Columbia LABORATORIES
A Tentamus Company

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

Report Number: 25-004481/D002.R000
Report Date: 05/08/2025
ORELAP#: OR100028
Purchase Order:
Received: 04/29/25 10:08

Customer: Central Oregon Processing
212 NE North St.
Grass Valley Oregon 97029
United States of America (USA)

Product identity: Comp FSD V3 GVL-TST954
Metrc ID: .
Metrc Source ID:
Material: Cannabinoid Extract
Sample Date:
Laboratory ID: 25-004481-0002
Evidence of Cooling: No
Temp: 18.4 °C

Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)[þ] **Batch:** 2503117 **Analyze:** 2025-04-30 18:41:00

Analyte	Result	Units	LOQ	Notes
CBC	0.697	%	0.0723	
CBC-A	< LOQ	%	0.0723	
CBC-Total	0.697	%	0.136	
CBD[⊥]	87.0	%	0.723	
CBD-A[⊥]	< LOQ	%	0.0723	
CBD-Total[⊥]	87.0	%	0.786	
CBDV	0.407	%	0.0723	
CBDV-A	< LOQ	%	0.0723	
CBDV-Total	0.407	%	0.135	
CBE	0.489	%	0.0723	
CBG	0.277	%	0.0723	
CBG-A	< LOQ	%	0.0723	
CBG-Total	0.277	%	0.135	
CBL	0.0799	%	0.0723	
CBL-A	< LOQ	%	0.0723	
CBL-Total	< LOQ	%	0.136	
CBN	0.308	%	0.0723	
CBT	0.544	%	0.0723	
Δ10-THC-9R	< LOQ	%	0.0723	
Δ10-THC-9S	< LOQ	%	0.0723	
Δ10-THC-Total	< LOQ	%	0.145	
Δ8-THC[⊥]	< LOQ	%	0.0723	
Δ8-THCV	< LOQ	%	0.0723	
Δ9-THC[⊥]	0.279	%	0.0723	
Δ9-THC-A[⊥]	< LOQ	%	0.0723	
Δ9-THC-Total[⊥]	0.279	%	0.136	
Δ9-THCP	< LOQ	%	0.0723	
Δ9-THCV	< LOQ	%	0.0723	
Δ9-THCV-A	< LOQ	%	0.0723	
Δ9-THCV-Total	< LOQ	%	0.135	

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 25-004481/D002.R000
Report Date: 05/08/2025
ORELAP#: OR100028
Purchase Order:
Received: 04/29/25 10:08

Potency

Method: J AOAC 2015 V98-6 (mod)[þ] **Batch:** 2503117 **Analyze:** 2025-04-30 18:41:00

Analyte	Result	Units	LOQ	Notes
exo-THC	< LOQ	%	0.0723	
Total Cannabinoids	90.1	%		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2503128	05/04/25	AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2503128	05/04/25	AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2503129	05/05/25	AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2503129	05/05/25	AOAC 2014.05 (RAPID)		

Solvents

Method: Residual Solvents by HS-GC-MS[þ] **Units** µg/g **Batch** 2503193 **Analyze** 05/06/25 10:04 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane ⊥	< LOQ	380	100	pass		2-Butanol ⊥	< LOQ	5000	200	pass	
2-Ethoxyethanol ⊥	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane) ⊥	< LOQ		200		
2-Methylpentane ⊥	< LOQ		30.0			2-Propanol (IPA) ⊥	< LOQ	5000	200	pass	
2,2-Dimethylbutane ⊥	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane) ⊥	< LOQ		200		
2,3-Dimethylbutane ⊥	< LOQ		30.0			3-Methylpentane ⊥	< LOQ		30.0		
Acetone ⊥	< LOQ	5000	200	pass		Acetonitrile ⊥	< LOQ	410	100	pass	
Benzene ⊥	< LOQ	2.00	1.00	pass		Butanes (sum) ⊥	< LOQ	5000	400	pass	
Cyclohexane ⊥	< LOQ	3880	200	pass		Ethanol ⊥	< LOQ		200		
Ethyl acetate ⊥	< LOQ	5000	200	pass		Ethyl benzene	< LOQ		200		
Ethyl ether ⊥	< LOQ	5000	200	pass		Ethylene glycol ⊥	< LOQ	620	200	pass	
Ethylene oxide ⊥	< LOQ	50.0	20.0	pass		Hexanes (sum) ⊥	< LOQ	290	150	pass	
Isopropyl acetate ⊥	< LOQ	5000	200	pass		Isopropylbenzene (Cumene) ⊥	< LOQ	70.0	30.0	pass	
m,p-Xylene ⊥	< LOQ		200			Methanol ⊥	< LOQ	3000	200	pass	
Methylene chloride ⊥	< LOQ	600	60.0	pass		Methylpropane (Isobutane) ⊥	< LOQ		200		
n-Butane ⊥	< LOQ		200			n-Heptane ⊥	334	5000	200	pass	
n-Hexane ⊥	< LOQ		30.0			n-Pentane ⊥	< LOQ		200		
o-Xylene ⊥	< LOQ		200			Pentanes (sum) ⊥	< LOQ	5000	600	pass	
Propane ⊥	< LOQ	5000	200	pass		Tetrahydrofuran ⊥	< LOQ	720	100	pass	
Toluene ⊥	< LOQ	890	100	pass		Total Xylenes ⊥	< LOQ		400		
Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass							

