

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU SG50	BATCH # C2201974	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	
PRODUCT NAME CBD Softgel - 50 mg	SERVING SIZE 1 softgel (0.4g)		
LABORATORY: Columbia Laboratories	OREGON ACCREDITATION: OR100028		
POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	52.80 mg/serving	132.00 mg/g	13.20 %
Total THC (d9-THC, THCA)	0.56 mg/serving	1.40 mg/g	0.14 %
Cannabigerol (CBG)	0.18 mg/serving	0.45 mg/g	0.04 %
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Cannabichromene (CBC)	0.68 mg/serving	1.70 mg/g	0.17 %
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	0.56 mg/serving	1.40 mg/g	0.14 %
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	6 µg/day ^[1]
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	<LOQ µg/g	50,000 mg/day	
Heptane	<LOQ µg/g	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.



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



Report Number: 22-013803/D009.R000
Report Date: 11/17/2022
ORELAP#: OR100028
Purchase Order:
Received: 11/09/22 16:23

Customer: Etz Hayim Holdings
Product identity: FORM-SG50-C2201974
Client/Metric ID: .
Laboratory ID: 22-013803-0002

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	1.70		mg/1g		CBD-Total per Serving Size 132 mg/1g
CBD per 1g	132		mg/1g		
CBDV per 1g	0.360		mg/1g		THC-Total per Serving Size 1.40 mg/1g
CBG per 1g	0.446		mg/1g		(Reported in milligrams per serving)
CBT per 1g	0.449		mg/1g		
Δ9-THC per 1g	1.40		mg/1g		

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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ORELAP#: OR100028
Purchase Order:
Received: 11/09/22 16:23

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

Product identity: FORM-SG50-C2201974

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-013803-0002

Evidence of Cooling: No

Temp: 18.4

Relinquished by: client

Serving Size #1: 1 g

Sample Results

Potency per 1g	Method: J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2209774	Analyze: 11/14/22 12:06:00 P	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	1.70		mg/1g	0.0326	
CBC-A per 1g	< LOQ		mg/1g	0.0326	
CBC-Total per 1g	1.70		mg/1g	0.0612	
CBD per 1g	132		mg/1g	3.26	
CBD-A per 1g	< LOQ		mg/1g	0.0326	
CBD-Total per 1g	132		mg/1g	3.29	
CBDV per 1g	0.360		mg/1g	0.0326	
CBDV-A per 1g	< LOQ		mg/1g	0.0326	
CBDV-Total per 1g	0.360		mg/1g	0.0609	
CBE per 1g	< LOQ		mg/1g	0.0326	
CBG per 1g	0.446		mg/1g	0.0326	
CBG-A per 1g	< LOQ		mg/1g	0.0326	
CBG-Total per 1g	0.446		mg/1g	0.0609	
CBL per 1g	< LOQ		mg/1g	0.0326	
CBL-A per 1g	< LOQ		mg/1g	0.0326	
CBL-Total per 1g	< LOQ		mg/1g	0.0612	
CBN per 1g	< LOQ		mg/1g	0.0326	
CBT per 1g	0.449		mg/1g	0.0326	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0326	
Δ10-THC per 1g	< LOQ		mg/1g	0.0326	
Δ8-THC per 1g	< LOQ		mg/1g	0.0326	
Δ9-THC per 1g	1.40		mg/1g	0.0326	
exo-THC per 1g	< LOQ		mg/1g	0.0326	
THC-A per 1g	< LOQ		mg/1g	0.0326	
THC-Total per 1g	1.40		mg/1g	0.0612	
THCV per 1g	< LOQ		mg/1g	0.0326	
THCV-A per 1g	< LOQ		mg/1g	0.0326	
THCV-Total per 1g	< LOQ		mg/1g	0.0612	
Total Cannabinoids per 1g	136		mg/1g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2209653	11/12/22 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2209653	11/12/22 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2209654	11/13/22 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2209654	11/13/22 AOAC 2014.05 (RAPID) ^P		

