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

Report Number: 11/13/2020
Report Date: OR100028
ORELAP#:
Purchase Order: 11/04/20 11:35
Received:

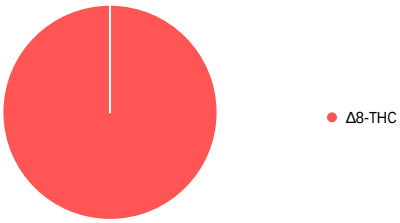
Customer:
Product identity:
Client/Metrc ID:
Laboratory ID:

Sample Date: 11/04/20

Summary

Potency:

Analyte	Result (%)
Δ8-THC†	93.5



CBD-Total	<LOQ
THC-Total	<LOQ

(Reported in percent of total sample)

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
n-Heptane	955	5000	pass

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.

www.columbialaboratories.com
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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 11/13/2020
Report Date: OR100028
ORELAP#:
Purchase Order: 11/04/20 11:35
Received:

Customer:

Product identity:
Client/Metrc ID:
Sample Date:
Laboratory ID:
Relinquished by:
Temp:

Sample Results

Potency **Method** J AOAC 2015 V98-6 (mod) **Batch:** 2009330 **Analyze:** 11/6/20 10:52:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0977	
CBC-A†	< LOQ		0.0977	
CBC-Total†	< LOQ		0.183	
CBD	< LOQ		0.0977	
CBD-A	< LOQ		0.0977	
CBD-Total	< LOQ		0.183	
CBDV†	< LOQ		0.0977	
CBDV-A†	< LOQ		0.0977	
CBDV-Total†	< LOQ		0.182	
CBG†	< LOQ		0.0977	
CBG-A†	< LOQ		0.0977	
CBG-Total	< LOQ		0.182	
CBL†	< LOQ		0.0977	
CBN	< LOQ		0.0977	
Δ8-THC†	93.5		0.977	
Δ9-THC	< LOQ		0.0977	
THC-A	< LOQ		0.0977	
THC-Total	< LOQ		0.183	
THCV†	< LOQ		0.0977	
THCV-A†	< LOQ		0.0977	
THCV-Total†	< LOQ		0.182	
Total Cannabinoids†	93.5			

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2009234	11/07/20	AOAC 2014.05 (RAPID)	X,I
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2009234	11/07/20	AOAC 2014.05 (RAPID)	X,I

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 333-007-0390 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 11/13/2020
Report Date: OR100028
ORELAP#:
Purchase Order: 11/04/20 11:35
Received:

Solvents **Method** EPA5021A **Units** µg/g **Batch** 2009321 **Analyze** 11/09/20 09:51 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	955	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	

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 11/13/2020
Report Date: OR100028
ORELAP#:
Purchase Order: 11/04/20 11:35
Received:

Pesticides

Method AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2009388 **Analyze** 11/10/20 03:04 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	0.0504	2009423	11/11/20	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.0504	2009423	11/11/20	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.0504	2009423	11/11/20	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.0252	2009423	11/11/20	AOAC 2013.06 (mod.)	X

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

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

cfu/g = Colony forming units per gram
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

I: Insufficient sample received to meet method requirements.
X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager

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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 11/13/2020
Report Date: OR100028
ORELAP#:
Purchase Order: 11/04/20 11:35
Received:

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**

20012013

Company: [redacted]
Contact: [redacted]
Street: [redacted]
City: [redacted] State: OR Zip: 97720
☐ Email Results: [redacted]
Ph: (702) 767-5298 ☐ Fax Results: (___)
Billing (if different):

PO Number:
Project Number:
Project Name: D8
Custom Reporting:
Report to State - ☐ METRC or ☐ Other:
Turnaround time: ☐ Standard ☐ Rush * ☐ Priority Rush *
Check for availability
Sampled by:

	Lab ID	Client Sample Identification	Date	Time	Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: *E.Coli* and Total Ccliform	Heavy Metals	Mycotoxins	Other:	Sample Type †	Weight (Units)	Comments/Metrc ID
	1	813-164-1	11/4/20		✔		✔	✔			✔		✔					All 4 Submissions are High Delta-8 Samples
	2	813-166-1	11/4/20		✔		✔	✔			✔		✔					
*	4	813-168-1	11/4/20		✔		✔	✔			✔		✔					
3	3	813-170-1	11/4/20		✔		✔	✔			✔		✔					

Relinquished By:	Date	Time	Received By:	Date	Time
Mark Hesiak	11/4/2020	10:30		11.4	1135

Lab Use Only:
☐ Shipped Via: _____ or ☐ Client drop
Evidence of cooling: ☐ Yes | ☐ No - Temp (°C): 19.6
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

*did not rec sample - BM 11/4/20

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

Page 1 of 1
www.columbialaboratories.com

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 20-012013/D04.R00
Report Date: 11/13/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/04/20 11:35

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: 20-012013 Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 11-4 Time: 1135

Received By (Initials): [illegible]

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): 771928400976

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) 19.6 °C

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

Explain any discrepancies: No COC emailed COC. [illegible]

Page 2 of 2

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 20-012013/D04.R00
Report Date: 11/13/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/04/20 11:35

