



Sample Information

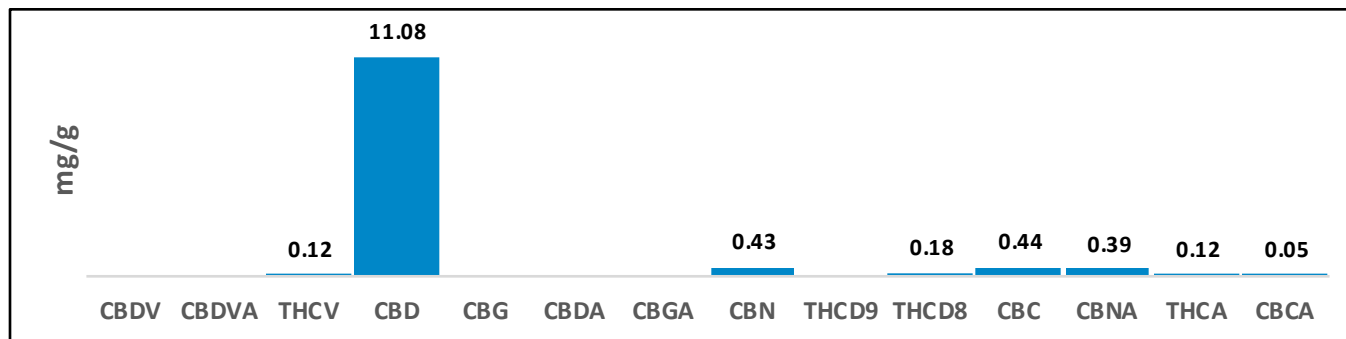
Test Date:	Feb 1, 2021, 2:32 PM	Sample Type:	Topicals
Sample / Strain Name:	ZAR iPUMP Muscle Gel 1000 mg	IL Unique ID:	ILCTS717-2
Lot # / Batch ID:	29A21189		
Sample Description:	Orange cream		
Notes:	Unit weight is 1 bottle = 100 grams		
Analyst Name:	Enrique Orci IV	Reviewer Name:	Ted Barton
Analyst Signature:	<i>Enrique Orci IV</i>	Reviewer Signature:	<i>Ted Barton</i>

Cannabinoid Potency and Profile

Cannabinoid	Result (%)	Result (mg/g)	mg / bottle
CBDV	N/D	N/D	N/D
CBDVA	N/D	N/D	N/D
THCV	0.01%	0.12	12.00
CBD	1.11%	11.08	1108.00
CBG	N/D	N/D	N/D
CBDA	N/D	N/D	N/D
CBGA	N/D	N/D	N/D
CBN	0.04%	0.43	43.00
THCD9	N/D	N/D	N/D
THCD8	0.02%	0.18	18.00
CBC	0.04%	0.44	44.00
CBNA	0.04%	0.39	39.00
THCA	0.01%	0.12	12.00
CBCA	0.01%	0.05	5.00
Totals	1.28%	12.81	1281.00



Total THC %	0.01%
Total THC mg / bottle	10.52
Total CBD %	1.11%
Total CBD mg / bottle	1108.00



THC Total = % of THCD9 + (% of THCA x 0.877), CBD Total = % of CBD + (% of CBDA x 0.877), CBG Total = % of CBG + (% of CBGA x 0.876), CBN Total = % of CBN + (% of CBNA x 0.876), CBC Total = % of CBC + (% of CBCA x 0.877), CBDV Total = % of CBDV + (% of CBDVA x 0.867), N/D = Not Detected

** Bud/Flower potency results are presented on a dry weight basis

Testing results are based solely upon the samples submitted to Ionization Labs, LLC. Ionization Labs warrants that all analytical work is conducted in accordance with all applicable standard laboratory practices using validated methods. This report may not be reproduced without the written consent of Ionization Labs.

