

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU GMY.D9.HB5		BATCH # 212610		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 Cycling Frog Huckleberry Gummy		SERVING SIZE 1 gummy (~5 g)					
LABORATORY: Columbia Laboratories		OREGON ACCREDITATION: OR100028					
POTENCY		PER SERVING		PER GRAM		Percent	
Cannabidiol (CBD)		29.6	mg/serving	5.92	mg/g	0.592	%
Total THC (d9-THC, THCA)		6.70	mg/serving	1.34	mg/g	0.134	%
Cannabigerol (CBG)		<LOQ	mg/serving	<LOQ	mg/g	<LOQ	%
Cannabinol (CBN)		<LOQ	mg/serving	<LOQ	mg/g	<LOQ	%
Cannabichromene (CBC)		<LOQ	mg/serving	<LOQ	mg/g	<LOQ	%
Tetrahydrocannabinolic Acid (THCA)		<LOQ	mg/serving	<LOQ	mg/g	<LOQ	%
Delta-9-THC (d9-THC)		6.70	mg/serving	1.34	mg/g	0.134	%
Delta-8-THC (d8-THC)		1.99	mg/serving	0.398	mg/g	0.0398	%
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		<LOQ					
Heptane		<LOQ					
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.



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



Report Number: 21-012803/D004.R001
Report Date: 11/08/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/29/21 15:40

This is an amended version of report# 21-012803/D004.R000.
Reason: Updated Sample ID.

Customer: Etz Hayim Holdings
Product identity: FORM-212610-GMY.D9.HB5
Client/Metric ID: .
Laboratory ID: 21-012803-0001

Summary

Potency:

Analyte per 5g	Result	Limits	Units	Status	
CBD per 5g	29.6		mg/5g		CBD Total per 5g 29.6 mg/5g
Δ8 THC per 5g†	1.99		mg/5g		
Δ9 THC per 5g	6.70		mg/5g		THC-Total per 5g 6.70 mg/5g
(Reported in milligrams per serving)					

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: Etz Hayim Holdings
16427 NE Airport Way
PORTLAND 97230
United States of America (USA)
Product identity: FORM-212610-GMY.D9.HB5
Client/Metric ID: .
Sample Date:
Laboratory ID: 21-012803-0001
Evidence of Cooling: No
Temp: 19.1 °C
Relinquished by: client
Serving Size #1: 5 g

Sample Results

Potency per 5g Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2109951 Analyze: 11/3/21 12:51:00 AM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 5g†	< LOQ		mg/5g	0.159	
CBC-A per 5g†	< LOQ		mg/5g	0.159	
CBC-Total per 5g†	< LOQ		mg/5g	0.299	
CBD per 5g	29.6		mg/5g	0.159	
CBD-A per 5g	< LOQ		mg/5g	0.159	
CBD-Total per 5g	29.6		mg/5g	0.299	
CBDV per 5g†	< LOQ		mg/5g	0.159	
CBDV-A per 5g†	< LOQ		mg/5g	0.159	
CBDV-Total per 5g†	< LOQ		mg/5g	0.297	
CBE per 5g†	< LOQ		mg/5g	0.159	
CBG per 5g†	< LOQ		mg/5g	0.159	
CBG-A per 5g†	< LOQ		mg/5g	0.159	
CBG-Total per 5g†	< LOQ		mg/5g	0.297	
CBL per 5g†	< LOQ		mg/5g	0.159	
CBL-A per 5g†	< LOQ		mg/5g	0.159	
CBL-Total per 5g†	< LOQ		mg/5g	0.299	
CBN per 5g	< LOQ		mg/5g	0.159	
CBT per 5g†	< LOQ		mg/5g	0.159	
Δ8-THCV per 5g†	< LOQ		mg/5g	0.159	
Δ8-THC per 5g†	1.99		mg/5g	0.159	
Δ9-THC per 5g	6.70		mg/5g	0.159	
exo-THC per 5g†	< LOQ		mg/5g	0.159	
THC-A per 5g	< LOQ		mg/5g	0.159	
THC-Total per 5g	6.70		mg/5g	0.299	
THCV per 5g†	< LOQ		mg/5g	0.159	
THCV-A per 5g†	< LOQ		mg/5g	0.159	
THCV-Total per 5g†	< LOQ		mg/5g	0.299	
Total Cannabinoids per 5g	38.2		mg/5g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2109798	11/01/21	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2109798	11/01/21	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2109799	11/01/21	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2109799	11/01/21	AOAC 2014.05 (RAPID)		X