Laboratory Quality Control Results

Residual Solvents — **Batch ID:** 2009321

Method Blank					Laboratory Control Sample							
Analyte	Result		LOQ	Notes	Result	Spike	Units	% Rec	Limits			Notes
Propane	ND	<	200		620	595	µg/g	104.2	70	-	130	
Isobutane	ND	<	200		832	761	µg/g	109.3	70	-	130	
Butane	ND	<	200		846	761	µg/g	111.2	70	-	130	
2,2-Dimethylpropane	ND	<	200		1030	955	µg/g	107.9	70	-	130	
Methanol	ND	<	200		1730	1610	µg/g	107.5	70	-	130	
Ethylene Oxide	ND	<	30		61.1	58.3	µg/g	104.8	70	-	130	
2-Methylbutane	ND	<	200		1710	1600	µg/g	106.9	70	-	130	
Pentane	ND	<	200		1710	1610	µg/g	106.2	70	-	130	
Ethanol	ND	<	200		1670	1610	µg/g	103.7	70	-	130	
Ethyl Ether	ND	<	200		1670	1610	µg/g	103.7	70	-	130	
2,2-Dimethylbutane	ND	<	30		167	168	µg/g	99.4	70	-	130	
Acetone	ND	<	200		1650	1610	µg/g	102.5	70	-	130	
2-Propanol	ND	<	200		1650	1600	µg/g	103.1	70	-	130	
Ethyl Formate	ND	<	500		1560	1710	µg/g	91.2	70	-	130	
Acetonitrile	ND	<	100		503	486	µg/g	103.5	70	-	130	
Methyl Acetate	ND	<	500		1650	1610	µg/g	102.5	70	-	130	
2,3-Dimethylbutane	ND	<	30		174	162	µg/g	107.4	70	-	130	
Dichloromethane	ND	<	200		517	490	µg/g	105.5	70	-	130	
2-Methylpentane	ND	<	30		164	164	µg/g	100.0	70	-	130	
MTBE	ND	<	500		1620	1620	µg/g	100.0	70	-	130	
3-Methylpentane	ND	<	30		171	166	µg/g	103.0	70	-	130	
Hexane	ND	<	30		170	167	µg/g	101.8	70	-	130	
1-Propanol	ND	<	500		1690	1600	µg/g	105.6	70	-	130	
Methylethylketone	ND	<	500		1670	1610	µg/g	103.7	70	-	130	
Ethyl acetate	ND	<	200		1690	1610	µg/g	105.0	70	-	130	
2-Butanol	ND	<	200		1660	1610	µg/g	103.1	70	-	130	
Tetrahydrofuran	ND	<	100		501	484	µg/g	103.5	70	-	130	
Cyclohexane	ND	<	200		1680	1610	µg/g	104.3	70	-	130	
2-methyl-1-propanol	ND	<	500		1650	1610	µg/g	102.5	70	-	130	
Benzene	ND	<	1		24.3	24.5	µg/g	99.2	70	-	130	
Isopropyl Acetate	ND	<	200		1690	1620	µg/g	104.3	70	-	130	
Heptane	ND	<	200		1780	1610	µg/g	110.6	70	-	130	
1-Butanol	ND	<	500		1660	1600	µg/g	103.8	70	-	130	
Propyl Acetate	ND	<	500		1670	1620	µg/g	103.1	70	-	130	
1,4-Dioxane	ND	<	100		505	484	µg/g	104.3	70	-	130	
2-Ethoxyethanol	ND	<	30		164	186	µg/g	88.2	70	-	130	
Methylisobutylketone	ND	<	500		1680	1610	µg/g	104.3	70	-	130	
3-Methyl-1-butanol	ND	<	500		1680	1610	µg/g	104.3	70	-	130	
Ethylene Glycol	ND	<	200		452	509	µg/g	88.8	70	-	130	
Toluene	ND	<	200		508	492	µg/g	103.3	70	-	130	
Isobutyl Acetate	ND	<	500		1690	1610	µg/g	105.0	70	-	130	
1-Pentanol	ND	<	500		1720	1620	µg/g	106.2	70	-	130	
Butyl Acetate	ND	<	500		1680	1610	µg/g	104.3	70	-	130	
Ethylbenzene	ND	<	200		1000	971	µg/g	103.0	70	-	130	
m,p-Xylene	ND	<	200		974	975	µg/g	99.9	70	-	130	
o-Xylene	ND	<	200		982	966	µg/g	101.7	70	-	130	
Cumene	ND	<	30		165	167	µg/g	98.8	70	-	130	
Anisole	ND	<	500		1710	1610	µg/g	106.2	70	-	130	
DMSO	ND	<	500		1850	1650	µg/g	112.1	70	-	130	
1,2-dimethoxyethane	ND	<	50		168	170	µg/g	98.8	70	-	130	
Triethylamine	ND	<	500		1560	1610	µg/g	96.9	70	-	130	
N,N-dimethylformamide	ND	<	150		493	490	µg/g	100.6	70	-	130	
N,N-dimethylacetamide	ND	<	150		548	485	µg/g	113.0	70	-	130	
Pyridine	ND	<	50		172	167	µg/g	103.0	70	-	130	

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

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

Report Number: 20-012013/D04.R00
Report Date: 11/13/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/04/20 11:35

QC - Sample Duplicate **Sample ID: 20-011950-0001**

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

Abbreviations

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

Units of Measure:

µg/g- Microgram per gram or ppm

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 20-012013/D04.R00
Report Date: 11/13/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/04/20 11:35

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: 2009330**

Laboratory Control Sample

Analyte	Result		Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.198		0.2	%	99.0	85.0 - 115	Acceptable	
CBDV	0.201		0.2	%	101	85.0 - 115	Acceptable	
CBD-A	0.205		0.2	%	102	85.0 - 115	Acceptable	
CBG-A	0.198		0.2	%	99.2	85.0 - 115	Acceptable	
CBG	0.201		0.2	%	101	85.0 - 115	Acceptable	
CBD	0.206		0.2	%	103	85.0 - 115	Acceptable	
THCV	0.200		0.2	%	100	85.0 - 115	Acceptable	
THCVA	0.190		0.2	%	95.1	85.0 - 115	Acceptable	
CBN	0.215		0.2	%	108	85.0 - 115	Acceptable	
THC	0.198		0.2	%	98.9	85.0 - 115	Acceptable	
D8THC	0.196		0.2	%	98.2	85.0 - 115	Acceptable	
CBL	0.190		0.2	%	95.1	85.0 - 115	Acceptable	
CBC	0.201		0.2	%	100	85.0 - 115	Acceptable	
THCA	0.199		0.2	%	99.7	85.0 - 115	Acceptable	
CBCA	0.193		0.2	%	96.4	85.0 - 115	Acceptable	

Method Blank

Analyte	Result		LOQ	Units		Limits	Evaluation	Notes
CBDV-A	<LOQ		0.1	%		< 0.1	Acceptable	
CBDV	<LOQ		0.1	%		< 0.1	Acceptable	
CBD-A	<LOQ		0.1	%		< 0.1	Acceptable	
CBG-A	<LOQ		0.1	%		< 0.1	Acceptable	
CBG	<LOQ		0.1	%		< 0.1	Acceptable	
CBD	<LOQ		0.1	%		< 0.1	Acceptable	
THCV	<LOQ		0.1	%		< 0.1	Acceptable	
THCVA	<LOQ		0.1	%		< 0.1	Acceptable	
CBN	<LOQ		0.1	%		< 0.1	Acceptable	
THC	<LOQ		0.1	%		< 0.1	Acceptable	
D8THC	<LOQ		0.1	%		< 0.1	Acceptable	
CBL	<LOQ		0.1	%		< 0.1	Acceptable	
CBC	<LOQ		0.1	%		< 0.1	Acceptable	
THCA	<LOQ		0.1	%		< 0.1	Acceptable	
CBCA	<LOQ		0.1	%		< 0.1	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

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

Report Number: 20-012013/D04.R00
Report Date: 11/13/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/04/20 11:35

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: 2009330**

Sample Duplicate Sample ID: **20-011950-0002**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG	**96.3**	**96.9**	0.1	%	0.654	< 20	Acceptable	
CBD	**1.31**	**1.36**	0.1	%	4.13	< 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	**0.131**	**0.125**	0.1	%	4.07	< 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	**0.258**	**0.236**	0.1	%	8.60	< 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

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 20-012013/D04.R00
Report Date: 11/13/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/04/20 11:35