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Texas Dept of Ag Account #: TL2020003



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



Report Number: 20-011819/D02.R00
Report Date: 11/06/2020
ORELAP#: OR100028
Purchase Order:
Received: 10/30/20 10:50

Customer: Deschutes Labs
Product identity: 1060418-2020-TF-05-DIS-01
Client/Metric ID: .
Laboratory ID: 20-011819-0002

Sample Date: 10/28/20 09:47

Summary

Potency:

Analyte	Result (%)	<ul style="list-style-type: none">CBDCBCCBNCBGCBDVCBL9-THC	CBD-Total 72.7%	
CBD	72.7		THC-Total 0.211%	
CBC	3.45		(Reported in percent of total sample)	
CBN	3.39			
CBG [†]	1.33			
CBDV [†]	0.540			
CBL [†]	0.265			
Δ9-THC	0.211			

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.



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Received: 10/30/20 10:50

Customer: Deschutes Labs

Product identity: 1060418-2020-TF-05-DIS-01
Client/Metric ID: .
Sample Date: 10/28/20 09:47
Laboratory ID: 20-011819-0002
Relinquished by: USPS
Temp: 18.6 °C

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)			Batch: 2009201	Analyze: 11/3/20 10:46:00 PM
Analyte	As Received	Dry weight	LOQ	Notes	
CBC	3.45		0.0917		
CBC-A†	< LOQ		0.0917		
CBC-Total†	3.45		0.172		
CBD	72.7		0.917		
CBD-A	< LOQ		0.0917		
CBD-Total	72.7		0.998		
CBDV†	0.540		0.0917		
CBDV-A†	< LOQ		0.0917		
CBDV-Total†	0.540		0.171		
CBG†	1.33		0.0917		
CBG-A†	< LOQ		0.0917		
CBG-Total	1.33		0.171		
CBL†	0.265		0.0917		
CBN	3.39		0.0917		
Δ8-THC†	< LOQ		0.0917		
Δ9-THC	0.211		0.0917		
THC-A	< LOQ		0.0917		
THC-Total	0.211		0.172		
THCV†	< LOQ		0.0917		
THCV-A†	< LOQ		0.0917		
THCV-Total†	< LOQ		0.171		
Total Cannabinoids†	81.9				



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Received: 10/30/20 10:50

Solvents						Method EPA5021A	Units µg/g	Batch 2009095	Analyze 11/02/20 09:15 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	< LOQ		200				
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass			
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< 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		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	30.0	pass			
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass			
Isopropylbenzene	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200				
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	200	pass			
Methylpropane	< 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	< LOQ	2170	600	pass			



Pesticides									
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2009293 Analyze 11/06/20 12:15 PM									
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100
Boscalid	< LOQ	0.40	0.200	pass		Carbaryl	< LOQ	0.20	0.100
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200
Fipronil	< LOQ	0.40	0.200	pass		Flonicamid	< LOQ	1.0	0.400
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250
Oxamyl	< LOQ	1.0	0.500	pass		Paclobutrazole	< LOQ	0.40	0.200
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00
Prallethrin	< LOQ	0.20	0.200	pass		Propiconazole	< LOQ	0.40	0.200
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< LOQ	1.0	0.500
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100
Trifloxystrobin	< LOQ	0.20	0.100	pass					

Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.0493	2009228	11/04/20	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0493	2009228	11/04/20	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.0493	2009228	11/04/20	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.0246	2009228	11/04/20	AOAC 2013.06 (mod.)	X	



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Report Number: 20-011819/D02.R00
Report Date: 11/06/2020
ORELAP#: OR100028
Purchase Order:
Received: 10/30/20 10:50

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

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

µg/g = Microgram per gram

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

% = 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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Report Number: 20-011819/D02.R00
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Received: 10/30/20 10:50



Columbia Laboratories
Sample Receipt Form

Revision: 1.01 Document Control: CF015
Revised: 02/28/2020 Effective: 02/28/2020

Job Number: 20-011819 Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 10/30 Time: 1050

Received By (Initials): JB

- 1) Were custody seals on outside of the package/cooler? YES NO NA
If YES, how many and where? _____
Were signature and date correct? _____ YES NO NA
- 2) Were custody papers included in the package/cooler? YES NO NA
- 3) Were custody papers properly filled out (ink, sign, date)? YES NO NA
- 4) Did you sign custody papers in the appropriate place? YES NO NA
- 5) How was the package/cooler delivered?