Solvents	Method	Residual Solvents by GC/MS				Units µg/g	Batch	2110010	Analyze	11/05/21	11:40 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-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethylbutane	< 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 ¹	< 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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Received: 10/29/21 15:40

Pesticides										
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2109891 Analyze 11/02/21 04:02 PM										
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	Analyte	Method	Status	Notes	
Arsenic	< LOQ	0.200	mg/kg	0.00961	2109948	11/03/21	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.200	mg/kg	0.00961	2109948	11/03/21	AOAC 2013.06 (mod.)	pass	X	
Lead	< LOQ	0.500	mg/kg	0.00961	2109948	11/03/21	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	0.100	mg/kg	0.00480	2109948	11/03/21	AOAC 2013.06 (mod.)	pass	X	



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503-254-1794



Report Number: 21-012803/D004.R001
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Received: 10/29/21 15:40

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

cfu/g = Colony forming units per gram

g = Gram

µg/g = Microgram per gram

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

mg/5g = Milligram per 5g

% = 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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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

ORELAP ID: OR100028

Analysis Requested		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-211029-GMY.D9.HBS	10/29 900			X													Laz Nat Discount
FORM-211029-GMY.D9.HBS	10/29 900							X	X								
FORM-211029-GMY.D9.HBS	10/29 900	X			X						X						
FORM-211029-GMY.D9.WTR	10/29 900			X													
FORM-211029-GMY.D9.WTR	10/29 900							X	X								
FORM-211029-GMY.D9.WTR	10/29 900	X			X						X						

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
☒ Standard (5 day) ☐ Rush (3-4 day) (1.5x Standard) ☒ Priority Rush (2 day) (2x Standard) <i>Signature</i>							Alias: Number: Container <i>Y</i> Sample Condition <i>Y</i> Temperature: <i>19.1°C</i> Shipped Via: <i>client</i> 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

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Page 1 of 2



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



Report Number: 21-012803/D004.R001
Report Date: 11/08/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/29/21 15:40

Revision: 2 Document ID: 3120
Legacy ID: CFL-C21Effective:

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 Units: mg/Kg Batch ID: 2109891										
Matrix Spike/Matrix Spike Duplicate Recoveries Sample ID: 21-012803-0001										
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.022	1.244	1.245	1.000	0.1%	< 30	122.2%	122.4%	50 - 150	
Acequinocyl	0.000	7.409	7.486	4.000	1.0%	< 30	185.2%	187.1%	50 - 150	Q1
Acetamiprid	0.000	0.559	0.563	0.400	0.6%	< 30	139.8%	140.7%	50 - 150	
Aldicarb	0.000	1.060	1.029	0.800	3.0%	< 30	182.5%	128.7%	50 - 150	
Abamectin	0.000	1.435	1.476	1.000	2.8%	< 30	143.5%	147.6%	50 - 150	
Azoxystrobin	0.000	0.627	0.637	0.400	1.6%	< 30	156.8%	159.3%	50 - 150	Q1
Bifenazate	0.000	0.570	0.581	0.400	1.9%	< 30	142.5%	145.3%	50 - 150	
Bifenthrin	0.000	0.764	0.763	0.400	0.1%	< 30	191.1%	190.8%	50 - 150	Q1
Boscalid	0.000	1.180	1.193	0.800	1.0%	< 30	147.5%	149.1%	50 - 150	
Carbaryl	0.000	0.569	0.566	0.400	0.6%	< 30	142.3%	141.5%	50 - 150	
Carbofuran	0.000	0.622	0.649	0.400	4.3%	< 30	155.4%	162.2%	50 - 150	Q1
Chlorantraniliprol	0.000	0.381	0.378	0.400	0.8%	< 30	95.3%	94.5%	50 - 150	
Chlorfenapyr	0.000	3.238	3.192	2.000	1.4%	< 30	161.9%	159.6%	50 - 150	Q1
Chlorpyrifos	0.040	0.880	0.879	0.400	0.1%	< 30	210.1%	209.9%	50 - 150	Q1
Clofentezine	0.000	0.398	0.399	0.400	0.1%	< 30	99.6%	99.6%	50 - 150	
Cyfluthrin	0.000	2.332	2.395	2.000	2.7%	< 30	116.6%	119.8%	30 - 150	
Cypermethrin	0.000	2.479	2.487	2.000	0.3%	< 30	124.0%	124.3%	50 - 150	
Daminozide	0.000	1.099	1.115	2.000	1.5%	< 30	55.0%	55.8%	30 - 150	
Diazinon	0.000	0.481	0.484	0.400	0.6%	< 30	120.2%	120.9%	50 - 150	
Dichlorvos	0.000	2.765	2.759	2.000	0.2%	< 30	138.2%	137.9%	50 - 150	
Dimethoat	0.000	0.554	0.559	0.400	1.0%	< 30	138.4%	139.8%	50 - 150	
Ethoprophos	0.002	0.558	0.554	0.400	0.7%	< 30	139.1%	138.1%	50 - 150	
Etofenprox	0.000	1.466	1.458	0.800	0.6%	< 30	183.3%	182.3%	50 - 150	Q1
Etoxazol	0.000	0.824	0.804	0.400	2.5%	< 30	206.0%	200.9%	50 - 150	Q1
Fenoxycarb	0.000	0.533	0.530	0.400	0.5%	< 30	133.2%	132.6%	50 - 150	
Fenpyroximat	0.000	1.213	1.229	0.800	1.3%	< 30	151.6%	153.6%	50 - 150	Q1
Fipronil	0.000	1.489	1.523	0.800	2.2%	< 30	186.1%	190.3%	50 - 150	Q1
Flonicamid	0.000	1.188	1.139	1.000	4.3%	< 30	118.8%	113.9%	50 - 150	
Fludioxonil	0.000	0.939	0.904	0.800	3.8%	< 30	117.4%	113.0%	50 - 150	
Hexythiazox	0.000	1.778	1.748	1.000	1.8%	< 30	177.8%	174.8%	50 - 150	Q1
Imazalil	0.000	0.539	0.540	0.400	0.1%	< 30	134.7%	134.9%	50 - 150	
Imidacloprid	0.000	0.794	0.797	0.800	0.4%	< 30	99.2%	99.6%	50 - 150	
Kresoxim-Methyl	0.000	1.211	1.182	0.800	2.5%	< 30	151.4%	147.7%	50 - 150	Q1
Malathion	0.000	0.612	0.599	0.400	2.3%	< 30	153.1%	149.7%	50 - 150	Q1
Metaxalyl	0.000	0.541	0.521	0.400	3.7%	< 30	135.2%	130.3%	50 - 150	
Methiocarb	0.000	0.544	0.541	0.400	0.5%	< 30	136.0%	135.3%	50 - 150	
Methomyl	0.000	0.939	0.825	0.800	13.0%	< 30	117.4%	103.1%	50 - 150	
MKG 264	0.000	0.558	0.563	0.400	0.9%	< 30	139.5%	140.7%	50 - 150	
Myclobutanil	0.000	0.549	0.546	0.400	0.4%	< 30	137.1%	136.6%	50 - 150	
Naled	0.000	1.342	1.295	1.000	3.6%	< 30	134.2%	129.5%	50 - 150	
Oxamyl	0.000	2.101	1.961	2.000	6.9%	< 30	105.1%	98.1%	50 - 150	
Paclobutrazol	0.000	1.141	1.128	0.800	1.1%	< 30	142.6%	141.0%	50 - 150	
Parathion Methyl	0.000	1.162	1.138	0.800	2.1%	< 30	145.3%	142.3%	30 - 150	
Permethrin	0.000	0.519	0.519	0.400	0.0%	< 30	129.7%	129.7%	50 - 150	
Phosmet	0.000	0.572	0.593	0.400	3.7%	< 30	142.9%	148.3%	50 - 150	
Piperonyl butoxide	0.000	4.545	4.408	2.000	3.1%	< 30	227.2%	220.4%	50 - 150	Q1
Prallethrin	0.000	0.350	0.359	0.400	2.6%	< 30	87.6%	89.8%	50 - 150	
Propiconazole	0.000	1.228	1.222	0.800	0.5%	< 30	153.5%	152.7%	50 - 150	Q1
Propoxur	0.000	0.569	0.566	0.400	0.5%	< 30	142.1%	141.5%	50 - 150	
Pyrethrins	0.000	0.469	0.475	0.413	1.4%	< 30	113.5%	115.1%	50 - 150	
Pyridaben	0.000	0.718	0.708	0.400	1.5%	< 30	179.5%	176.9%	50 - 150	Q1
Spinosad	0.000	0.695	0.661	0.388	5.0%	< 30	179.0%	170.3%	50 - 150	Q1
Spiromesifen	0.000	0.791	0.756	0.400	4.5%	< 30	197.7%	189.0%	50 - 150	Q1
Spirotetramat	0.000	0.473	0.461	0.400	2.5%	< 30	118.2%	115.3%	50 - 150	
Spiroxamine	0.000	1.060	1.065	0.800	0.5%	< 30	132.5%	133.1%	50 - 150	
Tebuconazol	0.000	1.158	1.182	0.800	2.1%	< 30	144.8%	147.8%	50 - 150	
Thiadoprid	0.000	0.550	0.544	0.400	1.1%	< 30	137.5%	136.0%	50 - 150	
Thiamethoxam	0.000	0.435	0.394	0.400	10.0%	< 30	108.8%	98.4%	50 - 150	
Trifloxystrobin	0.000	0.605	0.606	0.400	0.1%	< 30	151.3%	151.4%	50 - 150	Q1



