.000	0.368	0.364	0.400	1.0%	< 30	91.9%	91.0%	50 - 150		
Carbendazim	0.000	0.385	0.358	0.400	7.2%	< 30	96.3%	89.6%	50 - 150		
Chlorantraniliprol	0.000	0.328	0.309	0.400	5.9%	< 30	81.3%	77.2%	50 - 150		
Chlorfenapyr	0.000	1.618	1.269	2.000	24.2%	< 30	80.9%	63.4%	50 - 150		
Chlorpyrifos	0.000	0.360	0.346	0.400	3.8%	< 30	89.9%	86.5%	50 - 150		
Clofentezine	0.000	0.364	0.335	0.400	8.2%	< 30	90.9%	83.7%	50 - 150		
Cyfluthrin	0.000	2.093	1.910	2.000	9.1%	< 30	104.7%	95.5%	30 - 150		
Cypermethrin	0.000	2.073	1.940	2.000	6.6%	< 30	103.6%	97.0%	50 - 150		
Daminozide	0.155	2.357	2.389	2.000	1.4%	< 30	110.1%	111.7%	30 - 150		
Diazinon	0.000	0.375	0.343	0.400	9.1%	< 30	93.8%	85.6%	50 - 150		
Dichlorvos	0.000	1.846	1.807	2.000	2.1%	< 30	92.3%	90.4%	50 - 150		
Dimethoat	0.000	0.305	0.293	0.400	4.5%	< 30	76.5%	73.1%	50 - 150		
Ethionphos	0.000	0.374	0.340	0.400	9.7%	< 30	93.6%	84.9%	50 - 150		
Etofenprox	0.000	0.775	0.731	0.800	5.8%	< 30	96.9%	91.4%	50 - 150		
Etoxaol	0.000	0.402	0.369	0.400	8.6%	< 30	100.6%	92.3%	50 - 150		
Fenoxycarb	0.000	0.385	0.360	0.400	6.7%	< 30	96.2%	89.9%	50 - 150		
Fenpyroximat	0.000	0.656	0.601	0.800	8.7%	< 30	82.0%	75.2%	50 - 150		
Flpronil	0.000	0.797	0.729	0.800	8.9%	< 30	99.6%	91.2%	50 - 150		
Fonicamid	0.000	1.161	1.175	1.000	1.2%	< 30	116.1%	117.5%	50 - 150		
Fludioxonil	0.000	0.817	0.727	0.800	11.7%	< 30	102.1%	90.8%	50 - 150		
Hexythiazox	0.000	1.011	0.915	1.000	10.0%	< 30	101.1%	91.3%	50 - 150		
Imazalil	0.000	0.433	0.417	0.400	3.8%	< 30	108.2%	104.2%	50 - 150		
Imidacloprid	0.000	0.798	0.774	0.800	3.1%	< 30	99.8%	96.6%	50 - 150		
Kiesoxim-Methyl	0.000	0.747	0.732	0.800	2.0%	< 30	93.4%	91.5%	50 - 150		
Malathion	0.000	0.392	0.357	0.400	9.4%	< 30	98.0%	89.2%	50 - 150		