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:** 2009388

Matrix Spike/Matrix Spike Duplicate Recoveries | **Sample ID:** 20-011945-0004

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.000	0.904	0.848	1.000	6.3%	< 30	90.4%	84.8%	50 - 150	
Acequinocyl	0.000	4.169	2.421	4.000	53.0%	< 30	104.2%	60.5%	50 - 150	R
Acetamiprid	0.000	0.357	0.347	0.400	2.8%	< 30	89.3%	86.8%	50 - 150	
Aldicarb	0.000	0.788	0.742	0.800	6.1%	< 30	98.5%	92.7%	50 - 150	
Abamectin	0.000	1.085	1.106	1.000	2.0%	< 30	108.5%	110.6%	50 - 150	
Azoxystrobin	0.000	0.414	0.364	0.400	12.9%	< 30	103.5%	90.9%	50 - 150	
Bifenazate	0.000	0.332	0.341	0.400	2.8%	< 30	82.9%	85.2%	50 - 150	
Bifenthrin	0.000	0.821	0.687	0.400	17.7%	< 30	205.3%	171.8%	50 - 150	Q1
Boscalid	0.000	0.775	0.819	0.800	5.5%	< 30	96.9%	102.3%	50 - 150	
Carbaryl	0.000	0.413	0.387	0.400	6.4%	< 30	103.2%	96.8%	50 - 150	
Carbofuran	0.000	0.379	0.368	0.400	2.9%	< 30	94.8%	92.1%	50 - 150	
Chlorantraniliprol	0.000	0.339	0.331	0.400	2.3%	< 30	84.7%	82.8%	50 - 150	
Chlorfenapyr	0.000	2.234	1.917	2.000	15.3%	< 30	111.7%	95.8%	50 - 150	
Chlorpyrifos	0.000	0.479	0.484	0.400	1.0%	< 30	119.8%	121.0%	50 - 150	
Clofentezine	0.000	0.437	0.408	0.400	6.8%	< 30	109.2%	102.1%	50 - 150	
Cyfluthrin	0.000	3.184	2.395	2.000	28.3%	< 30	159.2%	119.7%	30 - 150	Q1
Cypermethrin	0.000	1.908	1.636	2.000	15.4%	< 30	95.4%	81.8%	50 - 150	
Daminozide	0.000	1.826	1.761	2.000	3.6%	< 30	91.3%	88.1%	30 - 150	
Diazinon	0.000	0.366	0.367	0.400	0.2%	< 30	91.6%	91.8%	50 - 150	
Dichlorvos	0.000	1.838	1.846	2.000	0.4%	< 30	91.9%	92.3%	50 - 150	
Dimethoat	0.000	0.358	0.340	0.400	5.2%	< 30	89.4%	84.9%	50 - 150	
Ethoprophos	0.000	0.279	0.258	0.400	7.9%	< 30	69.8%	64.5%	50 - 150	
Etofenprox	0.000	0.880	0.749	0.800	16.1%	< 30	110.0%	93.7%	50 - 150	
Etoxazol	0.000	0.373	0.367	0.400	1.7%	< 30	93.3%	91.8%	50 - 150	
Fenoxycarb	0.000	0.367	0.357	0.400	2.8%	< 30	91.8%	89.3%	50 - 150	
Fenpyroximat	0.000	0.742	0.679	0.800	8.9%	< 30	92.8%	84.9%	50 - 150	
Fipronil	0.000	0.984	0.988	0.800	0.4%	< 30	123.1%	123.5%	50 - 150	
Flonicamid	0.000	0.925	0.844	1.000	9.2%	< 30	92.5%	84.4%	50 - 150	
Fludioxonil	0.000	0.796	0.783	0.800	1.6%	< 30	99.4%	97.8%	50 - 150	
Hexythiazox	0.000	1.651	1.538	1.000	7.1%	< 30	165.1%	153.8%	50 - 150	Q1
Imazalil	0.000	0.288	0.301	0.400	4.4%	< 30	72.0%	75.3%	50 - 150	
Imidacloprid	0.000	0.719	0.688	0.800	4.4%	< 30	89.8%	85.9%	50 - 150	
Kresoxim-Methyl	0.000	0.697	0.708	0.800	1.5%	< 30	87.1%	88.4%	50 - 150	
Malathion	0.000	0.396	0.448	0.400	12.2%	< 30	99.0%	111.9%	50 - 150	
Metalaxyl	0.000	0.352	0.362	0.400	2.8%	< 30	88.1%	90.6%	50 - 150	
Methiocarb	0.000	0.343	0.342	0.400	0.5%	< 30	85.8%	85.4%	50 - 150	
Methomyl	0.000	0.753	0.739	0.800	1.9%	< 30	94.2%	92.4%	50 - 150	
MGK 264	0.000	0.377	0.349	0.400	7.9%	< 30	94.3%	87.2%	50 - 150	
Myclobutanil	0.000	0.361	0.303	0.400	17.5%	< 30	90.2%	75.7%	50 - 150	
Naled	0.000	1.039	1.038	1.000	0.1%	< 30	103.9%	103.8%	50 - 150	
Oxamyl	0.000	1.696	1.746	2.000	2.9%	< 30	84.8%	87.3%	50 - 150	
Paclobutrazol	0.000	0.703	0.695	0.800	1.1%	< 30	87.8%	86.9%	50 - 150	
Parathion Methyl	0.000	0.688	0.774	0.800	11.7%	< 30	86.0%	96.7%	30 - 150	
Permethrin	0.000	0.451	0.376	0.400	18.2%	< 30	112.7%	93.9%	50 - 150	
Phosmet	0.000	0.384	0.384	0.400	0.1%	< 30	95.9%	96.0%	50 - 150	
Piperonyl butoxide	0.000	2.158	2.138	2.000	0.9%	< 30	107.9%	106.9%	50 - 150	
Prallethrin	0.000	0.518	0.523	0.400	1.0%	< 30	129.5%	130.9%	50 - 150	
Propiconazole	0.000	0.800	0.780	0.800	2.5%	< 30	100.1%	97.5%	50 - 150	
Propoxur	0.000	0.343	0.329	0.400	4.1%	< 30	85.8%	82.3%	50 - 150	
Pyrethrins	0.000	0.591	0.536	0.413	9.8%	< 30	143.0%	129.7%	50 - 150	
Pyridaben	0.000	0.285	0.274	0.400	3.9%	< 30	71.2%	68.5%	50 - 150	
Spinosad	0.000	0.318	0.325	0.388	2.0%	< 30	82.0%	83.6%	50 - 150	
Spiromesifen	0.000	0.318	0.314	0.400	1.3%	< 30	79.5%	78.5%	50 - 150	
Spirotetramat	0.000	0.322	0.328	0.400	1.9%	< 30	80.4%	81.9%	50 - 150	
Spiroxamine	0.000	0.664	0.692	0.800	4.2%	< 30	83.0%	86.5%	50 - 150	
Tebuconazol	0.000	0.773	0.775	0.800	0.3%	< 30	96.6%	96.9%	50 - 150	
Thiacloprid	0.000	0.339	0.333	0.400	2.1%	< 30	84.9%	83.1%	50 - 150	
Thiamethoxam	0.000	0.372	0.374	0.400	0.6%	< 30	93.0%	93.5%	50 - 150	
Trifloxystrobin	0.000	0.406	0.401	0.400	1.4%	< 30	101.6%	100.2%	50 - 150	

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 20-012013/D04.R00
Report Date: 11/13/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/04/20 11:35