UPS FEDEX USPS CLIENT COURIER OTHER: _____

Tracking Number (written in or copy of shipping label): 9405 5036 9930 0109 517804

- 6) Was packing material used? YES NO NA

2 Peanuts Bubble Wrap Foam Paper Other: _____

- 7) Was sufficient ice used (if appropriate)? 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

- 15) Temperature of the samples upon receipt (See SOP for proper temps) 18.6 °C

- 16) Sample location prior to login: R25 R39 R44 F44 Ambient Shelf Cannabis Table Other: _____

Explain any discrepancies: _____

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Received: 10/30/20 10:50

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2009095			
Method Blank				Laboratory Control Sample			
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec Limits Notes
Gas Mix	Propane	ND	< 200	504	595	µg/g	84.7 70 - 130
Gas Mix	Isobutane	ND	< 200	665	761	µg/g	87.4 70 - 130
Gas Mix	Butane	ND	< 200	677	761	µg/g	89.0 70 - 130
Gas Mix	2,2-Dimethylpropane	ND	< 200	832	955	µg/g	87.1 70 - 130
Liquid Mix 1	Methanol	ND	< 200	1460	1610	µg/g	90.7 70 - 130
Gas Mix	Ethylene Oxide	ND	< 30	51.2	58.3	µg/g	87.8 70 - 130
Liquid Mix 1	2-Methylbutane	ND	< 200	1560	1600	µg/g	97.5 70 - 130
Liquid Mix 1	Pentane	ND	< 200	1500	1610	µg/g	93.2 70 - 130
Liquid Mix 1	Ethanol	ND	< 200	1450	1610	µg/g	90.1 70 - 130
Liquid Mix 1	Ethyl Ether	ND	< 200	1520	1610	µg/g	94.4 70 - 130
Liquid Mix 1	2,2-Dimethylbutane	ND	< 30	155	168	µg/g	92.3 70 - 130
Liquid Mix 1	Acetone	ND	< 200	1490	1610	µg/g	92.5 70 - 130
Liquid Mix 1	2-Propanol	ND	< 200	1450	1600	µg/g	90.6 70 - 130
Liquid Mix 2	Ethyl Formate	ND	< 500	1570	1710	µg/g	91.8 70 - 130
Liquid Mix 1	Acetonitrile	ND	< 100	456	486	µg/g	93.8 70 - 130
Liquid Mix 2	Methyl Acetate	ND	< 500	1550	1610	µg/g	96.3 70 - 130
Liquid Mix 1	2,3-Dimethylbutane	ND	< 30	127	162	µg/g	78.4 70 - 130
Liquid Mix 1	Dichloromethane	ND	< 200	463	490	µg/g	94.5 70 - 130
Liquid Mix 1	2-Methylpentane	ND	< 30	146	164	µg/g	89.0 70 - 130
Liquid Mix 2	MTBE	ND	< 500	1560	1620	µg/g	96.3 70 - 130
Liquid Mix 1	3-Methylpentane	ND	< 30	149	166	µg/g	89.8 70 - 130
Liquid Mix 1	Hexane	ND	< 30	147	167	µg/g	88.0 70 - 130
Liquid Mix 2	1-Propanol	ND	< 500	1480	1600	µg/g	92.5 70 - 130
Liquid Mix 2	Methyl ethyl ketone	ND	< 500	1500	1610	µg/g	93.2 70 - 130
Liquid Mix 1	Ethyl acetate	ND	< 200	1430	1610	µg/g	88.8 70 - 130
Liquid Mix 1	2-Butanol	ND	< 200	1400	1610	µg/g	87.0 70 - 130
Liquid Mix 1	Tetrahydrofuran	ND	< 100	436	484	µg/g	90.1 70 - 130
Liquid Mix 1	Cyclohexane	ND	< 200	1460	1610	µg/g	90.7 70 - 130
Liquid Mix 2	2-methyl-1-propanol	ND	< 500	1490	1610	µg/g	92.5 70 - 130