Solvents **Method:** Residual Solvents by GC/MS **Units** µg/g **Batch** 2209767 **Analyze** 11/14/22 11:22 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-Dimethyl butane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethyl 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 [‡]	< LOQ		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)											
Units mg/kg Batch 2209850 Analyze 11/16/22 08:46 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		Acephate [‡]	< LOQ	0.40	0.200	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		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		Oxamy [‡]	< LOQ	1.0	0.500	pass	
Paclobotrazole [‡]	< LOQ	0.40	0.200	pass		Parathion-Methyl [‡]	< LOQ	0.20	0.100	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	0.100	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	0.0328	2209789	11/14/22 AOAC 2013.06 (mod.) ^p	pass			
Cadmium	< LOQ	0.200	mg/kg	0.0328	2209789	11/14/22 AOAC 2013.06 (mod.) ^p	pass			
Lead	< LOQ	0.500	mg/kg	0.0328	2209789	11/14/22 AOAC 2013.06 (mod.) ^p	pass			
Mercury	< LOQ	0.100	mg/kg	0.0164	2209789	11/14/22 AOAC 2013.06 (mod.) ^p	pass			



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Received: 11/09/22 16:23

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.

^p = 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



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Portland, OR 97230
503-254-1794



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

Cannabis Chain of Custody Record



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/Metric ID
[Redacted]			X	X	X	X	X	X	X	X	X	X	X					
FORM-PMPLN-2147781			X	X	X	X	X	X	X	X	X	X	X					
FORM-SG150-C2201974			X	X	X	X	X	X	X	X	X	X	X				mg/g	Parallel Path
FORM-TN.O.FS.SL50-EJ11			X	X	X	X	X	X	X	X	X	X	X		Tincture		mg/g	Potency First (1)
FORM-LOT.UN20-EK12			X	X	X	X	X	X	X	X	X	X	X		Topical		mg/g	Parallel Path
WLPL-W.PET.ATB-EJ61			X	X	X	X	X	X	X	X	X	X	X		Edible		mg/g	Parallel Path
RM-FLUP.MPSK-RM1941			X	X	X	X	X	X	X	X	X	X	X					LazNat Discount

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)	[Redacted]			[Redacted]			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: 18.4
							Shipped Via: Courier
							Evidence of cooling: <input type="checkbox"/> Yes <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: 1.02 Control#: CF023
Effective 01/31/2019 Revised 01/31/2019

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 ORELAP#: OR100028
 Purchase Order:
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Revision 2 Document D 7087
 Legacy D CFL-E33Effective

