



Sample Information

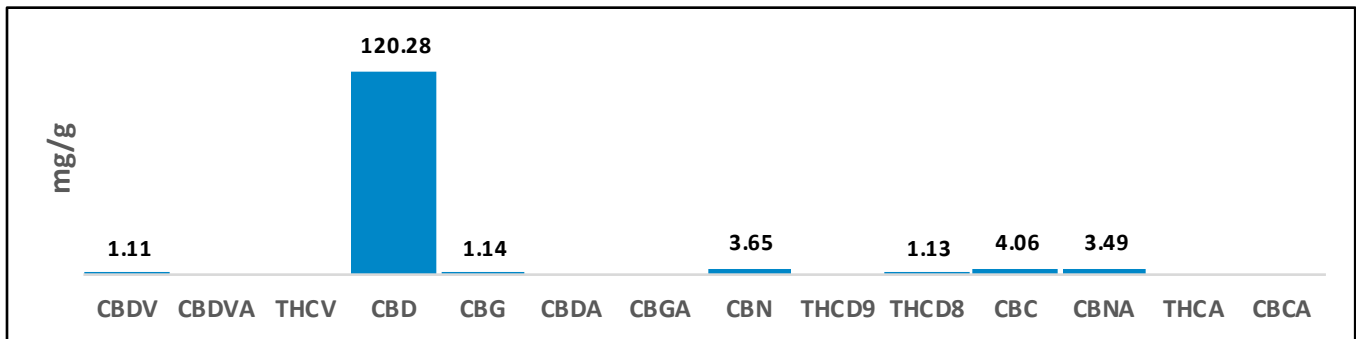
Test Date:	Mar 5, 2021, 8:38 PM	Sample Type:	Tincture
Sample / Strain Name:	ZAR Spearmint 3000 mg FS	IL Unique ID:	ILCTS814-2
Lot # / Batch ID:	02C211B5		
Sample Description:	Light brown tincture in amber bottle		
Notes:	Unit weight is 1 oz bottle = 28 grams		
Analyst Name:	Enrique Orci IV	Reviewer Name:	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	0.11%	1.11	31.08
CBDVA	N/D	N/D	N/D
THCV	N/D	N/D	N/D
CBD	12.03%	120.28	3367.84
CBG	0.11%	1.14	31.92
CBDA	N/D	N/D	N/D
CBGA	N/D	N/D	N/D
CBN	0.36%	3.65	102.20
THCD9	N/D	N/D	N/D
THCD8	0.11%	1.13	31.64
CBC	0.41%	4.06	113.68
CBNA	0.35%	3.49	97.72
THCA	N/D	N/D	N/D
CBCA	N/D	N/D	N/D
Totals	13.48%	134.86	3776.08



Total THC %	0.00%
Total THC mg / bottle	0.00
Total CBD %	12.03%
Total CBD mg / bottle	3367.84



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.

ISO 17025 Accredited
A2LA Certificate #: 5756.01
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 (%)		
CBD	72.7	<ul style="list-style-type: none"> ● CBD ● CBC ● CBN ● CBG ● CBDV ● CBL ● 9-THC 	CBD-Total 72.7%
CBC	3.45		THC-Total 0.211%
CBN	3.39		(Reported in percent of total sample)
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.

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0430



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: .
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			



Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0410 OAR 333-007-0430



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



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	



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



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	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	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	



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

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



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



Hemp / Cannabis Usable / Extract
Chain of Custody Record

Revision: 3.01 Control#: CF023 Rev 02/26/2020 Eff: 02/27/2020
ORELAP ID: OR100028