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 25-004481/D002.R000
Report Date: 05/08/2025
ORELAP#: OR100028
Purchase Order:
Received: 04/29/25 10:08

Pesticides

Method: AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2503195 **Analyze** 05/06/25 11:24 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.200	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-ethyl	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin (sum)	< LOQ	1.0	0.500	pass	
Cypermethrin (sum)	< 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	0.100	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	0.100	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	Analyzed	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0978	2503262	05/08/25	AOAC 2013.06 (mod.)þ	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0978	2503262	05/08/25	AOAC 2013.06 (mod.)þ	pass	
Lead	< LOQ	0.500	mg/kg	0.0978	2503262	05/08/25	AOAC 2013.06 (mod.)þ	pass	
Mercury	< LOQ	0.100	mg/kg	0.0489	2503262	05/08/25	AOAC 2013.06 (mod.)þ	pass	

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	25-004481/D002.R000
Report Date:	05/08/2025
ORELAP#:	OR100028
Purchase Order:	
Received:	04/29/25 10:08

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

þ = ISO/IEC 17025:2017 accredited method.

⊥ = TNI accredited analyte.

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

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: 25-004481/D002.R000
Report Date: 05/08/2025
ORELAP#: OR100028
Purchase Order:
Received: 04/29/25 10:08

Columbia LABORATORIES
A Tentamus Company

Hemp & Cannabis Chain of Custody

Central-Oregon-Processing-1745865887

Company Details
Company: Central Oregon Processing
Contact: Bharath Pogula
Street Address: 374 NE Peters Rd
City, State, Zip: Prineville, OR 97754
Email: bharath@gvbbiopharma.com
Contact Phone: 9737225455

Billing Information
Billing Email: bharath@gvbbiopharma.com

Project Details
Turnaround Time: 3 Business Days | Surcharges Apply
Relinquishment | Sampling, Courier & Shipping Options: By Shipping Service (USPS, UPS, Fedex)

Receipt Information
Evidence of Cooling?: No
Sample Condition: Satisfactory
Prelog Storage: Canna Shelves

#	Sample Name	Material	Amount Provided	Additional Test Requests and Sample Comments	Reporting Unit	Testing: H0010 – Potency Cannabis (Basic+Expanded)
1	BSD GVL-TST953	Cannabinoid Extract	25 g	Please retain this sample. After confirming the potency will add the the safety testing.	%	✓
2	Comp FSD V3 GVL-TST954	Cannabinoid Extract	25 g	Please retain this sample. After confirming the potency will add the the safety testing.	%	✓

Relinquished By	Date	Time
Bharath Pogula	04/28/2025	11:44

Received By	Date	Time	Received Temp., °C	IR Therm. CL#
amp	04/29/2025	10:08	18.4	CL-0530

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

Columbia Laboratories
12423 NE WHitaker Way
Portland, OR 97230

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

Page 1 of 1
www.columbialaboratories.com

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 25-004481/D002.R000
Report Date: 05/08/2025
ORELAP#: OR100028
Purchase Order:
Received: 04/29/25 10:08