Laboratory Quality Control Results

Residual Solvents				Batch D: 2209767					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		551	572	µg/g	96.3	60	120
Isobutane	ND	< 200		724	731	µg/g	99.0	60	120
Butane	ND	< 200		702	731	µg/g	96.0	60	120
2,2 Dimethylpropane	ND	< 200		1010	936	µg/g	107.9	60	120
Methanol	ND	< 200		1630	1650	µg/g	98.8	60	120
Ethylene Oxide	ND	< 30		54.9	56.2	µg/g	97.7	60	120
2 Methylbutane	ND	< 200		1370	1650	µg/g	83.0	60	120
Pentane	ND	< 200		1380	1650	µg/g	83.6	60	120
Ethanol	ND	< 200		1470	1660	µg/g	88.6	70	130
Ethyl Ether	ND	< 200		1340	1630	µg/g	82.2	60	120
2,2 Dimethylbutane	ND	< 30		147	189	µg/g	77.8	60	120
Acetone	ND	< 200		1460	1650	µg/g	88.5	60	120
2 Propanol	ND	< 200		1480	1650	µg/g	89.7	60	120
Ethyl Formate	ND	< 500		1230	1610	µg/g	76.4	70	130
Acetonitrile	ND	< 100		451	504	µg/g	89.5	60	120
Methyl Acetate	ND	< 500		1540	1630	µg/g	94.5	70	130
2,3 Dimethylbutane	ND	< 30		145	174	µg/g	83.3	60	120
Dichloromethane	ND	< 60		416	521	µg/g	79.8	60	120
2 Methylpentane	ND	< 30		148	187	µg/g	79.1	60	120
M BE	ND	< 500		1490	1600	µg/g	93.1	70	130
3 Methylpentane	ND	< 30		155	188	µg/g	82.4	60	120
Hexane	ND	< 30		156	182	µg/g	85.7	60	120
1 Propanol	ND	< 500		1610	1610	µg/g	100.0	70	130
Methylethylketone	ND	< 500		1600	1600	µg/g	100.0	70	130
Ethyl acetate	ND	< 200		1480	1630	µg/g	90.8	60	120
2 Butanol	ND	< 200		1450	1630	µg/g	89.0	60	120
tetrahydrofuran	ND	< 100		401	506	µg/g	79.2	60	120
Cyclohexane	ND	< 200		1290	1640	µg/g	78.7	60	120
2 methyl 1 propanol	ND	< 500		1500	1620	µg/g	92.6	70	130
Benzene	ND	< 1		3.87	4.93	µg/g	78.5	60	120
Isopropyl Acetate	ND	< 200		1540	1640	µg/g	93.9	60	120
Heptane	ND	< 200		1400	1630	µg/g	85.9	60	120
1 Butanol	ND	< 500		1560	1600	µg/g	97.5	70	130
Propyl Acetate	ND	< 500		1640	1620	µg/g	101.2	70	130
1,4 Dioxane	ND	< 100		386	493	µg/g	78.3	60	120
2 Ethoxyethanol	ND	< 30		168	171	µg/g	98.2	60	120
Methylisobutylketone	ND	< 500		1510	1620	µg/g	93.2	70	130
3 Methyl 1 butanol	ND	< 500		1620	1610	µg/g	100.6	70	130
Ethylene Glycol	ND	< 200		410	494	µg/g	83.0	60	120
oluene	ND	< 100		391	506	µg/g	77.3	60	120
Isobutyl Acetate	ND	< 500		1620	1620	µg/g	100.0	70	130
1 Pentanol	ND	< 500		1610	1610	µg/g	100.0	70	130
Butyl Acetate	ND	< 500		1590	1610	µg/g	98.8	70	130
Ethylbenzene	ND	< 200		784	996	µg/g	78.7	60	120
m,p Xylene	ND	< 200		793	1010	µg/g	78.5	60	120
o Xylene	ND	< 200		757	979	µg/g	77.3	60	120
Cumene	ND	< 30		135	188	µg/g	71.8	60	120
Anisole	ND	< 500		1440	1610	µg/g	89.4	70	130
DMSO	ND	< 500		1420	1600	µg/g	88.8	70	130
1,2 dimethoxyethane	ND	< 50		386	190	µg/g	97.9	70	130
riethylamine	ND	< 500		1500	1610	µg/g	93.2	70	130
N,N dimethylformamide	ND	< 150		478	496	µg/g	96.4	70	130
N,N dimethylacetamide	ND	< 150		446	483	µg/g	92.3	70	130
Pyridine	ND	< 50		156	167	µg/g	93.4	70	130
Sulfone	ND	< 50		148	161	µg/g	91.9	70	130
1,2 Dichloroethane	ND	< 1		1.02	1	µg/g	102.0	70	130
Chloroform	ND	< 1		0.964	1	µg/g	96.4	70	130
richloroethylene	ND	< 1		0.934	1	µg/g	93.4	70	130
1,1 Dichloroethane	ND	< 1		0.958	1	µg/g	95.8	70	130



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Revision 2 Document D 7087
 Legacy D CFL-E33Effective

QC- Sample Duplicate Sample ID: 22-013432-0001

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	10000	9870	200 µg/g	1.3	< 20	Acceptable	E
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	754	742	200 µg/g	1.6	< 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	
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	
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	
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	
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	
1,1 Dichloroethane	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
- E Analyte concentration exceeds the calibration range, results are estimated.

