Ionization Labs

Certification of Analysis

labservices@ionizationlabs.com
737.231.0772

Prepared For: RAZAD Enterprises LLC
Plano, TX 75024

Sample Information

Test Date:	Feb 4, 2021, 10:43 AM
Sample / Strain Name:	ZAR 1000 mg FS VT
Lot # / Batch ID:	02B2118F

Sample Type:	Tincture
IL Unique ID:	ILCTS731-1

Sample Description:	Clear yellow tincture oil
Notes:	Unit weight is 1 bottle = 28 grams

Analyst Name:	Enrique Orci IV
Analyst Signature:	Enrique Orci IV

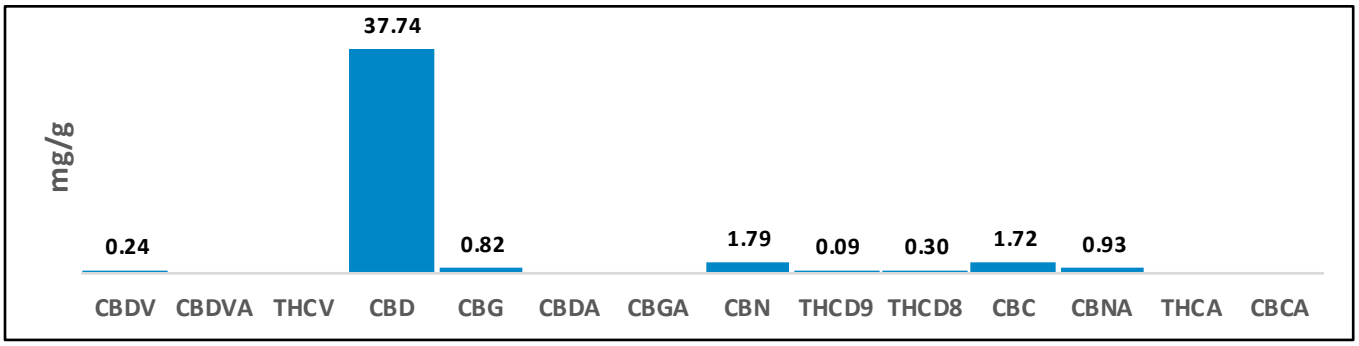
Reviewer Name:	Ted Barton
Reviewer Signature:	Ted Barton

Cannabinoid Potency and Profile

Cannabinoid	Result (%)	Result (mg/g)	mg / bottle
CBDV	0.02%	0.24	6.72
CBDVA	N/D	N/D	N/D
THCV	N/D	N/D	N/D
CBD	3.77%	37.74	1056.72
CBG	0.08%	0.82	22.96
CBDA	N/D	N/D	N/D
CBGA	N/D	N/D	N/D
CBN	0.18%	1.79	50.12
THCD9	0.01%	0.09	2.52
THCD8	0.03%	0.30	8.40
CBC	0.17%	1.72	48.16
CBNA	0.09%	0.93	26.04
THCA	N/D	N/D	N/D
CBCA	N/D	N/D	N/D
Totals	**4.35%**	**43.63**	**1221.64**

Total THC %	**0.01%**
Total THC mg / bottle	**2.52**

Total CBD %	**3.77%**
Total CBD mg / bottle	**1056.72**



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

ISO 17025 Accredited
A2LA Certificate #: 5756.01
Texas Dept of Ag Account #: TL2020003

Columbia LABORATORIES
A Tentamus Company

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/Metrc ID: .
Laboratory ID: 20-011819-0002 **Sample Date:** 10/28/20 09:47

Summary

Potency:

Analyte	Result (%)
CBD	72.7
CBC	3.45
CBN	3.39
CBG†	1.33
CBDV†	0.540
CBL†	0.265
Δ9-THC	0.211

CBD-Total 72.7%

THC-Total 0.211%

(Reported in percent of total sample)

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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ORELAP#: OR100028
Purchase Order:
Received: 10/30/20 10:50

Customer: Deschutes Labs

Product identity: 1060418-2020-TF-05-DIS-01
Client/Metrc 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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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	

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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

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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

Columbia LABORATORIES
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Purchase Order:
Received: 10/30/20 10:50

DESCHUTESLABS 20-011819
Deschutes Labs

Columbia LABORATORIES
A Tentamus Company

Hemp / Cannabis Usable / Extract
Chain of Custody Record

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

Company: Deschutes Labs
Contact: Drew Van Roekel
Street: 2020 NW Industrial Park Rd
City: Prineville State: OR Zip: 97754
☑ Email Results: Drew@Deschuteslabs.com
Ph: (___)_____ ☐ Fx Results: (___)_____
Billing (if different):_____

PO Number:
Project Number:
Project Name:
Custom Reporting:
Report to State - ☐ METRC or ☐ Other:
Turnaround time: ☐ Standard ☐ Rush * ☐ Priority Rush *
**Ask for availability*
Sampled by:

Lab ID	Client Sample Identification	Date	Time	Low potency CBDV	Potency	Pesticides	Residual Solvents	Heavy Metals	Sample Type †	Weight (Units)	Comments/Metrc ID
1	1060418-2020-KLER-53-2ISO-01	10/28/20	9:47	✓	✓	✓	✓	✓	~~I~~ C	5g	
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-SM-64-CBD-01~~	~~10/28/20~~	~~9:47~~			✓			C	5g	Testing cancelled per client email 10/30 -PG
		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	☐ Shipped Via: USPS or ☐ Client drop Evidence of cooling: ☐ Yes | ☐ No - Temp (°C): 18.6 Sample in good condition: ☐ Yes | ☐ No ☐ Cash | ☐ Check | ☐ CC | ☐ Net: Prelog storage:

† - Sample Type Codes: Vegitation (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@columbialaboratories.com

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Received: 10/30/20 10:50

Columbia LABORATORIES A Tentamus Company

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? If YES, how many and where? _____	YES	NO	(NA)
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 5178 04

6) Was packing material used?	YES	(NO)	NA

Peanuts Bubble Wrap Foam Paper Other:

7) Was sufficient ice used (if appropriate)? What kind?	YES	(NO)	NA

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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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	Methylethylketone	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	

Columbia LABORATORIES
A Tentamus Company

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	Methylethylketone	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

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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

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	Methylethylketone	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
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A Tentamus Company

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

Columbia LABORATORIES
A Tentamus Company

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	
Clofentezine	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	

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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
Clofentezine	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	

Columbia LABORATORIES
A Tentamus Company

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	Quantitaion 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.