Revision: 4 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2503117**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0738	0.0739	%	99.8	80.0 - 120	Acceptable	
CBDV	2	0.0791	0.0783	%	101	80.0 - 120	Acceptable	
CBE	2	0.0731	0.0754	%	97.0	80.0 - 120	Acceptable	
CBDA	1	0.0681	0.0670	%	102	90.0 - 110	Acceptable	
CBGA	1	0.0665	0.0656	%	101	80.0 - 120	Acceptable	
CBG	1	0.0660	0.0641	%	103	80.0 - 120	Acceptable	
CBD	1	0.0629	0.0628	%	100	90.0 - 110	Acceptable	
THCV	2	0.0783	0.0777	%	101	80.0 - 120	Acceptable	
d8THCV	2	0.0791	0.0802	%	98.7	80.0 - 120	Acceptable	
THCVA	2	0.0731	0.0723	%	101	80.0 - 120	Acceptable	
CBN	1	0.0655	0.0635	%	103	80.0 - 120	Acceptable	
exo-THC	2	0.0739	0.0741	%	99.6	80.0 - 120	Acceptable	
d9THC	1	0.0667	0.0635	%	105	90.0 - 110	Acceptable	
d8THC	1	0.0656	0.0661	%	99.1	90.0 - 110	Acceptable	
9S-d10THC	1	0.0690	0.0678	%	102	80.0 - 120	Acceptable	
CBL	2	0.0775	0.0745	%	104	80.0 - 120	Acceptable	
9R-d10THC	1	0.0682	0.0680	%	100	80.0 - 120	Acceptable	
CBC	2	0.0764	0.0779	%	98.1	80.0 - 120	Acceptable	
THCA	1	0.0717	0.0714	%	100	90.0 - 110	Acceptable	
CBCA	2	0.0734	0.0756	%	97.1	80.0 - 120	Acceptable	
CBLA	2	0.0749	0.0754	%	99.3	80.0 - 120	Acceptable	
d9THCP	2	0.0744	0.0747	%	99.5	80.0 - 120	Acceptable	
CBT	2	0.0784	0.0779	%	101	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0717	%	< 0.0717	Acceptable	
CBDV	<LOQ	0.0717	%	< 0.0717	Acceptable	
CBE	<LOQ	0.0717	%	< 0.0717	Acceptable	
CBDA	<LOQ	0.0717	%	< 0.0717	Acceptable	
CBGA	<LOQ	0.0717	%	< 0.0717	Acceptable	
CBG	<LOQ	0.0717	%	< 0.0717	Acceptable	
CBD	<LOQ	0.0717	%	< 0.0717	Acceptable	
THCV	<LOQ	0.0717	%	< 0.0717	Acceptable	
d8THCV	<LOQ	0.0717	%	< 0.0717	Acceptable	
THCVA	<LOQ	0.0717	%	< 0.0717	Acceptable	
CBN	<LOQ	0.0717	%	< 0.0717	Acceptable	
exo-THC	<LOQ	0.0717	%	< 0.0717	Acceptable	
d9THC	<LOQ	0.0717	%	< 0.0717	Acceptable	
d8THC	<LOQ	0.0717	%	< 0.0717	Acceptable	
9S-d10THC	<LOQ	0.0717	%	< 0.0717	Acceptable	
CBL	<LOQ	0.0717	%	< 0.0717	Acceptable	
9R-d10THC	<LOQ	0.0717	%	< 0.0717	Acceptable	
CBC	<LOQ	0.0717	%	< 0.0717	Acceptable	
THCA	<LOQ	0.0717	%	< 0.0717	Acceptable	
CBCA	<LOQ	0.0717	%	< 0.0717	Acceptable	
CBLA	<LOQ	0.0717	%	< 0.0717	Acceptable	
d9THCP	<LOQ	0.0717	%	< 0.0717	Acceptable	
CBT	<LOQ	0.0717	%	< 0.0717	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 25-004481/D002.R000
Report Date: 05/08/2025
ORELAP#: OR100028
Purchase Order:
Received: 04/29/25 10:08

Revision: 4 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2503117**

Sample Duplicate Sample ID: **25-004431-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
CBDV	0.203	0.213	0.0700	%	5.06	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
CBD	71.6	72.2	0.0700	%	0.803	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 25-004481/D002.R000
Report Date: 05/08/2025
ORELAP#: OR100028
Purchase Order:
Received: 04/29/25 10:08

Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2503193

Method Blank					Laboratory Control Sample					
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**	**Notes**
1,1,1-Trichloroethane	ND	<	5		4.65	5	µg/g	93.0	50-150	
1,2-Dichloroethane	ND	<	1		0.93	1	µg/g	93.0	50-150	
1,2-Dichloroethene, trans-	ND	<	1		0.977	1	µg/g	97.7	50-150	
1,2-Dichloroethene,cis-	ND	<	1		1.02	1	µg/g	102.0	50-150	
1,4-Dioxane	ND	<	100		488	487	µg/g	100.2	60-120	
1-Pentanol	ND	<	500		1500	1640	µg/g	91.5	50-150	
1-Propanol	ND	<	500		1400	1640	µg/g	85.4	50-150	
2,2-Dimethylbutane	ND	<	30		164	182	µg/g	90.1	60-120	
2,2-Dimethylpropane	ND	<	200		726	956	µg/g	75.9	60-120	
2,3-Dimethylbutane	ND	<	30		147	184	µg/g	79.9	60-120	
2-Butanol	ND	<	200		1470	1640	µg/g	89.6	60-120	
2-Ethoxyethanol	ND	<	30		171	180	µg/g	95.0	60-120	
2-Methylbutane	ND	<	200		1430	1620	µg/g	88.3	60-120	
2-Methylpentane	ND	<	30		163	185	µg/g	88.1	60-120	
2-Propanol	ND	<	200		1430	1630	µg/g	87.7	60-120	
3-Methyl-1-butanol	ND	<	500		1490	1650	µg/g	90.3	50-150	
3-Methylpentane	ND	<	30		161	177	µg/g	91.0	60-120	
Acetone	ND	<	200		1420	1640	µg/g	86.6	60-120	
Acetonitrile	ND	<	100		436	513	µg/g	85.0	60-120	
Benzene	ND	<	1		0.94	1	µg/g	94.0	50-150	
Butane	ND	<	200		609	769	µg/g	79.2	60-120	
Butyl Acetate	ND	<	500		1440	1650	µg/g	87.3	50-150	
Cumene	ND	<	30		235	227	µg/g	103.5	60-120	
Cyclohexane	ND	<	200		1610	1610	µg/g	100.0	60-120	
Dichloromethane	ND	<	1		1.02	1	µg/g	102.0	50-150	
Ethanol	ND	<	200		1410	1680	µg/g	83.9	60-120	
Ethyl acetate	ND	<	200		1450	1620	µg/g	89.5	60-120	
Ethyl Ether	ND	<	200		1490	1640	µg/g	90.9	60-120	
Ethylbenzene	ND	<	200		1130	1060	µg/g	106.6	60-120	
Ethylene Glycol	ND	<	200		451	530	µg/g	85.1	60-120	
Ethylene Oxide	ND	<	1		0.964	1	µg/g	96.4	50-150	
Heptane	ND	<	200		1500	1610	µg/g	93.2	60-120	
Hexane	ND	<	30		159	174	µg/g	91.4	60-120	
Isobutane	ND	<	200		601	770	µg/g	78.1	60-120	
Isopropyl Acetate	ND	<	200		1540	1620	µg/g	95.1	60-120	
m,p-Xylene	ND	<	200		1030	1040	µg/g	99.0	60-120	
Methanol	ND	<	200		1420	1650	µg/g	86.1	60-120	
Methylethylketone	ND	<	500		1440	1690	µg/g	85.2	50-150	
Methylisobutylketone	ND	<	500		1470	1640	µg/g	89.6	50-150	
N,N-dimethylformamide	ND	<	150		548	535	µg/g	102.4	50-150	
o-Xylene	ND	<	200		1120	1090	µg/g	102.8	60-120	
Pentane	ND	<	200		1470	1620	µg/g	90.7	60-120	
Propane	ND	<	200		472	585	µg/g	80.7	60-120	
Sulfolane	ND	<	50		144	192	µg/g	75.0	50-150	
Tetrahydrofuran	ND	<	100		475	511	µg/g	93.0	60-120	
Toluene	ND	<	100		526	497	µg/g	105.8	60-120	
Triethylamine	ND	<	500		1450	1630	µg/g	89.0	50-150	

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 25-004481/D002.R000
Report Date: 05/08/2025
ORELAP#: OR100028
Purchase Order:
Received: 04/29/25 10:08

Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

QC - Sample Duplicate **Sample ID: 25-004481-0001**

Analyte	SR Result	SD Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
1,1,1-Trichloroethane	ND	ND	5	µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethene, trans-	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethene,cis-	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Heptane	365	463	200	µg/g	23.7	< 20	FAIL	R
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methylethylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 25-004481/D002.R000
Report Date: 05/08/2025
ORELAP#: OR100028
Purchase Order:
Received: 04/29/25 10:08

Revision: 3 Document ID: 3120
Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 **Units:** mg/Kg **Batch ID:** 2503195

Method Blank				Laboratory Control Sample					
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**		**Notes**
Abamectin	0.021	< 0.250		0.813	1.000	81.3	50.0	150	
Acephate	0.000	< 0.200		0.655	0.800	81.9	60.0	120	
Acequinocyl	0.427	< 1.000		3.939	4.000	98.5	40.0	160	
Acetamiprid	0.000	< 0.100		0.348	0.400	87.1	60.0	120	
Aldicarb	0.000	< 0.200		0.711	0.800	88.8	60.0	120	
Azoxystrobin	0.000	< 0.100		0.351	0.400	87.7	60.0	120	
Bifenazate	0.000	< 0.100		0.349	0.400	87.2	60.0	120	
Bifenthrin	0.010	< 0.100		0.377	0.400	94.2	50.0	150	
Boscalid	0.000	< 0.200		0.690	0.800	86.3	60.0	120	
Carbaryl	0.000	< 0.100		0.349	0.400	87.3	60.0	120	
Carbofuran	0.000	< 0.100		0.354	0.400	88.5	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.345	0.400	86.2	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.549	2.000	77.4	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.336	0.400	84.1	60.0	120	
Clofentezine	0.000	< 0.100		0.319	0.400	79.8	60.0	120	
Cyfluthrin	0.000	< 0.500		1.746	2.000	87.3	50.0	150	
Cypermethrin	0.000	< 0.500		1.748	2.000	87.4	50.0	150	
Daminozide	0.000	< 0.500		0.650	2.000	***32.5***	60.0	120	**Q7**
Diazinon	0.000	< 0.100		0.349	0.400	87.2	60.0	120	
Dichlorvos	0.014	< 0.500		1.729	2.000	86.4	60.0	120	
Dimethoate	0.000	< 0.100		0.355	0.400	88.8	60.0	120	
Ethoprophos	0.000	< 0.100		0.348	0.400	87.0	60.0	120	
Etofenprox	0.022	< 0.200		0.734	0.800	91.8	50.0	150	
Etoxazole	0.005	< 0.100		0.346	0.400	86.6	60.0	120	
Fenoxycarb	0.000	< 0.100		0.344	0.400	86.0	60.0	120	
Fenpyroximate	0.000	< 0.200		0.708	0.800	88.6	60.0	120	
Fipronil	0.000	< 0.200		0.676	0.800	84.5	60.0	120	
Flonicamid	0.000	< 0.250		0.840	1.000	84.0	60.0	120	
Fludioxonil	0.000	< 0.200		0.695	0.800	86.9	50.0	150	
Hexythiazox	0.000	< 0.250		0.873	1.000	87.3	60.0	120	
Imazalil	0.001	< 0.100		0.353	0.400	88.3	60.0	120	
Imidacloprid	0.000	< 0.200		0.683	0.800	85.3	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.702	0.800	87.7	60.0	120	
Malathion	0.000	< 0.100		0.346	0.400	86.5	60.0	120	
Metalaxyl	0.000	< 0.100		0.349	0.400	87.2	60.0	120	
Methiocarb	0.000	< 0.100		0.344	0.400	86.0	60.0	120	
Methomyl	0.000	< 0.200		0.709	0.800	88.6	60.0	120	
MGK-264	0.000	< 0.100		0.361	0.400	90.4	50.0	150	
Myclobutanil	0.000	< 0.100		0.342	0.400	85.4	60.0	120	
Naled	0.000	< 0.250		0.860	1.000	86.0	50.0	150	
Oxamyl	0.000	< 0.500		1.738	2.000	86.9	60.0	120	
Paclobutrazole	0.000	< 0.200		0.700	0.800	87.4	60.0	120	
Parathion-Methyl	0.000	< 0.100		0.341	0.400	85.2	50.0	150	
Permethrin	0.004	< 0.100		0.360	0.400	89.9	50.0	150	
Phosmet	0.040	< 0.100		0.327	0.400	81.7	50.0	150	
Piperonyl butoxide	0.000	< 0.500		1.949	2.000	97.5	60.0	120	
Prallethrin	0.000	< 0.100		0.348	0.400	86.9	60.0	120	
Propiconazole	0.000	< 0.200		0.686	0.800	85.7	60.0	120	
Propoxur	0.000	< 0.100		0.353	0.400	88.1	60.0	120	
Pyrethrin (Summe)	0.001	< 0.100		0.437	0.488	89.5	60.0	120	
Pyridaben	0.005	< 0.100		0.346	0.400	86.4	50.0	150	
Spinosad	0.000	< 0.100		0.336	0.388	86.5	50.0	150	
Spiromesifen	0.000	< 0.100		0.366	0.400	91.6	60.0	120	
Spirotetramat	0.000	< 0.100		0.338	0.400	84.6	60.0	120	
Spiroxamine	0.000	< 0.200		0.687	0.800	85.8	60.0	120	