Units of Measure:

µg/g Microgram per gram or ppm



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

Report Number: 22-013803/D009.R000
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ORELAP#: OR100028
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Received: 11/09/22 16:23



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

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2209774

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDA	2	0.0331	0.034	%	96.9	80.0 - 120	Acceptable	
CBDV	2	0.0343	0.035	%	96.8	80.0 - 120	Acceptable	
CBE	2	0.0335	0.035	%	94.8	80.0 - 120	Acceptable	
CBDA	1	0.0335	0.032	%	104	90.0 - 110	Acceptable	
CBSA	1	0.0331	0.032	%	104	80.0 - 120	Acceptable	
CBS	1	0.0356	0.034	%	105	80.0 - 120	Acceptable	
CB	1	0.0348	0.033	%	106	90.0 - 110	Acceptable	
THCV	2	0.0324	0.034	%	95.3	80.0 - 120	Acceptable	
d8THCV	2	0.0345	0.036	%	95.3	80.0 - 120	Acceptable	
THCVA	2	0.0317	0.033	%	95.6	80.0 - 120	Acceptable	
CBN	1	0.0357	0.035	%	103	90.0 - 110	Acceptable	
exo-THC	2	0.0321	0.033	%	98.2	80.0 - 120	Acceptable	
d9THC	1	0.0345	0.034	%	101	90.0 - 110	Acceptable	
d8THC	1	0.0329	0.035	%	95.1	90.0 - 110	Acceptable	
CB	2	0.0325	0.033	%	97.4	80.0 - 120	Acceptable	
d10THC	1	0.0301	0.030	%	98.9	80.0 - 120	Acceptable	
CB	2	0.0330	0.035	%	94.6	80.0 - 120	Acceptable	
THCA	1	0.0353	0.032	%	110	90.0 - 110	Acceptable	
CBA	2	0.0335	0.034	%	97.5	80.0 - 120	Acceptable	
CBA	2	0.0341	0.035	%	96.6	80.0 - 120	Acceptable	
CB	2	0.0328	0.037	%	89.7	80.0 - 120	Acceptable	

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<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	
CBSA	<LOQ	0.003	%	< 0.003	Acceptable	
CBS	<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	
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	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBA	<LOQ	0.003	%	< 0.003	Acceptable	
CBA	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<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
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Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2209774						
Sample Duplicate		Sample ID: 22-0138030002						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0378	0.0360	0.003	%	5.09	< 20	Acceptable	
CBF	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0409	0.0446	0.003	%	8.58	< 20	Acceptable	
CB	12.2	13.2	0.003	%	7.25	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
δ8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
δ9THC	0.0934	0.140	0.003	%	40.2	< 20	Outlier	R
δ8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
δ10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CB	0.0887	0.170	0.003	%	62.9	< 20	Outlier	R
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CB	0.0949	0.0449	0.003	%	71.4	< 20	Outlier	R

Abbreviations

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

Units of Measure:



12423 NE Whitaker Way
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Laboratory Pesticide Quality Control Results

AOAC2007.1 &EN 15662		Units: mg/Kg			Batch ID 2209850			
Method Bank	Laboratory Control Sample							
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spke	LCS% Re	Limits	Notes
Abamectin	0.000	< 0.250		0.973	1.000	97.3	50.0 150	
Acephate	0.011	< 0.250		1.013	1.000	101.3	60.0 120	
Acetaminocyl	0.000	< 1.000		3.955	4.000	98.9	40.0 160	
Acetamiprid	0.000	< 0.100		0.403	0.400	100.8	60.0 120	
Aldicarb	0.000	< 0.200		0.831	0.800	103.9	60.0 120	
Azoxystrobin	0.000	< 0.100		0.395	0.400	98.7	60.0 120	
Bifenazate	0.000	< 0.100		0.404	0.400	100.9	60.0 120	
Bifenthrin	0.000	< 0.100		0.389	0.400	97.2	50.0 150	
Boscalid	0.000	< 0.200		0.802	0.800	100.3	60.0 120	
Carbaryl	0.000	< 0.100		0.404	0.400	100.9	60.0 120	
Carbofuran	0.000	< 0.100		0.408	0.400	102.0	60.0 120	
Chlorantraniliprole	0.000	< 0.100		0.383	0.400	95.7	60.0 120	
Chlorfenapyr	0.000	< 0.500		2.236	2.000	111.8	60.0 120	
Chlorpyrifos	0.000	< 0.100		0.370	0.400	92.6	60.0 120	
Clofentazine	0.000	< 0.100		0.403	0.400	100.7	60.0 120	
Cyfluthrin	0.000	< 0.500		2.124	2.000	106.2	50.0 150	
Cypermethrin	0.000	< 0.500		1.937	2.000	96.8	50.0 150	
Daminozide	0.000	< 0.500		0.790	2.000	39.5	60.0 120	Q6
Diazinon	0.000	< 0.100		0.400	0.400	100.1	60.0 120	
Dichlorvos	0.000	< 0.500		2.061	2.000	103.1	60.0 120	
Dimethoate	0.000	< 0.100		0.414	0.400	103.5	60.0 120	
Ethoprophos	0.000	< 0.100		0.394	0.400	98.5	60.0 120	
Etofenprox	0.000	< 0.200		0.768	0.800	96.0	50.0 150	
Etoxazole	0.000	< 0.100		0.388	0.400	96.9	60.0 120	
Fenoxycarb	0.000	< 0.100		0.391	0.400	97.7	60.0 120	
Fenpyroximate	0.000	< 0.200		0.824	0.800	103.0	60.0 120	
Fipronil	0.000	< 0.200		0.822	0.800	102.7	60.0 120	
Fonicamid	0.000	< 0.250		1.118	1.000	111.8	60.0 120	
Fludioxonil	0.000	< 0.200		0.751	0.800	93.9	50.0 150	
Hexythiazox	0.000	< 0.250		0.974	1.000	97.4	60.0 120	
Imazalil	0.000	< 0.100		0.398	0.400	99.4	60.0 120	
Imidacloprid	0.000	< 0.200		0.641	0.800	80.1	60.0 120	
Kresoxim methyl	0.000	< 0.200		0.801	0.800	100.2	60.0 120	
Malathion	0.000	< 0.100		0.391	0.400	97.8	60.0 120	
Metlaxyl	0.000	< 0.100		0.405	0.400	101.1	60.0 120	
Methiocarb	0.000	< 0.100		0.398	0.400	99.6	60.0 120	
Methomyl	0.000	< 0.200		0.862	0.800	107.7	60.0 120	
MGK 264	0.000	< 0.100		0.469	0.400	117.1	50.0 150	
Myclobutanil	0.000	< 0.100		0.382	0.400	95.4	60.0 120	
Naled	0.000	< 0.250		0.987	1.000	98.7	50.0 150	
Oxamyl	0.000	< 0.500		1.912	2.000	95.6	60.0 120	
Pacllobutrazole	0.000	< 0.200		0.788	0.800	98.4	60.0 120	
Parathion Methyl	0.000	< 0.200		1.082	0.800	135.3	50.0 150	
Permethrin	0.000	< 0.100		0.392	0.400	98.1	50.0 150	
Phosmet	0.000	< 0.100		0.403	0.400	100.9	50.0 150	
Piperonyl butoxide	0.000	< 0.500		1.990	2.000	99.5	60.0 120	
Prallethrin	0.000	< 0.100		0.393	0.400	98.3	60.0 120	
Propiconazole	0.000	< 0.200		0.785	0.800	98.1	60.0 120	
Propoxur	0.000	< 0.100		0.406	0.400	101.5	60.0 120	
Pyrethrin (Summe)	0.000	< 0.100		0.416	0.413	100.6	60.0 120	
Pyridaben	0.000	< 0.100		0.387	0.400	96.8	50.0 150	
Spirosad	0.000	< 0.100		0.373	0.388	96.0	50.0 150	
Spiromesifen	0.000	< 0.100		0.423	0.400	105.8	60.0 120	
Spirotetramat	0.000	< 0.100		0.378	0.400	94.5	60.0 120	
Spiroxamine	0.000	< 0.200		0.795	0.800	99.3	60.0 120	
ebuconazole	0.000	< 0.200		0.791	0.800	98.9	60.0 120	
hiacloprid	0.000	< 0.100		0.389	0.400	97.3	60.0 120	
hiamethoxam	0.000	< 0.100		0.401	0.400	100.2	60.0 120	
rifloxystrobin	0.000	< 0.100		0.386	0.400	96.4	60.0 120	