Liquid Mix 1	Benzene	ND	< 1	24.6	24.5	µg/g	100.4 70 - 130
Liquid Mix 1	Isopropyl Acetate	ND	< 200	1390	1620	µg/g	85.8 70 - 130
Liquid Mix 1	Heptane	ND	< 200	1440	1610	µg/g	89.4 70 - 130
Liquid Mix 2	1-Butanol	ND	< 500	1480	1600	µg/g	92.5 70 - 130
Liquid Mix 2	Propyl Acetate	ND	< 500	1470	1620	µg/g	90.7 70 - 130
Liquid Mix 1	1,4-Dioxane	ND	< 100	440	484	µg/g	90.9 70 - 130
Liquid Mix 1	2-Ethoxyethanol	ND	< 30	146	186	µg/g	78.5 70 - 130
Liquid Mix 2	Methylisobutylketone	ND	< 500	1460	1610	µg/g	90.7 70 - 130
Liquid Mix 2	3-Methyl-1-butanol	ND	< 500	1440	1610	µg/g	89.4 70 - 130
Liquid Mix 1	Ethylene Glycol	ND	< 200	418	509	µg/g	82.1 70 - 130
Liquid Mix 1	Toluene	ND	< 200	438	492	µg/g	89.0 70 - 130
Liquid Mix 2	Isobutyl Acetate	ND	< 500	1440	1610	µg/g	89.4 70 - 130
Liquid Mix 2	1-Pentanol	ND	< 500	1440	1620	µg/g	88.9 70 - 130
Liquid Mix 2	Butyl Acetate	ND	< 500	1440	1610	µg/g	89.4 70 - 130
Liquid Mix 1	Ethylbenzene	ND	< 200	847	971	µg/g	87.2 70 - 130
Liquid Mix 1	m,p-Xylene	ND	< 200	851	975	µg/g	87.3 70 - 130
Liquid Mix 1	o-Xylene	ND	< 200	882	966	µg/g	91.3 70 - 130
Liquid Mix 1	Cumene	ND	< 30	156	167	µg/g	93.4 70 - 130
Liquid Mix 2	Anisole	ND	< 500	1450	1610	µg/g	90.1 70 - 130
Liquid Mix 2	DMSO	ND	< 500	1480	1650	µg/g	89.7 70 - 130
Liquid Mix 2	1,2-dimethoxyethane	ND	< 50	143	170	µg/g	84.1 70 - 130
Liquid Mix 2	Triethylamine	ND	< 500	1440	1610	µg/g	89.4 70 - 130
Liquid Mix 2	N,N-dimethylformamide	ND	< 150	449	490	µg/g	91.6 70 - 130
Liquid Mix 2	N,N-dimethylacetamide	ND	< 150	418	485	µg/g	86.2 70 - 130
Liquid Mix 2	Pyridine	ND	< 50	147	167	µg/g	88.0 70 - 130



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Report Date: 11/06/2020
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Purchase Order:
Received: 10/30/20 10:50

QC - Sample Duplicate		Sample ID: 20-011830-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Gas Mix	Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Gas Mix	Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Gas Mix	Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Gas Mix	2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable
Gas Mix	Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Dichloromethane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	MTBE	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Methyl ethyl ketone	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Toluene	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Cumene	ND	33.1	30	µg/g	9.8	< 20	Acceptable
Liquid Mix 2	Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation
* Screening only
Q1 - Quality Control result biased high. Only non detect samples reported.