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



Report Number: 21-012803/D004.R001
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Received: 10/29/21 15:40

Revision: 2 Document ID: 3120
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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 2109891				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Accephate	0.018	< 0.250		1.087	1.000	108.7	69.4 - 129	
Acequinocyl	0.000	< 1.000		3.990	4.000	99.7	73.5 - 137	
Acetamiprid	0.000	< 0.100		0.450	0.400	112.5	73.2 - 136	
Aldicarb	0.000	< 0.200		0.913	0.800	114.2	85.8 - 159	
Abamectin	0.000	< 0.250		1.307	1.000	130.7	75.7 - 141	
Azoxystrobin	0.009	< 0.100		0.492	0.400	123.0	70.8 - 132	
Bifenazate	0.000	< 0.100		0.495	0.400	123.8	74.0 - 137	
Bifenthrin	0.000	< 0.100		0.429	0.400	107.3	71.1 - 132	
Boscalid	0.000	< 0.200		1.017	0.800	127.1	74.6 - 139	
Carbaryl	0.000	< 0.100		0.464	0.400	115.9	73.4 - 136	
Carbofuran	0.000	< 0.100		0.441	0.400	110.2	72.1 - 134	
Chlorantraniliprol	0.000	< 0.100		0.362	0.400	90.5	72.0 - 134	
Chlorfenapyr	0.000	< 0.500		2.350	2.000	117.5	72.4 - 134	
Chlorpyrifos	0.005	< 0.100		0.517	0.400	129.3	69.9 - 130	
Clofentezine	0.000	< 0.100		0.258	0.400	64.4	40.7 - 75.7	
Cyfluthrin	0.000	< 0.500		2.426	2.000	121.3	78.1 - 145	
Cypermethrin	0.000	< 0.500		2.451	2.000	122.6	75.8 - 141	
Daminozide	0.068	< 0.500		0.792	2.000	39.6	26.3 - 48.9	
Diazinon	0.000	< 0.100		0.490	0.400	122.6	74.1 - 138	
Dichlorvos	0.000	< 0.500		2.465	2.000	123.3	79.4 - 147	
Dimethoat	0.000	< 0.100		0.440	0.400	110.0	71.4 - 133	
Ethoprophos	0.000	< 0.100		0.487	0.400	121.8	73.4 - 136	
Etofenprox	0.000	< 0.200		0.886	0.800	110.7	71.3 - 132	
Etoxazol	0.000	< 0.100		0.551	0.400	137.7	85.7 - 159	
Fenoxycarb	0.000	< 0.100		0.486	0.400	121.5	72.9 - 135	
Fenpyroximat	0.000	< 0.200		0.991	0.800	123.8	70.9 - 132	
Fipronil	0.008	< 0.200		1.053	0.800	131.7	72.1 - 134	
Flonicamid	0.000	< 0.250		1.251	1.000	125.1	74.5 - 138	
Fludioxonil	0.000	< 0.200		0.970	0.800	121.3	73.3 - 136	
Hexythiazox	0.000	< 0.250		1.197	1.000	119.7	68.5 - 127	
Imazalil	0.004	< 0.100		0.433	0.400	108.3	71.8 - 133	
Imidacloprid	0.000	< 0.200		0.999	0.800	124.8	73.5 - 137	
Kresoxim-Methyl	0.000	< 0.200		0.971	0.800	121.3	73.1 - 136	
Malathion	0.000	< 0.100		0.468	0.400	117.0	72.7 - 135	
Metaxalyl	0.000	< 0.100		0.443	0.400	110.8	72.9 - 135	
Methiocarb	0.000	< 0.100		0.487	0.400	121.8	73.7 - 137	
Methomyl	0.000	< 0.200		0.853	0.800	106.7	71.2 - 132	
MKG 264	0.000	< 0.100		0.509	0.400	127.3	74.4 - 138	
Myclobutanil	0.000	< 0.100		0.492	0.400	123.1	72.6 - 135	
Naled	0.063	< 0.250		0.667	1.000	66.7	36.9 - 68.5	
Oxamyl	0.000	< 0.500		2.195	2.000	109.8	71.8 - 133	
Paclobutrazol	0.000	< 0.200		0.926	0.800	115.8	73.5 - 136	
Parathion Methyl	0.000	< 0.200		0.857	0.800	107.1	71.9 - 133	
Permethrin	0.000	< 0.100		0.498	0.400	124.4	73.5 - 137	
Phosmet	0.000	< 0.100		0.470	0.400	117.5	73.3 - 136	
Piperonyl butoxide	0.043	< 0.500		2.449	2.000	122.4	73.6 - 137	
Prallethrin	0.000	< 0.100		0.447	0.400	111.6	71.6 - 133	
Propiconazole	0.004	< 0.200		0.991	0.800	123.9	74.3 - 138	