12423 NE Whitaker Way
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Received: 11/09/22 16:23

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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg					Batch ID 2209850			
Matrix Spke/Matrix Spke Duplicate Recoveries	Result	MS Res	MSD Res	Spike	RFD%	Limit	MS % Re	MSD % Re	Limits	Notes
Abamectin	0.000	1.178	1.193	1.000	1.2%	< 30	117.8%	119.3%	50 150	
Acephate	0.000	0.796	0.843	1.000	5.7%	< 30	79.6%	84.3%	50 150	
Acetaminocyl	0.000	3.488	3.657	4.000	4.7%	< 30	87.2%	91.4%	50 150	
Acetamiprid	0.000	0.381	0.402	0.400	5.2%	< 30	95.3%	100.4%	50 150	
Aldicarb	0.000	0.775	0.830	0.800	6.8%	< 30	96.9%	103.7%	50 150	
Azoxystrobin	0.000	0.371	0.372	0.400	0.3%	< 30	92.7%	93.0%	50 150	
Bifenazate	0.000	0.377	0.407	0.400	7.7%	< 30	94.2%	101.7%	50 150	
Bifenthrin	0.000	0.320	0.334	0.400	4.2%	< 30	80.0%	83.4%	50 150	
Boscalid	0.000	0.808	0.799	0.800	1.2%	< 30	101.0%	99.8%	50 150	
Carbaryl	0.000	0.372	0.392	0.400	5.2%	< 30	93.0%	97.9%	50 150	
Carbofuran	0.000	0.374	0.394	0.400	5.2%	< 30	93.5%	98.5%	50 150	
Chlorantraniliprole	0.000	0.365	0.383	0.400	4.9%	< 30	91.2%	95.8%	50 150	
Chlorfenapyr	0.000	2.493	2.550	2.000	2.3%	< 30	124.7%	127.5%	50 150	
Chlorpyrifos	0.000	0.369	0.369	0.400	0.2%	< 30	92.4%	92.2%	50 150	
Clofentazine	0.000	0.380	0.396	0.400	4.1%	< 30	95.0%	99.0%	50 150	
Cyfluthrin	0.000	2.660	2.627	2.000	1.2%	< 30	133.0%	131.4%	30 150	
Cypermethrin	0.000	2.616	2.680	2.000	2.4%	< 30	130.8%	134.0%	50 150	
Daminozide	0.000	0.456	0.472	2.000	3.4%	< 30	22.8%	23.6%	30 150	
Diazinon	0.000	0.357	0.374	0.400	4.7%	< 30	89.2%	93.5%	50 150	
Dichlorvos	0.000	1.821	2.001	2.000	9.4%	< 30	91.0%	100.0%	50 150	
Dimethoate	0.000	0.382	0.404	0.400	5.5%	< 30	95.6%	101.0%	50 150	
Ethoprophos	0.000	0.378	0.406	0.400	7.2%	< 30	94.5%	101.5%	50 150	
Etofenprox	0.000	0.594	0.618	0.800	3.9%	< 30	74.3%	77.2%	50 150	
Etoxazole	0.000	0.362	0.378	0.400	4.2%	< 30	90.5%	94.4%	50 150	
Fenoxycarb	0.000	0.382	0.387	0.400	1.4%	< 30	95.4%	96.7%	50 150	
Fenpyroximate	0.000	0.793	0.834	0.800	5.0%	< 30	99.1%	104.2%	50 150	
Fipronil	0.000	0.765	0.795	0.800	3.8%	< 30	95.6%	99.3%	50 150	
Fonicamid	0.000	1.088	1.119	1.000	2.8%	< 30	108.8%	111.9%	50 150	
Fludioxonil	0.000	0.738	0.757	0.800	2.6%	< 30	92.2%	94.7%	50 150	