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 25-004481/D002.R000
Report Date: 05/08/2025
ORELAP#: OR100028
Purchase Order:
Received: 04/29/25 10:08

Revision: 3 Document ID: 3120
Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 **Units:** mg/Kg **Batch ID:** 2503195

Matrix Spike/Matrix Spike Duplicate Recoveries **Sample ID: 25-004663-0001**

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.022	0.733	0.711	1.000	3.2%	< 30	71.1%	68.9%	50 - 150	
Acephate	0.000	0.763	0.681	0.800	11.4%	< 30	95.4%	85.1%	50 - 150	
Acequinocyl	0.000	2.436	2.399	4.000	1.5%	< 30	60.9%	60.0%	50 - 150	
Acetamiprid	0.000	0.357	0.336	0.400	6.0%	< 30	89.3%	84.1%	50 - 150	
Aldicarb	0.000	0.724	0.674	0.800	7.1%	< 30	90.4%	84.3%	50 - 150	
Azoxystrobin	0.000	0.346	0.335	0.400	3.3%	< 30	86.6%	83.8%	50 - 150	
Bifenazate	0.000	0.331	0.314	0.400	5.1%	< 30	82.7%	78.6%	50 - 150	
Bifenthrin	0.008	0.262	0.247	0.400	6.1%	< 30	63.4%	59.7%	50 - 150	
Boscalid	0.000	0.576	0.536	0.800	7.2%	< 30	72.0%	67.0%	50 - 150	
Carbaryl	0.000	0.367	0.330	0.400	10.5%	< 30	91.7%	82.6%	50 - 150	
Carbofuran	0.000	0.375	0.345	0.400	8.2%	< 30	93.7%	86.3%	50 - 150	
Chlorantraniliprole	0.000	0.364	0.359	0.400	1.2%	< 30	90.9%	89.8%	50 - 150	
Chlorfenapyr	0.000	2.062	1.890	2.000	8.7%	< 30	103.1%	94.5%	50 - 150	
Chlorpyrifos	0.000	0.187	0.191	0.400	2.3%	< 30	46.6%	47.7%	50 - 150	Q
Clofentezine	0.000	0.327	0.298	0.400	9.4%	< 30	81.8%	74.5%	50 - 150	
Cyfluthrin	0.000	1.187	1.011	2.000	16.0%	< 30	59.4%	50.6%	30 - 150	
Cypermethrin	0.043	1.691	1.594	2.000	6.1%	< 30	82.4%	77.6%	50 - 150	
Daminozide	0.000	0.946	0.875	2.000	7.9%	< 30	47.3%	43.7%	30 - 150	
Diazinon	0.000	0.335	0.312	0.400	7.1%	< 30	83.7%	78.0%	50 - 150	
Dichlorvos	0.014	1.703	1.629	2.000	4.4%	< 30	84.4%	80.8%	50 - 150	
Dimethoate	0.000	0.360	0.337	0.400	6.6%	< 30	89.9%	84.2%	50 - 150	
Ethoprophos	0.000	0.336	0.313	0.400	7.1%	< 30	84.0%	78.3%	50 - 150	
Etofenprox	0.020	0.547	0.518	0.800	5.6%	< 30	65.8%	62.2%	50 - 150	
Etoxazole	0.050	0.303	0.321	0.400	6.7%	< 30	63.3%	67.7%	50 - 150	
Fenoxycarb	0.000	0.363	0.337	0.400	7.6%	< 30	90.8%	84.2%	50 - 150	
Fenpyroximate	0.000	0.653	0.632	0.800	3.3%	< 30	81.6%	79.0%	50 - 150	
Fipronil	0.000	0.746	0.701	0.800	6.2%	< 30	93.2%	87.6%	50 - 150	