Units of Measure:

µg/g - Microgram per gram or ppm
mg/Kg - Milligrams per Kilogram
Aw - Water Activity unit



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



Report Number: 20-011819/D02.R00
Report Date: 11/06/2020
ORELAP#: OR100028
Purchase Order:
Received: 10/30/20 10:50

QC - Sample Duplicate		Sample ID: 20-011830-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Gas Mix	Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Gas Mix	Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Gas Mix	Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Gas Mix	2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable
Gas Mix	Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Dichloromethane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	MTBE	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Methyl ethyl ketone	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Toluene	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable
Liquid Mix 1	Cumene	ND	33.1	30	µg/g	9.8	< 20	Acceptable
Liquid Mix 2	Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable
Liquid Mix 2	Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation
* Screening only
Q1 - Quality Control result biased high. Only non detect samples reported.

Units of Measure:

µg/g - Microgram per gram or ppm
mg/Kg - Milligrams per Kilogram
Aw - Water Activity unit



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



Report Number: 20-011819/D02.R00
Report Date: 11/06/2020
ORELAP#: OR100028
Purchase Order:
Received: 10/30/20 10:50

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: 2009201				
Sample Duplicate				Sample ID: 20-011819-0001				
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	0.317	0.334	0.1	%	5.37	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBD	>98.0	>98.0	0.1	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.1	%	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



Report Number: 20-011819/D02.R00
Report Date: 11/06/2020
ORELAP#: OR100028
Purchase Order:
Received: 10/30/20 10:50