Hexythiazox	0.000	0.935	0.957	1.000	2.3%	< 30	93.5%	95.7%	50 150	
Imazalil	0.000	0.373	0.391	0.400	4.9%	< 30	93.2%	97.9%	50 150	
Imidacloprid	0.000	0.673	0.703	0.800	4.3%	< 30	84.2%	87.8%	50 150	
Kresoxim methyl	0.000	0.761	0.798	0.800	4.8%	< 30	95.1%	99.8%	50 150	
Malathion	0.000	0.378	0.393	0.400	4.0%	< 30	94.4%	98.2%	50 150	
Metaxalyl	0.000	0.386	0.393	0.400	1.9%	< 30	96.5%	98.3%	50 150	
Methiocarb	0.000	0.368	0.388	0.400	5.5%	< 30	91.9%	97.1%	50 150	
Methomyl	0.000	0.688	0.777	0.800	12.1%	< 30	86.0%	97.1%	50 150	
MGK 264	0.000	0.474	0.455	0.400	4.1%	< 30	118.5%	113.8%	50 150	
Myclobutanil	0.000	0.377	0.389	0.400	3.1%	< 30	94.3%	97.2%	50 150	
Naled	0.000	0.919	0.974	1.000	5.8%	< 30	91.9%	97.4%	50 150	
Oxamyl	0.000	1.930	2.028	2.000	4.9%	< 30	96.5%	101.4%	50 150	
Pacllobutrazole	0.000	0.754	0.772	0.800	2.4%	< 30	94.2%	96.5%	50 150	
Parathion Methyl	0.000	1.036	0.951	0.800	8.6%	< 30	129.5%	118.9%	30 150	
Permethrin	0.000	0.416	0.428	0.400	2.9%	< 30	103.9%	107.0%	50 150	
Phosmet	0.000	0.389	0.392	0.400	0.8%	< 30	97.2%	98.0%	50 150	
Piperonyl butoxide	0.069	1.927	2.001	2.000	3.9%	< 30	92.9%	96.6%	50 150	
Prallethrin	0.000	0.381	0.399	0.400	4.7%	< 30	95.1%	99.7%	50 150	
Propiconazole	0.000	0.740	0.767	0.800	3.6%	< 30	92.5%	95.9%	50 150	
Propoxur	0.000	0.368	0.397	0.400	7.7%	< 30	91.9%	99.3%	50 150	
Pyrethrin (Summe)	0.000	0.388	0.404	0.413	4.0%	< 30	94.0%	97.7%	50 150	
Pyridaben	0.000	0.297	0.314	0.400	5.8%	< 30	74.1%	78.5%	50 150	
Spirosad	0.000	0.349	0.364	0.388	4.1%	< 30	90.0%	93.8%	50 150	
Spiromesifen	0.000	0.380	0.387	0.400	1.9%	< 30	95.0%	96.8%	50 150	
Spirotetramat	0.000	0.364	0.382	0.400	4.7%	< 30	91.0%	95.5%	50 150	
Spiroxamine	0.000	0.739	0.779	0.800	5.3%	< 30	92.3%	97.4%	50 150	
ebuconazole	0.000	0.748	0.784	0.800	4.6%	< 30	93.5%	98.0%	50 150	
hiacloprid	0.000	0.373	0.388	0.400	3.8%	< 30	93.4%	97.0%	50 150	
hiamethoxam	0.000	0.424	0.439	0.400	3.7%	< 30	105.9%	109.8%	50 150	
rifloxystrobin	0.000	0.362	0.381	0.400	5.2%	< 30	90.5%	95.3%	50 150	

Q



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Report Number: 22-013803/D009.R000
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Purchase Order:
Received: 11/09/22 16:23





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.