Columbia LABORATORIES
A Tentamus Company

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

Report Number: 25-001111/D005.R001
Report Date: 02/13/2025
ORELAP#: OR100028
Purchase Order:
Received: 01/31/25 10:41

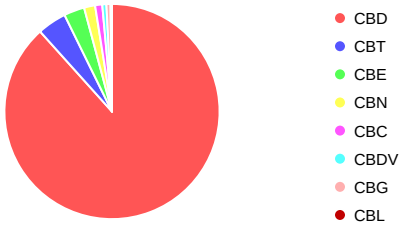
This is an amended version of report# 25-001111/D005.R000.
Reason: Additional testing added

Customer: Central Oregon Processing
Product identity: UBS GVL-TST905
Metrc ID: .
Metrc Source ID:
Laboratory ID: 25-001111-0005

Summary

Potency:

Analyte	Result (%)
CBD	76.6
CBT	3.80
CBE	2.68
CBN	1.44
CBC	0.930
CBDV	0.539
CBG	0.527
CBL	0.190



CBD-Total⊥ 76.6%

Delta-9-THC-Total⊥ <LOQ

(Reported in percent of total sample)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.

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

Product identity: UBS GVL-TST905
Metrc ID: .
Metrc Source ID:
Material: Cannabinoid Extract
Sample Date:
Laboratory ID: 25-001111-0005
Evidence of Cooling: No
Temp: 19.2 °C

Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)[b] **Units** % **Batch:** 2500800 **Analyze:** 2/3/25 7:18:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	0.930		0.0758	
CBC-A	< LOQ		0.0758	
CBC-Total	0.930		0.142	
CBD[⊥]	76.6		0.758	
CBD-A[⊥]	< LOQ		0.0758	
CBD-Total[⊥]	76.6		0.824	
CBDV	0.539		0.0758	
CBDV-A	< LOQ		0.0758	
CBDV-Total	0.539		0.141	
CBE	2.68		0.0758	
CBG	0.527		0.0758	
CBG-A	< LOQ		0.0758	
CBG-Total	0.527		0.141	
CBL	0.190		0.0758	
CBL-A	< LOQ		0.0758	
CBL-Total	0.190		0.142	
CBN	1.44		0.0758	
CBT	3.80		0.0758	
Δ10-THC-9R	< LOQ		0.0758	
Δ10-THC-9S	< LOQ		0.0758	
Δ10-THC-Total	< LOQ		0.152	
Δ8-THC[⊥]	< LOQ		0.0758	
Δ8-THCV	< LOQ		0.0758	
Δ9-THC[⊥]	< LOQ		0.0758	
Δ9-THC-A[⊥]	< LOQ		0.0758	
Δ9-THC-Total[⊥]	< LOQ		0.142	
Δ9-THCP	< LOQ		0.0758	
Δ9-THCV	< LOQ		0.0758	
Δ9-THCV-A	< LOQ		0.0758	

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Potency

Method: J AOAC 2015 V98-6 (mod)þ **Units** % **Batch:** 2500800 **Analyze:** 2/3/25 7:18:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
Δ9-THCV-Total	< LOQ		0.141	
exo-THC	< LOQ		0.0758	
Total Cannabinoids	86.7			

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2500894	02/09/25	AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2500894	02/09/25	AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2500895	02/10/25	AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2500895	02/10/25	AOAC 2014.05 (RAPID)		

Solvents

Method: Residual Solvents by HS-GC-MSþ **Units** µg/g **Batch** 2500970 **Analyze** 02/11/25 10:39 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⊥	< LOQ	5000	200	pass	
n-Hexane⊥	< LOQ		30.0			n-Pentane⊥	< LOQ		200		
o-Xylene⊥	< LOQ		200			Pentanes (sum)	< LOQ	5000	600	pass	
Propane	< LOQ	5000	200	pass		Tetrahydrofuran⊥	< LOQ	720	100	pass	
Toluene⊥	< LOQ	890	100	pass		Total Xylenes⊥	< LOQ		400		
Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass							