Revision: 1.00 Control: CFL-C21
Revised: 08/12/2019 Effective: 08/15/2019

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 2009293				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	0.010	< 0.200		0.987	1.000	98.7	72.4 - 126	
Acequinocyl	0.040	< 1.000		3.987	4.000	99.7	79.8 - 122	
Acetamiprid	0.010	< 0.100		0.395	0.400	98.8	84.3 - 119	
Aldicarb	0.000	< 0.200		0.681	0.800	85.1	82.9 - 120	
Abamectin	0.003	< 0.288		0.999	1.000	99.9	79.6 - 124	
Azoxystrobin	0.009	< 0.100		0.406	0.400	101.5	79.4 - 127	
Bifenazate	0.004	< 0.100		0.412	0.400	102.9	81.6 - 124	
Bifenthrin	0.000	< 0.100		0.385	0.400	96.2	71.5 - 133	
Boscalid	0.000	< 0.100		0.716	0.800	89.5	74.0 - 131	
Carbaryl	0.000	< 0.100		0.379	0.400	94.6	82.1 - 121	
Carbofuran	0.007	< 0.100		0.392	0.400	97.9	85.1 - 125	
Chlorantraniliprol	0.000	< 0.100		0.406	0.400	101.5	70.6 - 131	
Chlorfenapyr	0.000	< 1.000		2.098	2.000	104.9	71.0 - 132	
Chlorpyrifos	0.000	< 0.100		0.387	0.400	96.8	72.3 - 134	
Clofentazine	0.000	< 0.100		0.369	0.400	92.2	80.1 - 117	
Cyfluthrin	0.000	< 1.000		2.052	2.000	102.6	71.8 - 133	
Cypermethrin	0.000	< 1.000		2.043	2.000	102.1	83.1 - 126	
Daminozide	0.037	< 1.000		1.891	2.000	94.6	74.6 - 124	
Diazinon	0.004	< 0.100		0.370	0.400	92.5	78.9 - 126	
Dichlorvos	0.026	< 0.500		1.888	2.000	94.4	76.1 - 124	
Dimethoat	0.000	< 0.100		0.386	0.400	96.6	82.8 - 119	
Ethoprophos	0.000	< 0.100		0.388	0.400	96.9	69.5 - 129	
Etofenprox	0.000	< 0.100		0.786	0.800	98.2	85.2 - 128	
Etoxazol	0.006	< 0.100		0.372	0.400	93.0	79.7 - 126	
Fenoxycarb	0.000	< 0.100		0.391	0.400	97.7	84.1 - 122	
Fenpyroximat	0.010	< 0.100		0.767	0.800	95.9	82.4 - 126	
Fipronil	0.000	< 0.100		0.688	0.800	86.0	80.6 - 125	
Flonicamid	0.000	< 0.400		0.923	1.000	92.3	80.9 - 119	
Fludioxonil	0.000	< 0.100		0.776	0.800	97.0	73.0 - 136	
Hexythiazox	0.000	< 0.400		0.961	1.000	96.1	82.5 - 125	
Imazalil	0.000	< 0.100		0.395	0.400	98.7	81.4 - 128	
Imidacloprid	0.003	< 0.200		0.773	0.800	96.6	76.9 - 125	
Kresoxim-Methyl	0.000	< 0.100		0.799	0.800	99.9	82.6 - 124	
Malathion	0.005	< 0.100		0.372	0.400	93.0	74.1 - 130	
Metaxyl	0.000	< 0.100		0.394	0.400	98.5	79.7 - 124	
Methiocarb	0.008	< 0.100		0.370	0.400	92.6	81.0 - 123	
Methomyl	0.000	< 0.200		0.753	0.800	94.1	79.4 - 118	
MGK 264	0.000	< 0.100		0.399	0.400	99.7	77.2 - 128	
Myclobutanil	0.000	< 0.100		0.376	0.400	94.0	80.6 - 123	
Naled	0.000	< 0.200		0.876	1.000	87.6	80.3 - 126	
Oxamyl	0.000	< 0.400		1.823	2.000	91.1	80.1 - 117	
Paclobutrazol	0.000	< 0.200		0.765	0.800	95.6	81.6 - 126	
Parathion Methyl	0.000	< 0.200		0.788	0.800	98.5	72.5 - 135	
Permethrin	0.000	< 0.100		0.387	0.400	96.8	75.0 - 139	
Phosmet	0.002	< 0.100		0.395	0.400	98.7	82.0 - 122	
Piperonyl butoxide	0.041	< 1.000		1.906	2.000	95.3	81.3 - 137	
Prallethrin	0.029	< 0.200		0.378	0.400	94.4	81.3 - 127	
Propiconazole	0.010	< 0.200		0.803	0.800	100.3	84.7 - 121	
Propoxur	0.008	< 0.100		0.377	0.400	94.2	84.2 - 121	
Pyrethrins	0.001	< 0.500		0.401	0.413	97.1	76.1 - 141	
Pyridaben	0.000	< 0.100		0.448	0.400	112.1	79.2 - 147	
Spinosad	0.000	< 0.100		0.381	0.388	98.3	88.4 - 127	
Spiromesifen	0.000	< 0.100		0.368	0.400	92.0	79.9 - 127	
Spirotetramat	0.005	< 0.100		0.374	0.400	93.5	81.1 - 121	
Spiroxamine	0.011	< 0.100		0.787	0.800	98.4	78.4 - 133	
Tebuconazol	0.000	< 0.200		0.786	0.800	98.3	83.1 - 122	
Thiacloprid	0.000	< 0.100		0.398	0.400	99.5	84.3 - 120	
Thiamethoxam	0.000	< 0.100		0.386	0.400	96.6	80.1 - 121	
Trifloxystrobin	0.004	< 0.100		0.380	0.400	95.0	81.4 - 125	



12423 NE Whitaker Way
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503-254-1794



Report Number: 20-011819/D02.R00
Report Date: 11/06/2020
ORELAP#: OR100028
Purchase Order:
Received: 10/30/20 10:50