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: 2009388

Method Blank				Laboratory Control Sample				
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	0.000	< 0.200		0.848	1.000	84.8	72.4 - 126	
Acequinocyl	0.151	< 1.000		3.845	4.000	96.1	79.8 - 122	
Acetamiprid	0.019	< 0.100		0.370	0.400	92.6	84.3 - 119	
Aldicarb	0.025	< 0.200		0.771	0.800	96.4	82.9 - 120	
Abamectin	0.000	< 0.288		0.769	1.000	*76.9*	79.6 - 124	Q6
Azoxystrobin	0.019	< 0.100		0.308	0.400	*77.0*	79.4 - 127	Q6
Bifenazate	0.013	< 0.100		0.359	0.400	89.9	81.6 - 124	
Bifenthrin	0.000	< 0.100		0.365	0.400	91.2	71.5 - 133	
Boscalid	0.031	< 0.100		0.853	0.800	106.7	74.0 - 131	
Carbaryl	0.009	< 0.100		0.375	0.400	93.8	82.1 - 121	
Carbofuran	0.007	< 0.100		0.366	0.400	91.4	85.1 - 125	
Chlorantraniliprol	0.014	< 0.100		0.376	0.400	94.0	70.6 - 131	
Chlorfenapyr	0.000	< 1.000		2.621	2.000	131.0	71.0 - 132	
Chlorpyrifos	0.022	< 0.100		0.423	0.400	105.9	72.3 - 134	
Clofentezine	0.024	< 0.100		0.350	0.400	87.4	80.1 - 117	
Cyfluthrin	0.177	< 1.000		1.828	2.000	91.4	71.8 - 133	
Cypermethrin	0.075	< 1.000		1.822	2.000	91.1	83.1 - 126	
Daminozide	0.088	< 1.000		1.785	2.000	89.3	74.6 - 124	
Diazinon	0.014	< 0.100		0.367	0.400	91.8	78.9 - 126	
Dichlorvos	0.077	< 0.500		1.797	2.000	89.9	76.1 - 124	
Dimethoat	0.018	< 0.100		0.358	0.400	89.5	82.8 - 119	
Ethoprophos	0.018	< 0.100		0.407	0.400	101.6	69.5 - 129	
Etofenprox	0.033	< 0.100		0.759	0.800	94.9	85.2 - 128	
Etoxazol	0.006	< 0.100		0.358	0.400	89.6	79.7 - 126	
Fenoxycarb	0.028	< 0.100		0.370	0.400	92.5	84.1 - 122	
Fenpyroximat	0.007	< 0.100		0.754	0.800	94.3	82.4 - 126	
Fipronil	0.011	< 0.100		0.709	0.800	88.6	80.6 - 125	
Flonicamid	0.077	< 0.400		0.880	1.000	88.0	80.9 - 119	
Fludioxonil	0.000	< 0.100		0.782	0.800	97.7	73.0 - 136	
Hexythiazox	0.026	< 0.400		0.944	1.000	94.4	82.5 - 125	
Imazalil	0.012	< 0.100		0.397	0.400	99.4	81.4 - 128	
Imidacloprid	0.055	< 0.200		0.685	0.800	85.6	76.9 - 125	
Kresoxim-Methyl	0.000	< 0.100		0.730	0.800	91.2	82.6 - 124	
Malathion	0.015	< 0.100		0.377	0.400	94.2	74.1 - 130	
Metalaxyl	0.030	< 0.100		0.353	0.400	88.2	79.7 - 124	
Methiocarb	0.013	< 0.100		0.356	0.400	88.9	81.0 - 123	
Methomyl	0.000	< 0.200		0.732	0.800	91.5	79.4 - 118	
MGK 264	0.000	< 0.100		0.355	0.400	88.6	77.2 - 128	
Myclobutanil	0.015	< 0.100		0.336	0.400	83.9	80.6 - 123	
Naled	0.000	< 0.200		0.957	1.000	95.7	80.3 - 126	
Oxamyl	0.000	< 0.400		1.704	2.000	85.2	80.1 - 117	
Paclobutrazol	0.000	< 0.200		0.704	0.800	88.0	81.6 - 126	
Parathion Methyl	0.180	< 0.200		0.821	0.800	102.7	72.5 - 135	
Permethrin	0.019	< 0.100		0.352	0.400	88.1	75.0 - 139	
Phosmet	0.000	< 0.100		0.374	0.400	93.5	82.0 - 122	
Piperonyl butoxide	0.085	< 1.000		1.939	2.000	97.0	81.3 - 137	
Prallethrin	0.020	< 0.200		0.390	0.400	97.4	81.3 - 127	
Propiconazole	0.034	< 0.200		0.754	0.800	94.2	84.7 - 121	
Propoxur	0.018	< 0.100		0.340	0.400	85.0	84.2 - 121	
Pyrethrins	0.020	< 0.500		0.544	0.413	131.7	76.1 - 141	
Pyridaben	0.003	< 0.100		0.372	0.400	92.9	79.2 - 147	
Spinosad	0.000	< 0.100		0.354	0.388	91.2	88.4 - 127	
Spiromesifen	0.000	< 0.100		0.341	0.400	85.1	79.9 - 127	
Spirotetramat	0.012	< 0.100		0.360	0.400	90.1	81.1 - 121	
Spiroxamine	0.045	< 0.100		0.725	0.800	90.7	78.4 - 133	
Tebuconazol	0.022	< 0.200		0.711	0.800	88.9	83.1 - 122	
Thiacloprid	0.000	< 0.100		0.349	0.400	87.3	84.3 - 120	
Thiamethoxam	0.000	< 0.100		0.375	0.400	93.7	80.1 - 121	
Trifloxystrobin	0.011	< 0.100		0.379	0.400	94.8	81.4 - 125	

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

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

Report Number: 20-012013/D04.R00
Report Date: 11/13/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/04/20 11:35

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.

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

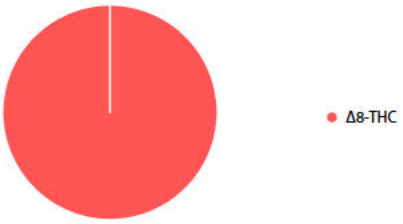
Report Number: 20-013046/D06.R00
Report Date: 12/07/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/30/20 09:42

Customer:
Product identity: 813-180-1
Client/Metrc ID: .
Laboratory ID: 20-013046-0002 **Sample Date:** 11/25/20

Summary

Potency:

Analyte	Result (%)
Δ8-THC†	91.9



CBD-Total	<LOQ
THC-Total	<LOQ

(Reported in percent of total sample)

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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 20-013046/D06.R00
Report Date: 12/07/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/30/20 09:42

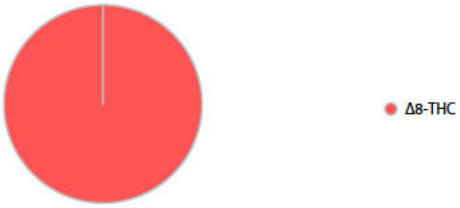
Customer:

Product identity: 813-180-1
Client/Metrc ID: .
Sample Date: 11/25/20
Laboratory ID: 20-013046-0002
Relinquished by: FEDEX
Temp: 15.1 °C