Propoxur	0.010	< 0.100		0.450	0.400	112.4	71.6 - 133	
Pyrethrins	0.010	< 0.100		0.385	0.413	93.2	73.9 - 137	
Pyridaben	0.000	< 0.100		0.487	0.400	121.8	74.3 - 138	
Spinosad	0.000	< 0.100		0.475	0.388	122.3	74.7 - 139	
Spiromesifen	0.000	< 0.100		0.485	0.400	121.3	74.2 - 138	
Spirotetramat	0.000	< 0.100		0.484	0.400	121.0	71.5 - 133	
Spiroxamine	0.000	< 0.200		0.909	0.800	113.7	71.4 - 133	
Tebuconazol	0.000	< 0.200		0.928	0.800	116.0	73.3 - 136	
Thiadoprid	0.000	< 0.100		0.429	0.400	107.2	73.2 - 136	
Thiamethoxam	0.000	< 0.100		0.456	0.400	113.9	73.6 - 137	
Trifloxystrobin	0.000	< 0.100		0.479	0.400	119.8	72.7 - 135	



12423 NE Whitaker Way
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503-254-1794



Report Number: 21-012803/D004.R001
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Revision # 0 00 Con rol CFL D06
Revision Date 05/31/2019 Effective Date 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6

Batch ID: 2109951

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.00979	0.01	%	97.9	85.0 - 115	Acceptable	
CBDV	0.0103	0.01	%	103	85.0 - 115	Acceptable	
CBE	0.0108	0.01	%	108	85.0 - 115	Acceptable	
CBDA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBGA	0.00985	0.01	%	98.5	85.0 - 115	Acceptable	
CBG	0.0105	0.01	%	105	85.0 - 115	Acceptable	
CBD	0.0107	0.01	%	107	85.0 - 115	Acceptable	
THCV	0.0100	0.01	%	100	85.0 - 115	Acceptable	
d8THCV	0.0102	0.01	%	102	85.0 - 115	Acceptable	
THCVA	0.00942	0.01	%	94.2	85.0 - 115	Acceptable	
CBN	0.0105	0.01	%	105	85.0 - 115	Acceptable	
exo-THC	0.0106	0.01	%	106	85.0 - 115	Acceptable	
d9THC	0.0101	0.01	%	101	85.0 - 115	Acceptable	
d8THC	0.00955	0.01	%	95.5	85.0 - 115	Acceptable	
CBL	0.00942	0.01	%	94.2	85.0 - 115	Acceptable	
CBC	0.0101	0.01	%	101	85.0 - 115	Acceptable	
THCA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBCA	0.00957	0.01	%	95.7	85.0 - 115	Acceptable	
CBLA	0.00996	0.01	%	99.6	85.0 - 115	Acceptable	
CBT	0.00972	0.01	%	97.2	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBDV	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBE	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBDA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBGA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBG	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBD	<LOQ	0.0006	%	< 0.0006	Acceptable	
THCV	<LOQ	0.0006	%	< 0.0006	Acceptable	
d8THCV	<LOQ	0.0006	%	< 0.0006	Acceptable	
THCVA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBN	<LOQ	0.0006	%	< 0.0006	Acceptable	
exo-THC	<LOQ	0.0006	%	< 0.0006	Acceptable	
d9THC	<LOQ	0.0006	%	< 0.0006	Acceptable	
d8THC	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBL	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBC	<LOQ	0.0006	%	< 0.0006	Acceptable	
THCA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBCA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBLA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBT	<LOQ	0.0006	%	< 0.0006	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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