Revision: 1.00 Control: CFL-C21
Revised: 08/12/2019 Effective: 08/15/2019

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg				Batch ID: 2009293					
Matrix Spike/Matrix Spike Duplicate Recoveries						Sample ID: 20-011819-0001					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Acephate	0.006	1.002	1.026	1.000	2.4%	< 30	99.6%	102.0%	50 - 150		
Acequinocyl	0.000	4.061	4.039	4.000	0.5%	< 30	101.5%	101.0%	50 - 150		
Acetamiprid	0.011	0.383	0.389	0.400	1.8%	< 30	92.8%	94.5%	50 - 150		
Aldicarb	0.000	0.778	0.711	0.800	9.0%	< 30	97.2%	88.8%	50 - 150		
Abamectin	0.000	1.293	1.312	1.000	1.5%	< 30	129.3%	131.2%	50 - 150		
Azoxystrobin	0.007	0.425	0.473	0.400	10.9%	< 30	104.6%	116.6%	50 - 150		
Bifenazate	0.003	0.415	0.386	0.400	7.5%	< 30	103.1%	95.7%	50 - 150		
Bifenthrin	0.000	0.655	0.631	0.400	3.6%	< 30	163.6%	157.8%	50 - 150	Q1	
Boscalid	0.000	0.765	0.759	0.800	0.8%	< 30	95.6%	94.8%	50 - 150		
Carbaryl	0.000	0.388	0.386	0.400	0.4%	< 30	96.9%	96.5%	50 - 150		
Carbofuran	0.000	0.389	0.380	0.400	2.4%	< 30	97.2%	94.9%	50 - 150		
Chlorantraniliprol	0.000	0.403	0.418	0.400	3.7%	< 30	100.8%	104.6%	50 - 150		
Chlorfenapyr	0.000	2.236	2.075	2.000	7.4%	< 30	111.8%	103.8%	50 - 150		
Chlorpyrifos	0.000	0.179	0.182	0.400	1.6%	< 30	44.7%	45.4%	50 - 150	Q	
Clofentazine	0.000	0.404	0.403	0.400	0.3%	< 30	101.1%	100.8%	50 - 150		
Cyfluthrin	0.000	3.289	3.010	2.000	8.9%	< 30	164.4%	150.5%	30 - 150	Q1	
Cypermethrin	0.000	2.227	2.532	2.000	12.8%	< 30	111.4%	126.6%	50 - 150		
Daminozide	0.035	1.652	1.659	2.000	0.4%	< 30	80.8%	81.2%	30 - 150		
Diazinon	0.004	0.456	0.431	0.400	5.6%	< 30	113.1%	106.9%	50 - 150		
Dichlorvos	0.023	1.946	1.831	2.000	6.2%	< 30	96.2%	90.4%	50 - 150		
Dimethoat	0.000	0.383	0.388	0.400	1.0%	< 30	95.9%	96.9%	50 - 150		
Ethoprophos	0.000	0.374	0.369	0.400	1.5%	< 30	93.5%	92.2%	50 - 150		
Etofenprox	0.000	0.792	0.686	0.800	14.5%	< 30	99.1%	85.7%	50 - 150		
Etoxazol	0.001	0.406	0.436	0.400	7.1%	< 30	101.4%	108.9%	50 - 150		
Fenoxycarb	0.000	0.410	0.417	0.400	1.8%	< 30	102.5%	104.3%	50 - 150		
Fenpyroximat	0.000	0.867	0.821	0.800	5.4%	< 30	108.4%	102.7%	50 - 150		
Fipronil	0.000	1.079	1.035	0.800	4.1%	< 30	134.8%	129.4%	50 - 150		
Flonicamid	0.000	0.943	1.010	1.000	6.8%	< 30	94.3%	101.0%	50 - 150		
Fludioxonil	0.000	0.702	0.800	0.800	13.0%	< 30	87.7%	99.9%	50 - 150		