Sample Results

Potency **Method** J AOAC 2015 V98-6 (mod) **Batch:** 2010020 **Analyze:** 12/1/20 11:45:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0910	
CBC-A†	< LOQ		0.0910	
CBC-Total†	< LOQ		0.171	
CBD	< LOQ		0.0910	
CBD-A	< LOQ		0.0910	
CBD-Total	< LOQ		0.171	
CBDV†	< LOQ		0.0910	
CBDV-A†	< LOQ		0.0910	
CBDV-Total†	< LOQ		0.170	
CBG†	< LOQ		0.0910	
CBG-A†	< LOQ		0.0910	
CBG-Total	< LOQ		0.170	
CBL†	< LOQ		0.0910	
CBN	< LOQ		0.0910	
Δ8-THC†	91.9		0.910	
Δ9-THC	< LOQ		0.0910	
THC-A	< LOQ		0.0910	
THC-Total	< LOQ		0.171	
THCV†	< LOQ		0.0910	
THCV-A†	< LOQ		0.0910	
THCV-Total†	< LOQ		0.170	
Total Cannabinoids†	91.9			



Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2009940	12/02/20	AOAC 2014.05 (RAPID)	X, I
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2009940	12/02/20	AOAC 2014.05 (RAPID)	X, I

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 333-007-0390 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 20-013046/D06.R00
Report Date: 12/07/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/30/20 09:42

Solvents **Method** EPA5021A **Units** µg/g **Batch** 2009986 **Analyze** 12/01/20 03:17 PM

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-Dimethy butane	< LOQ		30.0			2,2-Dimethylpropane	< LOQ		200		
2,3-Dimethy butane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		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	
Isopropy benzene	< 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	217	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	

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 20-013046/D06.R00
Report Date: 12/07/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/30/20 09:42

Pesticides **Method** AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2010053 **Analyze** 12/03/20 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							

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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

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

cfu/g = Colony forming units per gram
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

I: Insufficient sample received to meet method requirements.
X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager

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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	20-013046/D06.R00
Report Date:	12/07/2020
ORELAP#:	OR100028
Purchase Order:	
Received:	11/30/20 09:42

Columbia LABORATORIES
A Tentamus Company

20-013046

Hemp / Cannabis Usable / Extract
Chain of Custody Record

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

PO Number: _____
Project Number: _____
Project Name: D8
Custom Reporting: _____
Report to State - ☐ METRC or ☐ Other: _____
Turnaround time: ☐ Standard ☐ Rush * ☐ Priority Rush *
*Check for availability
Sampled by: _____

Lab ID	Client Sample Identification	Date	Time	Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: *E. Coli* and Total Coliform	Heavy Metals	Mycotoxins	Other:	Sample Type †	Weight (Units)	Comments/Metrc ID
1	813-178-1	11/25/20		✔		✔	✔			✔							
2	813-180-1	11/25/20		✔		✔	✔			✔							
3	813-186-1	11/25/20		✔		✔	✔			✔							
4	813-188-1	11/25/20		✔		✔	✔			✔							
5	813-190-1	11/25/20		✔		✔	✔			✔							

Relinquished By:	Date	Time	Received By:	Date	Time
Mark Hesiak	11/25/20	10:00 am	JB	11/30	9:42

Lab Use Only:
☑ Shipped Via: Fedex or ☐ Client drop
Evidence of cooling: ☐ Yes | ☑ No - Temp (°C): 15.1
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

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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

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: 20-013046 Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 11/30 Time: 942

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): 7721 8743 9324

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) 15.1 °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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

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

Report Number: 20-013046/D06.R00
Report Date: 12/07/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/30/20 09:42

Laboratory Quality Control Results

Residual Solvents — **Batch ID:** 2009986

Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**		**Limits**		**Notes**
Propane	ND	<	200		5	595	µg/g	8 2	0		30	
Isobutane	ND	<	200		4	6	µg/g	93 8	0		30	
Butane	ND	<	200		0	6	µg/g	93 3	0		30	
2 2 Dimeth Ipropane	ND	<	200		8	955	µg/g	9 8	0		30	
Methanol	ND	<	200		340	6 0	µg/g	83 2	0		30	
Eth lene Oxide	ND	<	30		53	58 3	µg/g	90 9	0		30	
2 Methy butane	ND	<	200		350	600	µg/g	84 4	0		30	
Pentane	ND	<	200		340	6 0	µg/g	83 2	0		30	
Ethanol	ND	<	200		380	6 0	µg/g	85	0		30	
Eth l Ether	ND	<	200		380	6 0	µg/g	85	0		30	
2 2 Dimeth lbutane	ND	<	30		4	68	µg/g	83 9	0		30	
Acetone	ND	<	200		380	6 0	µg/g	85	0		30	
2 Propanol	ND	<	200		380	600	µg/g	86 3	0		30	
Eth l Formate	ND	<	500		4 0	0	µg/g	82 5	0		30	
Acetonitrile	ND	<	00		406	486	µg/g	83 5	0		30	
Methyl Acetate	ND	<	500		450	6 0	µg/g	90	0		30	
2 3 Dimeth lbutane	ND	<	30		39	62	µg/g	85 8	0		30	
Dichloromethane	ND	<	200		423	490	µg/g	86 3	0		30	
2 Methylpentane	ND	<	30		42	64	µg/g	86 6	0		30	
M BE	ND	<	500		450	620	µg/g	89 5	0		30	
3 Methylpentane	ND	<	30		6	66	µg/g	8 9	0		30	
Hexane	ND	<	30		6	6	µg/g	8 4	0		30	
Propanol	ND	<	500		460	600	µg/g	9 3	0		30	
Methyleth lketone	ND	<	500		4 0	6 0	µg/g	88 8	0		30	
Eth l acetate	ND	<	200		380	6 0	µg/g	85	0		30	
2 Butanol	ND	<	200		380	6 0	µg/g	85	0		30	
etrah drofuran	ND	<	00		42	484	µg/g	8 0	0		30	
C clohexane	ND	<	200		390	6 0	µg/g	86 3	0		30	
2 meth l propanol	ND	<	500		4 0	6 0	µg/g	8 6	0		30	
Benzene	ND	<			2	24 5	µg/g	85	0		30	
Isopropyl Acetate	ND	<	200		3 0	620	µg/g	84 6	0		30	
Heptane	ND	<	200		420	6 0	µg/g	88 2	0		30	
Butanol	ND	<	500		460	600	µg/g	9 3	0		30	
Propyl Acetate	ND	<	500		4 0	620	µg/g	88 3	0		30	
4 Dioxane	ND	<	00		4 2	484	µg/g	85	0		30	
2 Ethoxyethanol	ND	<	30		52	86	µg/g	8	0		30	
Methylisobutylketone	ND	<	500		440	6 0	µg/g	89 4	0		30	
3 Methyl butanol	ND	<	500		440	6 0	µg/g	89 4	0		30	
Eth lene Glycol	ND	<	200		404	509	µg/g	9 4	0		30	
oluene	ND	<	200		420	492	µg/g	85 4	0		30	
Isobutyl Acetate	ND	<	500		420	6 0	µg/g	88 2	0		30	
Pentanol	ND	<	500		390	620	µg/g	85 8	0		30	
Butyl Acetate	ND	<	500		450	6 0	µg/g	90	0		30	
Eth lbenzene	ND	<	200		838	9	µg/g	86 3	0		30	
m p X lene	ND	<	200		835	9 5	µg/g	85 6	0		30	
o X lene	ND	<	200		83	966	µg/g	86 6	0		30	
Cumene	ND	<	30		39	6	µg/g	83 2	0		30	
Anisole	ND	<	500		400	6 0	µg/g	8 0	0		30	
DMSO	ND	<	500		4 0	650	µg/g	85 5	0		30	
2 dimethoxyethane	ND	<	50		44	0	µg/g	84	0		30	
rieth lamine	ND	<	500		4 0	6 0	µg/g	8 6	0		30	
N N d methylformamide	ND	<	50		43	490	µg/g	89 2	0		30	
N N d methylacetamide	ND	<	50		426	485	µg/g	8 8	0		30	
Pyridine	ND	<	50		45	6	µg/g	86 8	0		30	