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Pesticides

Method: AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2500984 **Analyze** 02/11/25 02:35 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin⊥	< LOQ	0.50	0.250	pass		Acephate⊥	< LOQ	0.40	0.200	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 and	< 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	0.0987	2500989	02/11/25	AOAC 2013.06 (mod.)þ	pass	
Cadmium⊥	< LOQ	0.200	mg/kg	0.0987	2500989	02/11/25	AOAC 2013.06 (mod.)þ	pass	
Lead⊥	< LOQ	0.500	mg/kg	0.0987	2500989	02/11/25	AOAC 2013.06 (mod.)þ	pass	
Mercury⊥	< LOQ	0.100	mg/kg	0.0493	2500989	02/11/25	AOAC 2013.06 (mod.)þ	pass	

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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

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A Tentamus Company

Hemp & Cannabis Chain of Custody

Central-Oregon-Processing-1738271461

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	Reporting Unit	Additional Test Requests and Sample Comments	Testing: P2130 - California Regulated Pesticide List (Cannabis)	Testing: P2120 - Pesticides (OR - Cannabis)	Testing: H0010 - Potency Cannabis (Basic+Expanded)
1	Intermediate CBD Crude NTK1232 (HS8)	Cannabinoid Extract	5 g	%	mixed pesticide thresholds	✓		
2	CBD Distillate GVL-TST902	Cannabinoid Extract	15 g	N/A	Please retain the sample, will add additional testing after seeing the pesticide results.		✓	
3	BSD GVL-TST903	Cannabinoid Extract	25 g	%	N/A			✓
4	Comp FSD GVL-TST904	Cannabinoid Extract	25 g	%	N/A			✓
5	UBS GVL-TST905	Cannabinoid Extract	25 g	%	N/A			✓

Relinquished By	Date	Time
Bharath Pogula	01/30/2025	13:11

Received By	Date	Time	Received Temp., °C	IR Therm. CL#	Other IR Therm. CL#
dst	01/31/2025	10:41	19.2	Other	0586