Flonicamid	0.000	0.825	0.762	1.000	7.9%	< 30	82.5%	76.2%	50 - 150	
Fludioxonil	0.000	0.671	0.678	0.800	1.0%	< 30	83.8%	84.7%	50 - 150	
Hexythiazox	0.000	0.077	0.075	1.000	2.1%	< 30	7.7%	7.5%	50 - 150	Q
Imazalil	0.000	0.354	0.332	0.400	6.3%	< 30	88.4%	83.0%	50 - 150	
Imidacloprid	0.000	0.496	0.466	0.800	6.3%	< 30	62.0%	58.2%	50 - 150	
Kresoxim-methyl	0.000	0.682	0.653	0.800	4.3%	< 30	85.2%	81.6%	50 - 150	
Malathion	0.000	0.340	0.321	0.400	5.9%	< 30	85.0%	80.1%	50 - 150	
Metalaxyl	0.000	0.335	0.320	0.400	4.7%	< 30	83.7%	79.9%	50 - 150	
Methiocarb	0.000	0.301	0.286	0.400	5.1%	< 30	75.2%	71.5%	50 - 150	
Methomyl	0.000	0.724	0.648	0.800	11.1%	< 30	90.4%	81.0%	50 - 150	
MGK-264	0.000	0.292	0.286	0.400	2.0%	< 30	73.1%	71.6%	50 - 150	
Myclobutanil	0.000	0.319	0.300	0.400	6.1%	< 30	79.7%	74.9%	50 - 150	
Naled	0.000	0.881	0.844	1.000	4.3%	< 30	88.1%	84.4%	50 - 150	
Oxamyl	0.000	1.716	1.606	2.000	6.6%	< 30	85.8%	80.3%	50 - 150	
Paclobutrazole	0.000	0.664	0.630	0.800	5.1%	< 30	82.9%	78.8%	50 - 150	
Parathion-Methyl	0.000	0.395	0.354	0.400	11.0%	< 30	98.7%	88.4%	30 - 150	
Permethrin	0.000	0.338	0.305	0.400	10.2%	< 30	84.5%	76.4%	50 - 150	
Phosmet	0.000	0.317	0.297	0.400	6.6%	< 30	79.4%	74.3%	50 - 150	
Piperonyl butoxide	0.000	1.730	1.631	2.000	5.8%	< 30	86.5%	81.6%	50 - 150	
Prallethrin	0.000	0.263	0.239	0.400	9.4%	< 30	65.7%	59.8%	50 - 150	
Propiconazole	0.000	0.675	0.629	0.800	7.1%	< 30	84.3%	78.6%	50 - 150	
Propoxur	0.000	0.344	0.330	0.400	4.2%	< 30	86.1%	82.5%	50 - 150	
Pyrethrin (Summe)	0.134	0.677	0.617	0.488	11.6%	< 30	111.4%	99.2%	50 - 150	
Pyridaben	0.004	0.291	0.274	0.400	6.3%	< 30	71.8%	67.4%	50 - 150	
Spinosad	0.000	0.308	0.291	0.388	5.7%	< 30	79.5%	75.1%	50 - 150	
Spiromesifen	0.000	0.111	0.110	0.400	0.9%	< 30	27.8%	27.5%	50 - 150	Q
Spirotetramat	0.000	0.285	0.273	0.400	4.2%	< 30	71.3%	68.4%	50 - 150	
Spiroxamine	0.000	0.657	0.620	0.800	5.9%	< 30	82.2%	77.5%	50 - 150	

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	25-004481/D002.R000
Report Date:	05/08/2025
ORELAP#:	OR100028
Purchase Order:	
Received:	04/29/25 10:08

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 25-004481/D002.R000
Report Date: 05/08/2025
ORELAP#: OR100028
Purchase Order:
Received: 04/29/25 10:08

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.