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

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

Report Number: 20-013046/D06.R00
Report Date: 12/07/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/30/20 09:42

QC Sample Duplicate **Sample ID: 20 012968 0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0 0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0 0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0 0	< 20	Acceptable	
2 2 Dimeth lpropane	ND	ND	200	µg/g	0 0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0 0	< 20	Acceptable	
Eth lene Oxide	ND	ND	30	µg/g	0 0	< 20	Acceptable	
2 Methylbutane	ND	ND	200	µg/g	0 0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0 0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0 0	< 20	Acceptable	
Eth l Ether	ND	ND	200	µg/g	0 0	< 20	Acceptable	
2 2 Dimeth lbutane	ND	ND	30	µg/g	0 0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0 0	< 20	Acceptable	
2 Propanol	ND	ND	200	µg/g	0 0	< 20	Acceptable	
Eth l Formate	ND	ND	500	µg/g	0 0	< 20	Acceptable	
Acetonitrile	ND	ND	00	µg/g	0 0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0 0	< 20	Acceptable	
2 3 Dimeth lbutane	ND	ND	30	µg/g	0 0	< 20	Acceptable	
Dichloromethane	ND	ND	200	µg/g	0 0	< 20	Acceptable	
2 Methylpentane	ND	ND	30	µg/g	0 0	< 20	Acceptable	
M BE	ND	ND	500	µg/g	0 0	< 20	Acceptable	
3 Methylpentane	ND	ND	30	µg/g	0 0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0 0	< 20	Acceptable	
Propanol	ND	ND	500	µg/g	0 0	< 20	Acceptable	
Methyleth lketone	ND	ND	500	µg/g	0 0	< 20	Acceptable	
Eth l acetate	ND	ND	200	µg/g	0 0	< 20	Acceptable	
2 Butanol	ND	ND	200	µg/g	0 0	< 20	Acceptable	
etrah drofuran	ND	ND	00	µg/g	0 0	< 20	Acceptable	
C clohexane	ND	ND	200	µg/g	0 0	< 20	Acceptable	
2 meth l propanol	ND	ND	500	µg/g	0 0	< 20	Acceptable	
Benzene	ND	ND		µg/g	0 0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0 0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0 0	< 20	Acceptable	
Butanol	ND	ND	500	µg/g	0 0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0 0	< 20	Acceptable	
4 Dioxane	ND	ND	00	µg/g	0 0	< 20	Acceptable	
2 Ethoxyethanol	ND	ND	30	µg/g	0 0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0 0	< 20	Acceptable	
3 Methyl butanol	ND	ND	500	µg/g	0 0	< 20	Acceptable	
Eth lene Glycol	ND	ND	200	µg/g	0 0	< 20	Acceptable	
oluene	ND	ND	200	µg/g	0 0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0 0	< 20	Acceptable	
Pentanol	ND	ND	500	µg/g	0 0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0 0	< 20	Acceptable	
Eth lbenzene	ND	ND	200	µg/g	0 0	< 20	Acceptable	
m p X lene	ND	ND	200	µg/g	0 0	< 20	Acceptable	
o X lene	ND	ND	200	µg/g	0 0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0 0	< 20	Acceptable	
Anisole	ND	ND	500	µg/g	0 0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0 0	< 20	Acceptable	
2 d methoxyethane	ND	ND	50	µg/g	0 0	< 20	Acceptable	
rieth lamine	ND	ND	500	µg/g	0 0	< 20	Acceptable	
N N d meth lformamide	ND	ND	50	µg/g	0 0	< 20	Acceptable	
N N d meth lacetamide	ND	ND	50	µg/g	0 0	< 20	Acceptable	
P r dine	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

Units of Measure:

µg/g Microgram per gram or ppm

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 20-013046/D06.R00
Report Date: 12/07/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/30/20 09:42

Revision # 0 00 Con rol CFL D06
Revision Da e 05/31/2019 Effec ive Da e 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2010020**

Laboratory Control Sample

Analyte	Result		Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.207		0.2	%	103	85.0 - 115	Acceptable	
CBDV	0.210		0.2	%	105	85.0 - 115	Acceptable	
CBD-A	0.211		0.2	%	105	85.0 - 115	Acceptable	
CBG-A	0.206		0.2	%	103	85.0 - 115	Acceptable	
CBG	0.206		0.2	%	103	85.0 - 115	Acceptable	
CBD	0.208		0.2	%	104	85.0 - 115	Acceptable	
THCV	0.201		0.2	%	100	85.0 - 115	Acceptable	
THCVA	0.190		0.2	%	94.8	85.0 - 115	Acceptable	
CBN	0.210		0.2	%	105	85.0 - 115	Acceptable	
THC	0.199		0.2	%	99.7	85.0 - 115	Acceptable	
D8THC	0.193		0.2	%	96.6	85.0 - 115	Acceptable	
CBL	0.193		0.2	%	96.7	85.0 - 115	Acceptable	
CBC	0.200		0.2	%	100	85.0 - 115	Acceptable	
THCA	0.194		0.2	%	97.0	85.0 - 115	Acceptable	
CBCA	0.195		0.2	%	97.5	85.0 - 115	Acceptable	

Method Blank

Analyte	Result		LOQ	Units		Limits	Evaluation	Notes
CBDV-A	<LOQ		0.1	%		< 0.1	Acceptable	
CBDV	<LOQ		0.1	%		< 0.1	Acceptable	
CBD-A	<LOQ		0.1	%		< 0.1	Acceptable	
CBG-A	<LOQ		0.1	%		< 0.1	Acceptable	
CBG	<LOQ		0.1	%		< 0.1	Acceptable	
CBD	<LOQ		0.1	%		< 0.1	Acceptable	
THCV	<LOQ		0.1	%		< 0.1	Acceptable	
THCVA	<LOQ		0.1	%		< 0.1	Acceptable	
CBN	<LOQ		0.1	%		< 0.1	Acceptable	
THC	<LOQ		0.1	%		< 0.1	Acceptable	
D8THC	<LOQ		0.1	%		< 0.1	Acceptable	
CBL	<LOQ		0.1	%		< 0.1	Acceptable	
CBC	<LOQ		0.1	%		< 0.1	Acceptable	
THCA	<LOQ		0.1	%		< 0.1	Acceptable	
CBCA	<LOQ		0.1	%		< 0.1	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

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

Report Number: 20-013046/D06.R00
Report Date: 12/07/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/30/20 09:42