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

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2500800**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0728	0.0743	%	98.1	80.0 - 120	Acceptable	
CBDV	2	0.0742	0.0784	%	94.6	80.0 - 120	Acceptable	
CBE	2	0.0757	0.0762	%	99.3	80.0 - 120	Acceptable	
CBDA	1	0.0755	0.0754	%	100	90.0 - 110	Acceptable	
CBGA	1	0.0721	0.0751	%	95.9	80.0 - 120	Acceptable	
CBG	1	0.0729	0.0719	%	102	80.0 - 120	Acceptable	
CBD	1	0.0623	0.0625	%	99.7	90.0 - 110	Acceptable	
THCV	2	0.0784	0.0780	%	101	80.0 - 120	Acceptable	
d8THCV	2	0.0812	0.0801	%	101	80.0 - 120	Acceptable	
THCVA	2	0.0789	0.0733	%	108	80.0 - 120	Acceptable	
CBN	1	0.0729	0.0719	%	101	80.0 - 120	Acceptable	
exo-THC	2	0.0763	0.0757	%	101	80.0 - 120	Acceptable	
d9THC	1	0.0667	0.0647	%	103	90.0 - 110	Acceptable	
d8THC	1	0.0728	0.0753	%	96.7	90.0 - 110	Acceptable	
9S-d10THC	1	0.0751	0.0759	%	99.0	80.0 - 120	Acceptable	
CBL	2	0.0746	0.0754	%	99.0	80.0 - 120	Acceptable	
9S-HHC	3	0.0749	0.0730	%	103	80.0 - 120	Acceptable	
9R-d10THC	1	0.0641	0.0656	%	97.8	80.0 - 120	Acceptable	
CBC	2	0.0796	0.0791	%	101	80.0 - 120	Acceptable	
9R-HHC	3	0.0728	0.0721	%	101	80.0 - 120	Acceptable	
THCA	1	0.0781	0.0802	%	97.4	90.0 - 110	Acceptable	
CBCA	2	0.0790	0.0771	%	103	80.0 - 120	Acceptable	
CBLA	2	0.0795	0.0782	%	102	80.0 - 120	Acceptable	
d9THCP	2	0.0757	0.0767	%	98.6	80.0 - 120	Acceptable	
d8THCO	3	0.0696	0.0714	%	97.5	80.0 - 120	Acceptable	
CBT	2	0.0746	0.0798	%	93.5	80.0 - 120	Acceptable	
d9THCO	3	0.0724	0.0721	%	100	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0763	%	< 0.0763	Acceptable	
CBDV	<LOQ	0.0763	%	< 0.0763	Acceptable	
CBE	<LOQ	0.0763	%	< 0.0763	Acceptable	
CBDA	<LOQ	0.0763	%	< 0.0763	Acceptable	
CBGA	<LOQ	0.0763	%	< 0.0763	Acceptable	
CBG	<LOQ	0.0763	%	< 0.0763	Acceptable	
CBD	<LOQ	0.0763	%	< 0.0763	Acceptable	
THCV	<LOQ	0.0763	%	< 0.0763	Acceptable	
d8THCV	<LOQ	0.0763	%	< 0.0763	Acceptable	
THCVA	<LOQ	0.0763	%	< 0.0763	Acceptable	
CBN	<LOQ	0.0763	%	< 0.0763	Acceptable	
exo-THC	<LOQ	0.0763	%	< 0.0763	Acceptable	
d9THC	<LOQ	0.0763	%	< 0.0763	Acceptable	
d8THC	<LOQ	0.0763	%	< 0.0763	Acceptable	
9S-d10THC	<LOQ	0.0763	%	< 0.0763	Acceptable	
CBL	<LOQ	0.0763	%	< 0.0763	Acceptable	
9S-HHC	<LOQ	0.0763	%	< 0.0763	Acceptable	
9R-d10THC	<LOQ	0.0763	%	< 0.0763	Acceptable	
CBC	<LOQ	0.0763	%	< 0.0763	Acceptable	
9R-HHC	<LOQ	0.0763	%	< 0.0763	Acceptable	
THCA	<LOQ	0.0763	%	< 0.0763	Acceptable	
CBCA	<LOQ	0.0763	%	< 0.0763	Acceptable	
CBLA	<LOQ	0.0763	%	< 0.0763	Acceptable	
d9THCP	<LOQ	0.0763	%	< 0.0763	Acceptable	
d8THCO	<LOQ	0.0763	%	< 0.0763	Acceptable	
CBT	<LOQ	0.0763	%	< 0.0763	Acceptable	
d9THCO	<LOQ	0.0763	%	< 0.0763	Acceptable	

Abbreviations

ND - None Detected at or above MRL

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Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2500800**

Sample Duplicate Sample ID: **25-001057-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
9S-HHC	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
9R-HHC	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
d9THCP	89.2	88.1	0.0743	%	1.31	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.0743	%	NA	< 20	Acceptable	
d9THCO	<LOQ	<LOQ	0.0743	%	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: 25-001111/D005.R001
Report Date: 02/13/2025
ORELAP#: OR100028
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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2500970

Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**
Propane	ND	<	200		553	585	µg/g	94.5	60	-	120	
Isobutane	ND	<	200		660	770	µg/g	85.7	60	-	120	
Butane	ND	<	200		664	769	µg/g	86.3	60	-	120	
2,2-Dimethylpropane	ND	<	200		795	956	µg/g	83.2	60	-	120	
Methanol	ND	<	200		1190	1620	µg/g	73.5	60	-	120	
Ethylene Oxide	ND	<	30		48.5	57.7	µg/g	84.1	60	-	120	
2-Methylbutane	ND	<	200		1190	1640	µg/g	72.6	60	-	120	
Pentane	ND	<	200		1160	1640	µg/g	70.7	60	-	120	
Ethanol	ND	<	200		1040	1620	µg/g	64.2	70	-	130	Q6
Ethyl Ether	ND	<	200		1190	1630	µg/g	73.0	60	-	120	
2,2-Dimethylbutane	ND	<	30		145	212	µg/g	68.4	60	-	120	
Acetone	ND	<	200		1160	1630	µg/g	71.2	60	-	120	
2-Propanol	ND	<	200		1110	1620	µg/g	68.5	60	-	120	
Ethyl Formate	ND	<	500		2090	1610	µg/g	129.8	70	-	130	
Acetonitrile	ND	<	100		326	504	µg/g	64.7	60	-	120	
Methyl Acetate	ND	<	500		1120	1610	µg/g	69.6	70	-	130	Q6
2,3-Dimethylbutane	ND	<	30		137	189	µg/g	72.5	60	-	120	
Dichloromethane	ND	<	60		371	538	µg/g	69.0	60	-	120	
2-Methylpentane	ND	<	30		125	182	µg/g	68.7	60	-	120	
MTBE	ND	<	500		1170	1610	µg/g	72.7	70	-	130	
3-Methylpentane	ND	<	30		130	179	µg/g	72.6	60	-	120	
Hexane	ND	<	30		134	178	µg/g	75.3	60	-	120	
1-Propanol	ND	<	500		1090	1600	µg/g	68.1	70	-	130	Q6
Methylethylketone	ND	<	500		1100	1610	µg/g	68.3	70	-	130	Q6
Ethyl acetate	ND	<	200		1210	1620	µg/g	74.7	60	-	120	
2-Butanol	ND	<	200		1170	1620	µg/g	72.2	60	-	120	
Tetrahydrofuran	ND	<	100		394	511	µg/g	77.1	60	-	120	
Cyclohexane	ND	<	200		1370	1620	µg/g	84.6	60	-	120	
2-methyl-1-propanol	ND	<	500		1320	1610	µg/g	82.0	70	-	130	
Benzene	ND	<	1		4.64	6.03	µg/g	76.9	60	-	120	
Isopropyl Acetate	ND	<	200		1230	1620	µg/g	75.9	60	-	120	
Heptane	ND	<	200		1170	1620	µg/g	72.2	60	-	120	
1-Butanol	ND	<	500		1220	1610	µg/g	75.8	70	-	130	
Propyl Acetate	ND	<	500		1190	1620	µg/g	73.5	70	-	130	
1,4-Dioxane	ND	<	100		439	503	µg/g	87.3	60	-	120	
2-Ethoxyethanol	ND	<	30		130	176	µg/g	73.9	60	-	120	
Methylisobutylketone	ND	<	500		1150	1620	µg/g	71.0	70	-	130	
3-Methyl-1-butanol	ND	<	500		1190	1600	µg/g	74.4	70	-	130	
Ethylene Glycol	ND	<	200		313	501	µg/g	62.5	60	-	120	
Toluene	ND	<	100		482	543	µg/g	88.8	60	-	120	
Isobutyl Acetate	ND	<	500		1060	1620	µg/g	65.4	70	-	130	Q6
1-Pentanol	ND	<	500		1030	1600	µg/g	64.4	70	-	130	Q6
Butyl Acetate	ND	<	500		1060	1600	µg/g	66.3	70	-	130	Q6
Ethylbenzene	ND	<	200		858	983	µg/g	87.3	60	-	120	
m,p-Xylene	ND	<	200		843	1030	µg/g	81.8	60	-	120	
o-Xylene	ND	<	200		879	979	µg/g	89.8	60	-	120	
Cumene	ND	<	30		172	183	µg/g	94.0	60	-	120	
Anisole	ND	<	500		1340	1610	µg/g	83.2	70	-	130	
DMSO	ND	<	500		1110	1600	µg/g	69.4	70	-	130	Q6
1,2-dimethoxyethane	ND	<	50		113	162	µg/g	69.8	70	-	130	Q6
Triethylamine	ND	<	500		1280	1600	µg/g	80.0	70	-	130	
N,N-dimethylformamide	ND	<	150		342	487	µg/g	70.2	70	-	130	
N,N-dimethylacetamide	ND	<	150		412	498	µg/g	82.7	70	-	130	
Pyridine	ND	<	50		116	162	µg/g	71.6	70	-	130	
Sulfolane	ND	<	50		108	173	µg/g	62.4	70	-	130	Q6
1,2-Dichloroethane	ND	<	1		0.838	1	µg/g	83.8	70	-	130	
Chloroform	ND	<	1		0.794	1	µg/g	79.4	70	-	130	
Trichloroethylene	ND	<	1		0.87	1	µg/g	87.0	70	-	130	
1,1-Dichloroethane	ND	<	1		0.702	1	µg/g	70.2	70	-	130	