Report Number: 21-012803/D004.R001
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Revision # 0.00 Control CFL D06
Revision Date 05/31/2019 Effective Date 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2109951						
Sample Duplicate		Sample ID: 21-012803-0001						
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	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.591	0.611	0.003	%	3.40	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<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	
d9THC	0.134	0.138	0.003	%	3.50	< 20	Acceptable	
d8THC	0.0398	0.0409	0.003	%	2.94	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.003	%	NA	< 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
NA - Calculation Not Applicable given non-numerical results

Units of Measure:

% - Percent



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



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Laboratory Quality Control Results									
Batch ID: 2 00 0									
Residual Solvents									
Method Blank									
Laboratory Control Sample									
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	200		3	0	µg/g	0	0	30
Isobutane	ND	200		56	9	µg/g	3	0	30
Butane	ND	200		530	9	µg/g	2.0	0	30
2,2-Dimethylpropane	ND	200		698	609	µg/g	6	0	30
Methanol	ND	200		860	6	µg/g	5.5	0	30
Ethyl ene Oxide	ND	0			38.9	µg/g	05	0	30
2 Methyl butane	ND	200		0	6	µg/g	06.2	0	30
Pentane	ND	200		0	6	µg/g	06.2	0	30
Ethanol	ND	200		60	6	µg/g	09.3	0	30
Ethyl Ether	ND	200		590	6	µg/g	98.8	0	30
2,2-Dimethylbutane	ND	0		63	6	µg/g	99	0	30
Acetone	ND	200		50	6	µg/g	08	0	30
2 Propanol	ND	200		880	6	µg/g	6.8	0	30
Ethyl Formate	ND	500		0	6	µg/g	89	0	30
Aceton trile	ND	00		55	8	µg/g	5	0	30
Methyl Acetate	ND	500		6	0	µg/g	00.0	0	30
2,3-Dimethylbutane	ND	0		95	6	µg/g	6.8	0	30
Dichloromethane	ND	60		92	9	µg/g	00.2	0	30
2 Methyl pentane	ND	0		68	65	µg/g	0	8	30
M. BE	ND	500		5	0	µg/g	98	0	30
3 Methyl pentane	ND	0		2	µg/g	02.9	0	30	
Hexane	ND	0		0	6	µg/g	0	8	30
Propanol	ND	500		6	0	µg/g	0	9	30
Methylethylketone	ND	500		6	0	µg/g	03	0	30
Ethyl acetate	ND	200		0	6	µg/g	09.9	0	30
2 Butanol	ND	200		860	6	µg/g	5.5	0	30
tetrahydrofuran	ND	00		5	0	µg/g	05.6	0	30
Cyclohexane	ND	200		660	6	µg/g	03	0	30
2 methyl propanol	ND	500		650	620	µg/g	0	9	30
Benzene	ND			5.26	5.36	µg/g	98	0	30
Isopropyl Acetate	ND	200		2	0	µg/g	3	5	30
Heptane	ND	200		2	20	µg/g	3	0	30
Butanol	ND	500		6	0	µg/g	03	0	30
Propyl Acetate	ND	500		9	0	µg/g	9	0	30
Dioxane	ND	00		9	89	µg/g	0	6	30
2 Ethoxyethanol	ND	0		6	6	µg/g	0	30	
Methylisobutylketone	ND	500		650	6	µg/g	9	0	30
3 Methyl butanol	ND	500		650	6	µg/g	9	0	30
Ethyl ene Glycol	ND	200		5	9	µg/g	9	0	30
oluene	ND	200		503	8	µg/g	03.9	0	30
Isobutyl Acetate	ND	500		980	6	µg/g	23.0	0	30
Pentanol	ND	500		2020	6	µg/g	25.5	0	30
Butyl Acetate	ND	500		9	0	µg/g	9	0	30
Ethyl benzene	ND	200		050	968	µg/g	08.5	0	30
m,p Xylene	ND	200		20	9	µg/g	6	0	30
o Xylene	ND	200		0	982	µg/g	3.0	0	30
Cumene	ND	0		80	69	µg/g	06.5	0	30
Anisole	ND	500		800	630	µg/g	0	0	30
DMSO	ND	500		0	630	µg/g	08.6	0	30
2 dimethoxyethane	ND	50		6	62	µg/g	08.6	0	30
diethylamine	ND	500		50	6	µg/g	0	8	30
N,N-dimethylformamide	ND	50		3	502	µg/g	88.2	0	30
N,N-dimethylacetamide	ND	50		5	85	µg/g	2.8	0	30
Pyridine	ND	50		3	66	µg/g	0	2	30
2 Dichloroethane	ND			2		µg/g	2.0	0	30
Chloroform	ND					µg/g	0	0	30
trichloroethylene	ND					µg/g	0	0	30