Revision # 0 00 Con rol CFL D06
Revision Da e 05/31/2019 Effec ive Da e 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6					Batch ID: 2010020			
Sample Duplicate					Sample D **20-013019-0001**			
Analyte	**Result**	**Org. Result**	**LOQ**	**Units**	**RPD**	**Limits**	**Evaluation**	**Notes**
CBDV-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	**0.388**	**0.392**	0.1	%	1.09	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG	**0.753**	**0.762**	0.1	%	1.15	< 20	Acceptable	
CBD	**74.1**	**73.1**	0.1	%	1.42	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBN	**2.35**	**2.33**	0.1	%	0.879	< 20	Acceptable	
THC	**0.201**	**0.202**	0.1	%	0.573	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBL	**0.335**	**0.330**	0.1	%	1.42	< 20	Acceptable	
CBC	**2.74**	**2.72**	0.1	%	0.559	< 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

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 20-013046/D06.R00
Report Date: 12/07/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/30/20 09:42

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:** 2010053

Method Blank				Laboratory Control Sample				
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**	**Notes**
Acephate	0.000	< 0.200		0.867	1.000	86.7	72.4 - 126	
Acequinocyl	0.666	< 1.000		3.509	4.000	87.7	79.8 - 122	
Acetamiprid	0.000	< 0.100		0.411	0.400	102.6	84.3 - 119	
Aldicarb	0.000	< 0.200		0.687	0.800	85.9	82.9 - 120	
Abamectin	0.000	< 0.288		0.991	1.000	99.1	79.6 - 124	
Azoxystrobin	0.000	< 0.100		0.408	0.400	102.0	79.4 - 127	
Bifenazate	0.000	< 0.100		0.413	0.400	103.3	81.6 - 124	
Bifenthrin	0.000	< 0.100		0.357	0.400	89.2	71.5 - 133	
Boscalid	0.000	< 0.100		0.819	0.800	102.4	74.0 - 131	
Carbaryl	0.001	< 0.100		0.400	0.400	99.9	82.1 - 121	
Carbofuran	0.024	< 0.100		0.396	0.400	99.1	85.1 - 125	
Chlorantraniliprol	0.000	< 0.100		0.395	0.400	98.7	70.6 - 131	
Chlorfenapyr	0.000	< 1.000		2.091	2.000	104.6	71.0 - 132	
Chlorpyrifos	0.002	< 0.100		0.431	0.400	107.7	72.3 - 134	
Clofentezine	0.002	< 0.100		0.381	0.400	95.3	80.1 - 117	
Cyfluthrin	0.337	< 1.000		1.786	2.000	89.3	71.8 - 133	
Cypermethrin	0.000	< 1.000		1.893	2.000	94.7	83.1 - 126	
Daminozide	0.000	< 1.000		1.869	2.000	93.5	74.6 - 124	
Diazinon	0.003	< 0.100		0.407	0.400	101.9	78.9 - 126	
Dichlorvos	0.000	< 0.500		1.986	2.000	99.3	76.1 - 124	
Dimethoat	0.003	< 0.100		0.384	0.400	96.1	82.8 - 119	
Ethoprophos	0.005	< 0.100		0.398	0.400	99.4	69.5 - 129	
Etofenprox	0.000	< 0.100		0.735	0.800	91.9	85.2 - 128	
Etoxazol	0.001	< 0.100		0.391	0.400	97.8	79.7 - 126	
Fenoxycarb	0.000	< 0.100		0.384	0.400	95.9	84.1 - 122	
Fenpyroximat	0.013	< 0.100		0.788	0.800	98.5	82.4 - 126	
Fipronil	0.000	< 0.100		0.841	0.800	105.1	80.6 - 125	
Flonicamid	0.047	< 0.400		1.022	1.000	102.2	80.9 - 119	
Fludioxonil	0.000	< 0.100		0.838	0.800	104.8	73.0 - 136	
Hexythiazox	0.000	< 0.400		0.932	1.000	93.2	82.5 - 125	
Imazalil	0.014	< 0.100		0.422	0.400	105.5	81.4 - 128	
Imidacloprid	0.009	< 0.200		0.777	0.800	97.1	76.9 - 125	
Kresoxim-Methyl	0.000	< 0.100		0.744	0.800	92.9	82.6 - 124	
Malathion	0.008	< 0.100		0.401	0.400	100.3	74.1 - 130	
Metalaxyl	0.000	< 0.100		0.401	0.400	100.3	79.7 - 124	
Methiocarb	0.000	< 0.100		0.316	0.400	***79.0***	81.0 - 123	**Q6**
Methomyl	0.000	< 0.200		0.865	0.800	108.1	79.4 - 118	
MGK 264	0.004	< 0.100		0.380	0.400	95.0	77.2 - 128	
Myclobutanil	0.000	< 0.100		0.410	0.400	102.4	80.6 - 123	
Naled	0.000	< 0.200		0.969	1.000	96.9	80.3 - 126	
Oxamyl	0.000	< 0.400		1.816	2.000	90.8	80.1 - 117	
Paclobutrazol	0.000	< 0.200		0.773	0.800	96.6	81.6 - 126	
Parathion Methyl	0.000	< 0.200		0.805	0.800	100.7	72.5 - 135	
Permethrin	0.033	< 0.100		0.358	0.400	89.6	75.0 - 139	
Phosmet	0.000	< 0.100		0.393	0.400	98.3	82.0 - 122	
Piperonyl butoxide	0.013	< 1.000		1.849	2.000	92.5	81.3 - 137	
Prallethrin	0.154	< 0.200		0.324	0.400	***81.1***	81.3 - 127	**Q6**
Propiconazole	0.000	< 0.200		0.802	0.800	100.2	84.7 - 121	
Propoxur	0.002	< 0.100		0.391	0.400	97.6	84.2 - 121	
Pyrethrins	0.096	< 0.500		0.416	0.413	100.7	76.1 - 141	
Pyridaben	0.002	< 0.100		0.488	0.400	122.0	79.2 - 147	
Spinosad	0.000	< 0.100		0.416	0.388	107.2	88.4 - 127	
Spiromesifen	0.000	< 0.100		0.344	0.400	86.0	79.9 - 127	
Spirotetramat	0.000	< 0.100		0.395	0.400	98.7	81.1 - 121	
Spiroxamine	0.010	< 0.100		0.820	0.800	102.4	78.4 - 133	
Tebuconazol	0.001	< 0.200		0.796	0.800	99.5	83.1 - 122	
Thiacloprid	0.000	< 0.100		0.401	0.400	100.2	84.3 - 120	
Thiamethoxam	0.000	< 0.100		0.408	0.400	102.1	80.1 - 121	
Trifloxystrobin	0.003	< 0.100		0.372	0.400	93.0	81.4 - 125	

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 20-013046/D06.R00
Report Date: 12/07/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/30/20 09:42