Metaxalyl	0.000	0.395	0.361	0.400	9.2%	< 30	98.8%	90.1%	50 - 150		
Methiocarb	0.000	0.396	0.355	0.400	10.8%	< 30	98.9%	88.6%	50 - 150		
Methomyl	0.000	0.891	0.858	0.800	3.9%	< 30	111.4%	107.2%	50 - 150		
MCK 264	0.000	0.365	0.333	0.400	9.3%	< 30	91.4%	83.3%	50 - 150		
Mydobutanil	0.000	0.363	0.364	0.400	0.4%	< 30	90.7%	91.1%	50 - 150		
Naled	0.000	0.921	0.865	1.000	6.2%	< 30	92.1%	86.6%	50 - 150		
Oxaryl	0.000	2.305	2.134	2.000	7.8%	< 30	115.3%	106.7%	50 - 150		
Padobutrazol	0.000	0.728	0.718	0.800	1.4%	< 30	91.0%	89.6%	50 - 150		
Parathion Methyl	0.000	0.989	0.771	0.800	24.7%	< 30	123.6%	96.4%	30 - 150		
Permethrin	0.000	0.248	0.204	0.400	19.5%	< 30	62.4%	51.1%	50 - 150		
Phosmet	0.000	0.432	0.374	0.400	14.5%	< 30	108.1%	93.4%	50 - 150		
Piperonyl butoxide	0.000	2.083	1.985	2.000	4.8%	< 30	104.2%	99.3%	50 - 150		
Prallethrin	0.000	0.378	0.358	0.400	5.5%	< 30	94.4%	89.4%	50 - 150		
Propiconazole	0.000	0.763	0.690	0.800	10.0%	< 30	95.3%	86.2%	50 - 150		
Propoxur	0.000	0.384	0.349	0.400	9.4%	< 30	95.9%	87.3%	50 - 150		
Pyrethrins	0.000	0.357	0.335	0.413	6.2%	< 30	86.8%	81.3%	50 - 150		
Pyridaben	0.000	0.419	0.376	0.400	10.7%	< 30	104.8%	94.1%	50 - 150		
Spinosad	0.000	0.475	0.448	0.388	5.8%	< 30	122.3%	115.4%	50 - 150		
Spiromesfen	0.000	0.349	0.337	0.400	3.5%	< 30	87.4%	84.4%	50 - 150		
Spirotetramat	0.000	0.394	0.374	0.400	5.3%	< 30	98.6%	93.5%	50 - 150		
Spiroxamine	0.000	0.769	0.711	0.800	7.8%	< 30	96.1%	88.6%	50 - 150		
Tebuconazol	0.000	0.781	0.735	0.800	6.0%	< 30	97.6%	91.9%	50 - 150		
Thiadoprid	0.000	0.391	0.368	0.400	6.1%	< 30	97.8%	92.1%	50 - 150		
Thiamethoxam	0.000	0.424	0.440	0.400	3.7%	< 30	105.9%	109.9%	50 - 150		
Trifloxystrobin	0.000	0.380	0.355	0.400	6.6%	< 30	95.1%	89.0%	50 - 150		