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QC Sample Duplicate

Sample ID: 21 012700 0001

Analyte	Result	Org. Result	LOQ Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Isobutane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Butane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
2,2 Dimethylpropane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Methanol	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Ethyl ene Oxide	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
2 Methyl butane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Pentane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Ethanol	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Ethyl Ether	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
2,2 Dimethylbutane	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
Acetone	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
2 Propanol	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Ethyl Formate	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Aceton trile	ND	ND	00 $\mu\text{g/g}$	0.0	20	Acceptable	
Methyl Acetate	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
2,3 Dimethylbutane	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
Dich oromethane	ND	ND	60 $\mu\text{g/g}$	0.0	20	Acceptable	
2 Methyl pentane	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
M. SE	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
3 Methyl pentane	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
Hexane	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
Propanol	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Methyl ethyl ketone	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Ethyl acetate	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
2 Butanol	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
tetrahydrofuran	ND	ND	00 $\mu\text{g/g}$	0.0	20	Acceptable	
Cyclohexane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
2 methyl propanol	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Benzene	ND	ND	$\mu\text{g/g}$	0.0	20	Acceptable	
Isopropyl Acetate	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Heptane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Butanol	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Propyl Acetate	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Glycane	ND	ND	00 $\mu\text{g/g}$	0.0	20	Acceptable	
2 Ethoxyethanol	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
Methylisobutylketone	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
3 Methyl butanol	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Ethyl ene Glycol	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
toluene	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Isobutyl Acetate	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Pentanol	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Butyl Acetate	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Ethyl benzene	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
m p Xylene	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
o Xy ene	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Cumene	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
Anisole	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
DMSO	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
2 dimethoxyethane	ND	ND	50 $\mu\text{g/g}$	0.0	20	Acceptable	
riethylamine	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
N N d methylformam de	ND	ND	50 $\mu\text{g/g}$	0.0	20	Acceptable	
N N d methylacetamide	ND	ND	50 $\mu\text{g/g}$	0.0	20	Acceptable	
Pyrid ne	ND	ND	50 $\mu\text{g/g}$	0.0	20	Acceptable	
2 Dichloroethane	ND	ND	$\mu\text{g/g}$	0.0	20	Acceptable	
Chloroform	ND	ND	$\mu\text{g/g}$	0.0	20	Acceptable	
richloroethylene	ND	ND	$\mu\text{g/g}$	0.0	20	Acceptable	

Abbreviations

ND None Detected at or above MRL

RPD Relative Percent D ifference

LOQ Limit of Quantitation

Q Quality control result biased high Only non detect samples reported

Units of Measure:

$\mu\text{g/g}$ M crogram per gram or ppm



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Report Number: 21-012803/D004.R001
Report Date: 11/08/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/29/21 15:40

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.