Hexythiazox	0.000	0.972	0.986	1.000	1.4%	< 30	97.2%	98.6%	50 - 150		
Imazalil	0.000	0.336	0.336	0.400	0.1%	< 30	84.0%	84.1%	50 - 150		
Imidacloprid	0.002	0.798	0.841	0.800	5.3%	< 30	99.4%	104.9%	50 - 150		
Kresoxim-Methyl	0.000	0.752	0.812	0.800	7.6%	< 30	94.0%	101.5%	50 - 150		
Malathion	0.002	0.431	0.432	0.400	0.1%	< 30	107.2%	107.4%	50 - 150		
Metalaxyl	0.000	0.387	0.394	0.400	1.8%	< 30	96.8%	98.6%	50 - 150		
Methiocarb	0.007	0.416	0.413	0.400	0.6%	< 30	102.2%	101.5%	50 - 150		
Methomyl	0.000	0.711	0.747	0.800	5.0%	< 30	88.8%	93.4%	50 - 150		
MGK 264	0.000	0.368	0.366	0.400	0.5%	< 30	91.9%	91.5%	50 - 150		
Myclobutanil	0.000	0.398	0.381	0.400	4.2%	< 30	99.4%	95.3%	50 - 150		
Naled	0.000	1.023	1.069	1.000	4.4%	< 30	102.3%	106.9%	50 - 150		
Oxamyl	0.000	1.716	2.019	2.000	16.2%	< 30	85.8%	100.9%	50 - 150		
Paclobutrazol	0.000	0.855	0.847	0.800	1.0%	< 30	106.9%	105.8%	50 - 150		
Parathion Methyl	0.000	0.957	0.835	0.800	13.6%	< 30	119.6%	104.4%	30 - 150		
Permethrin	0.000	0.431	0.400	0.400	7.5%	< 30	107.8%	100.0%	50 - 150		
Phosmet	0.002	0.367	0.368	0.400	0.3%	< 30	91.3%	91.6%	50 - 150		
Piperonyl butoxide	0.000	2.185	2.179	2.000	0.3%	< 30	109.3%	109.0%	50 - 150		
Prallethrin	0.031	0.532	0.544	0.400	2.4%	< 30	125.3%	128.3%	50 - 150		
Propiconazole	0.000	0.902	0.911	0.800	1.0%	< 30	112.7%	113.9%	50 - 150		
Propoxur	0.006	0.389	0.375	0.400	3.7%	< 30	95.8%	92.3%	50 - 150		
Pyrethrins	0.005	0.521	0.570	0.413	9.1%	< 30	124.9%	136.8%	50 - 150		
Pyridaben	0.000	0.349	0.379	0.400	8.2%	< 30	87.3%	94.8%	50 - 150		
Spinosad	0.003	0.333	0.346	0.388	3.6%	< 30	85.1%	88.3%	50 - 150		
Spiromesifen	0.000	0.389	0.417	0.400	7.0%	< 30	97.2%	104.3%	50 - 150		
Spirotetramat	0.000	0.368	0.388	0.400	5.5%	< 30	91.9%	97.0%	50 - 150		
Spiroxamine	0.010	0.721	0.771	0.800	6.9%	< 30	88.9%	95.2%	50 - 150		
Tebuconazol	0.000	0.950	0.965	0.800	1.5%	< 30	118.8%	120.6%	50 - 150		
Thiacloprid	0.000	0.399	0.374	0.400	6.5%	< 30	99.7%	93.5%	50 - 150		
Thiamethoxam	0.000	0.369	0.403	0.400	8.8%	< 30	92.4%	100.9%	50 - 150		
Trifloxystrobin	0.003	0.411	0.414	0.400	0.8%	< 30	101.9%	102.8%	50 - 150		



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Report Number: 20-011819/D02.R00
Report Date: 11/06/2020
ORELAP#: OR100028
Purchase Order:
Received: 10/30/20 10:50

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.