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Laboratory Quality Control Results

Batch ID: 2200784

Residual Solvents			Laboratory Control Sample						
Method Blank	LOQ		Notes	Result	Spike	Units	% Rec	Limits	Notes
Analyte	Result	<							
Propane	ND	<	200	432	401	µg/g	107.7	70	130
Isobutane	ND	<	200	480	498	µg/g	96.4	70	130
Butane	ND	<	200	488	493	µg/g	99.0	70	130
2,2-Dimethylpropane	ND	<	200	738	628	µg/g	117.7	70	130
Methanol	ND	<	200	1750	1610	µg/g	108.7	70	130
Ethylene Oxide	ND	<	30	39.3	37.2	µg/g	105.6	70	130
2-Methylbutane	ND	<	200	1720	1630	µg/g	105.9	70	130
Pentane	ND	<	200	1770	1610	µg/g	109.9	70	130
Ethanol	ND	<	200	1710	1630	µg/g	104.9	70	130
Ethyl Ether	ND	<	200	1660	1610	µg/g	103.1	70	130
2,2-Dimethylbutane	ND	<	30	190	168	µg/g	115.2	70	130
Acetone	ND	<	200	1790	1610	µg/g	111.2	70	130
2-Propanol	ND	<	200	1780	1610	µg/g	110.6	70	130
Ethyl Formate	ND	<	500	1200	1620	µg/g	74.1	70	130
Acetonitrile	ND	<	100	606	498	µg/g	121.7	70	130
Methyl Acetate	ND	<	500	1750	1610	µg/g	96.7	70	130
2,3-Dimethylbutane	ND	<	30	194	162	µg/g	119.8	70	130
Dichloromethane	ND	<	60	531	498	µg/g	106.6	70	130
2-Methylpentane	ND	<	30	206	167	µg/g	123.4	70	130
MTBE	ND	<	500	1630	1610	µg/g	101.2	70	130
3-Methylpentane	ND	<	30	188	179	µg/g	105.6	70	130
Hexane	ND	<	30	185	164	µg/g	112.8	70	130
1-Propanol	ND	<	500	1970	1620	µg/g	121.6	70	130
Methylethylketone	ND	<	500	1820	1770	µg/g	102.8	70	130
Ethyl acetate	ND	<	200	1720	1620	µg/g	106.2	70	130
2-Butanol	ND	<	200	1770	1600	µg/g	110.6	70	130
Tetrahydrofuran	ND	<	100	546	500	µg/g	109.2	70	130
Cyclohexane	ND	<	200	1690	1610	µg/g	105.0	70	130
2-methyl-1-propanol	ND	<	500	1810	1610	µg/g	112.4	70	130
Benzene	ND	<	1	5.97	5.62	µg/g	106.2	70	130
Isopropyl Acetate	ND	<	200	1790	1610	µg/g	111.2	70	130
Heptane	ND	<	200	1860	1610	µg/g	115.5	70	130
1-Butanol	ND	<	500	1740	1620	µg/g	107.4	70	130
Propyl Acetate	ND	<	500	2140	1620	µg/g	132.1	70	130 Q1
1,4-Dioxane	ND	<	100	569	500	µg/g	113.3	70	130
2-Ethoxyethanol	ND	<	30	213	164	µg/g	129.9	70	130
Methylisobutylketone	ND	<	500	2060	1620	µg/g	127.2	70	130
3-Methyl-1-butanol	ND	<	500	2040	1620	µg/g	125.9	70	130
Ethylene Glycol	ND	<	200	634	500	µg/g	126.8	70	130
Toluene	ND	<	200	534	488	µg/g	109.4	70	130
Isobutyl Acetate	ND	<	500	1860	1700	µg/g	109.4	70	130
1-Pentanol	ND	<	500	1890	1630	µg/g	116.0	70	130
Butyl Acetate	ND	<	500	1970	1660	µg/g	118.7	70	130
Ethylbenzene	ND	<	200	1070	969	µg/g	110.5	70	130
m-Xylene	ND	<	200	1120	990	µg/g	113.1	70	130
p-Xylene	ND	<	200	1090	971	µg/g	112.3	70	130
Cumene	ND	<	30	195	179	µg/g	108.9	70	130
Anisole	ND	<	500	1880	1650	µg/g	113.9	70	130
DMSO	ND	<	500	1680	1630	µg/g	103.1	70	130
1,2-dimethoxyethane	ND	<	50	232	185	µg/g	126.0	70	130
Triethylamine	ND	<	500	1740	1620	µg/g	107.4	70	130
N,N-dimethylformamide	ND	<	150	620	498	µg/g	125.3	70	130
N,N-dimethylacetamide	ND	<	150	694	500	µg/g	138.2	70	130 Q1
Pyridine	ND	<	50	198	188	µg/g	106.4	70	130
1,2-Dichloroethane	ND	<	1	1.28	1	µg/g	128.0	70	130
Chloroform	ND	<	1	1.22	1	µg/g	122.0	70	130
Tetrachloroethylene	ND	<	1	1.21	1	µg/g	121.0	70	130
Ethylene Oxide	ND	<	1	1.19	1	µg/g	119.0	70	130
Dichloromethane	ND	<	1	1.05	1	µg/g	105.0	70	130
Benzene	ND	<	1	1.18	1	µg/g	118.0	70	130



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QC - Sample Duplicate Sample ID: 22-000875-0001

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	
MTEE	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	
Methyl ethyl ketone	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	
Tetrahydrofuran	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	
Toluene	ND	ND	200	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	
Bnfl 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	
Triethylamine	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	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Tetrachloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Benzene	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



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Report Number: 22-000884/D003.R000
Report Date: 02/01/2022
ORELAP#: OR100028
Purchase Order:
Received: 01/25/22 10:49

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.