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:** 2010053

Matrix Spike/Matrix Spike Duplicate Recoveries | **Sample ID: 20-013050-0001**

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.000	0.905	0.879	1.000	2.9%	< 30	90.5%	87.9%	50 - 150	
Acequinocyl	0.059	5.704	6.429	4.000	12.1%	< 30	141.1%	159.3%	50 - 150	Q1
Acetamiprid	0.000	0.414	0.412	0.400	0.3%	< 30	103.4%	103.1%	50 - 150	
Aldicarb	0.000	0.995	0.844	0.800	16.4%	< 30	124.4%	105.5%	50 - 150	
Abamectin	0.000	1.416	1.158	1.000	20.0%	< 30	141.6%	115.8%	50 - 150	
Azoxystrobin	0.000	0.391	0.482	0.400	20.8%	< 30	97.8%	120.4%	50 - 150	
Bifenazate	0.000	0.451	0.438	0.400	2.8%	< 30	112.7%	109.6%	50 - 150	
Bifenthrin	0.000	0.895	0.941	0.400	5.0%	< 30	223.8%	235.2%	50 - 150	Q1
Boscalid	0.000	0.876	0.751	0.800	15.4%	< 30	109.5%	93.8%	50 - 150	
Carbaryl	0.000	0.391	0.369	0.400	5.9%	< 30	97.8%	92.2%	50 - 150	
Carbofuran	0.000	0.375	0.396	0.400	5.3%	< 30	93.9%	99.0%	50 - 150	
Chlorantraniliprol	0.000	0.375	0.358	0.400	4.6%	< 30	93.7%	89.5%	50 - 150	
Chlorfenapyr	0.000	1.939	1.768	2.000	9.2%	< 30	96.9%	88.4%	50 - 150	
Chlorpyrifos	0.000	0.597	0.581	0.400	2.8%	< 30	149.4%	145.3%	50 - 150	
Clofentezine	0.000	0.414	0.397	0.400	4.2%	< 30	103.5%	99.2%	50 - 150	
Cyfluthrin	0.142	4.002	3.481	2.000	14.5%	< 30	193.0%	166.9%	30 - 150	Q1
Cypermethrin	0.000	3.781	3.848	2.000	1.8%	< 30	189.0%	192.4%	50 - 150	Q1
Daminozide	0.000	1.922	1.927	2.000	0.2%	< 30	96.1%	96.3%	30 - 150	
Diazinon	0.003	0.456	0.427	0.400	6.5%	< 30	113.3%	106.1%	50 - 150	
Dichlorvos	0.078	1.982	1.942	2.000	2.1%	< 30	95.2%	93.2%	50 - 150	
Dimethoat	0.000	0.385	0.371	0.400	3.6%	< 30	96.2%	92.8%	50 - 150	
Ethoprophos	0.003	0.422	0.387	0.400	8.7%	< 30	104.8%	96.0%	50 - 150	
Etofenprox	0.098	1.220	1.141	0.800	7.3%	< 30	140.3%	130.4%	50 - 150	
Etoxazol	0.001	0.550	0.549	0.400	0.0%	< 30	137.2%	137.1%	50 - 150	
Fenoxycarb	0.000	0.440	0.421	0.400	4.3%	< 30	109.9%	105.2%	50 - 150	
Fenpyroximat	0.000	1.028	1.024	0.800	0.4%	< 30	128.5%	128.0%	50 - 150	
Fipronil	0.000	1.032	0.952	0.800	8.1%	< 30	129.0%	119.0%	50 - 150	
Flonicamid	0.040	0.993	0.947	1.000	4.9%	< 30	95.3%	90.7%	50 - 150	
Fludioxonil	0.000	1.185	0.745	0.800	45.7%	< 30	148.2%	93.1%	50 - 150	R
Hexythiazox	0.000	2.150	2.230	1.000	3.6%	< 30	215.0%	223.0%	50 - 150	Q1
Imazalil	0.009	0.399	0.398	0.400	0.3%	< 30	97.5%	97.2%	50 - 150	
Imidacloprid	0.053	0.878	0.827	0.800	6.3%	< 30	103.2%	96.8%	50 - 150	
Kresoxim-Methyl	0.000	0.797	0.729	0.800	8.9%	< 30	99.6%	91.1%	50 - 150	
Malathion	0.074	0.533	0.498	0.400	8.0%	< 30	114.8%	106.0%	50 - 150	
Metalaxyl	0.000	0.424	0.423	0.400	0.1%	< 30	105.9%	105.8%	50 - 150	
Methiocarb	0.004	0.390	0.380	0.400	2.5%	< 30	96.5%	94.1%	50 - 150	
Methomyl	0.000	0.912	0.870	0.800	4.7%	< 30	114.0%	108.8%	50 - 150	
MGK 264	0.000	0.386	0.367	0.400	5.1%	< 30	96.5%	91.7%	50 - 150	
Myclobutanil	0.006	0.439	0.433	0.400	1.2%	< 30	108.2%	106.9%	50 - 150	
Naled	0.000	0.954	0.942	1.000	1.2%	< 30	95.4%	94.2%	50 - 150	
Oxamyl	0.000	1.954	1.710	2.000	13.3%	< 30	97.7%	85.5%	50 - 150	
Paclobutrazol	0.000	0.886	0.892	0.800	0.7%	< 30	110.7%	111.5%	50 - 150	
Parathion Methyl	0.000	0.821	0.679	0.800	19.0%	< 30	102.7%	84.9%	30 - 150	
Permethrin	0.000	0.551	0.463	0.400	17.5%	< 30	137.8%	115.7%	50 - 150	
Phosmet	0.000	0.396	0.372	0.400	6.1%	< 30	98.9%	93.1%	50 - 150	
Piperonyl butoxide	0.000	2.516	2.314	2.000	8.3%	< 30	125.8%	115.7%	50 - 150	
Prallethrin	0.000	0.768	0.726	0.400	5.6%	< 30	192.0%	181.6%	50 - 150	Q1
Propiconazole	0.000	0.884	0.847	0.800	4.3%	< 30	110.5%	105.8%	50 - 150	
Propoxur	0.017	0.384	0.365	0.400	5.3%	< 30	91.7%	87.0%	50 - 150	
Pyrethrins	0.012	0.496	0.498	0.413	0.4%	< 30	117.2%	117.7%	50 - 150	
Pyridaben	0.002	0.644	0.609	0.400	5.5%	< 30	160.5%	151.8%	50 - 150	Q1
Spinosad	0.000	0.410	0.408	0.388	0.3%	< 30	105.5%	105.3%	50 - 150	
Spiromesifen	0.000	0.713	0.696	0.400	2.4%	< 30	178.2%	174.0%	50 - 150	Q1
Spirotetramat	0.000	0.403	0.383	0.400	5.0%	< 30	100.8%	95.8%	50 - 150	
Spiroxamine	0.009	0.741	0.736	0.800	0.6%	< 30	91.5%	90.9%	50 - 150	
Tebuconazol	0.000	0.875	0.841	0.800	3.9%	< 30	109.4%	105.2%	50 - 150	
Thiacloprid	0.001	0.404	0.396	0.400	2.0%	< 30	100.7%	98.7%	50 - 150	
Thiamethoxam	0.000	0.437	0.452	0.400	3.4%	< 30	109.1%	113.0%	50 - 150	
Trifloxystrobin	0.000	0.438	0.442	0.400	0.9%	< 30	109.5%	110.5%	50 - 150	

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

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

Report Number: 20-013046/D06.R00
Report Date: 12/07/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/30/20 09:42

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.

www.columbialaboratories.com
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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430