DESCHUTESLABS 20-011819



Deschutes Labs

Company: Deschutes Labs Contact: Drew Van Roekel Street: 2020 NW Industrial Park Rd City: Prineville State: OR Zip: 97754 <input checked="" type="checkbox"/> Email Results: Drew@Deschuteslabs.com Ph: () Fx Results: () Billing (if different):				Analysis Requested					PO Number: _____ Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input type="checkbox"/> Standard <input type="checkbox"/> Rush * <input type="checkbox"/> Priority Rush * <i>*Ask for availability</i> Sampled by: _____		
Lab ID	Client Sample Identification	Date	Time	Low potency CBDV	Potency	Pesticides	Residual Solvents	Heavy Metals	Sample Type †	Weight (Units)	Comments/Metric ID
1	1060418-2020-KLER-53-2ISO-01	10/28/20	9:47	✓	✓	✓	✓	✓	Ie	5g	Testing cancelled Per client email 10/30-20
2	1060418-2020-TF-05-DIS-01	10/28/20	9:47		✓	✓	✓	✓	C	5g	
3	1060418-2020-TF-04-TFD-X2	10/28/20	9:47		✓	✓	✓	✓	C	5g	
4	1060418-2020-SH-04-CRD-01	10/28/20	9:47		✓				C	5g	
		10/28/20							C		
		10/28/20							C		
		10/28/20							C		
		10/28/20							C		
		10/28/20							C		
		10/28/20							C		
		10/28/20							C		
		10/28/20							C		
		10/28/20							C		
Relinquished By:		Date	Time	Received By:		Date	Time	Lab Use Only:			
Drew Van Roekel		10/28/20	0948	JB		10/30	1050	<input checked="" type="checkbox"/> Shipped Via: <u>USPS</u> or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>18.6</u> Sample in good condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: _____ Prelog storage: _____			

† - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms

12423 NE Whitaker Way
Portland, OR 97230

P: (503) 254-1794 | Fax: (503) 254-1452
info@columbiaboratories.com

Page 1 of 2
www.columbiaboratories.com



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



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
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: _____

Page 2 of 2

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.
Testing in accordance with: OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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

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



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/l	0.0	< 20	Acceptable	
Gas Mix Isobutane	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Gas Mix Butane	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Gas Mix 2,2-Dimethylpropane	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Methanol	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Gas Mix Ethylene Oxide	ND	ND	30	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 2-Methylbutane	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Pentane	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Ethanol	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Ethyl Ether	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 2,2-Dimethylbutane	ND	ND	30	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Acetone	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 2-Propanol	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 Ethyl Formate	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Acetonitrile	ND	ND	100	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 Methyl Acetate	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 2,3-Dimethylbutane	ND	ND	30	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Dichloromethane	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 2-Methylpentane	ND	ND	30	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 MTBE	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 3-Methylpentane	ND	ND	30	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Hexane	ND	ND	30	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 1-Propanol	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 Methyl ethyl ketone	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Ethyl acetate	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 2-Butanol	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Tetrahydrofuran	ND	ND	100	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Cyclohexane	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 2-methyl-1-propanol	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Benzene	ND	ND	1	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Isopropyl Acetate	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Heptane	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 1-Butanol	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 Propyl Acetate	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 1,4-Dioxane	ND	ND	100	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 2-Ethoxyethanol	ND	ND	30	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 Methylisobutylketone	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 3-Methyl-1-butanol	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Ethylene Glycol	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Toluene	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 Isobutyl Acetate	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 1-Pentanol	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 Butyl Acetate	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Ethylbenzene	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 m,p-Xylene	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 o-Xylene	ND	ND	200	µg/l	0.0	< 20	Acceptable	
Liquid Mix 1 Cumene	ND	33.1	30	µg/l	9.8	< 20	Acceptable	
Liquid Mix 2 Anisole	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 DMSO	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 1,2-dimethoxyethane	ND	ND	50	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 Triethylamine	ND	ND	500	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 N,N-dimethylformamide	ND	ND	150	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 N,N-dimethylacetamide	ND	ND	150	µg/l	0.0	< 20	Acceptable	
Liquid Mix 2 Pyridine	ND	ND	50	µg/l	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	
Metalaxyl	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
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				
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		
Flipronil	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		



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



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.