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QC - Sample Duplicate **Sample ID: 25-001044-0001**

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	60	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	100	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	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,1-Dichloroethane	ND	ND	1	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
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503-254-1794

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 **Units:** mg/Kg **Batch ID:** 2500984

Method Blank				Laboratory Control Sample					
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**		**Notes**
Abamectin	0.000	< 0.250		0.968	1.000	96.8	50.0	150	
Acephate	0.000	< 0.200		0.739	0.800	92.3	60.0	120	
Acequinocyl	0.000	< 1.000		4.319	4.000	108.0	40.0	160	
Acetamiprid	0.000	< 0.100		0.360	0.400	90.1	60.0	120	
Aldicarb	0.000	< 0.200		0.711	0.800	88.9	60.0	120	
Azoxystrobin	0.002	< 0.100		0.357	0.400	89.4	60.0	120	
Bifenazate	0.000	< 0.100		0.397	0.400	99.3	60.0	120	
Bifenthrin	0.035	< 0.100		0.301	0.400	75.2	50.0	150	
Boscalid	0.000	< 0.200		0.738	0.800	92.2	60.0	120	
Carbaryl	0.000	< 0.100		0.361	0.400	90.3	60.0	120	
Carbofuran	0.000	< 0.100		0.369	0.400	92.3	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.356	0.400	89.0	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.969	2.000	98.5	60.0	120	
Chlorpyrifos	0.001	< 0.100		0.363	0.400	90.7	60.0	120	
Clofentezine	0.000	< 0.100		0.219	0.400	***54.7***	60.0	120	Q7
Cyfluthrin	0.025	< 0.500		1.772	2.000	88.6	50.0	150	
Cypermethrin	0.004	< 0.500		1.700	2.000	85.0	50.0	150	
Daminozide	0.000	< 0.500		0.601	2.000	***30.1***	60.0	120	Q7
Diazinon	0.000	< 0.100		0.359	0.400	89.8	60.0	120	
Dichlorvos	0.000	< 0.500		1.743	2.000	87.2	60.0	120	
Dimethoate	0.001	< 0.100		0.357	0.400	89.2	60.0	120	
Ethoprophos	0.001	< 0.100		0.357	0.400	89.3	60.0	120	
Etofenprox	0.065	< 0.200		0.590	0.800	73.8	50.0	150	
Etoxazole	0.000	< 0.100		0.358	0.400	89.6	60.0	120	
Fenoxycarb	0.000	< 0.100		0.378	0.400	94.4	60.0	120	
Fenpyroximate	0.016	< 0.200		0.684	0.800	85.5	60.0	120	
Fipronil	0.000	< 0.200		0.702	0.800	87.7	60.0	120	
Flonicamid	0.000	< 0.250		0.930	1.000	93.0	60.0	120	
Fludioxonil	0.000	< 0.200		0.733	0.800	91.6	50.0	150	
Hexythiazox	0.003	< 0.250		0.896	1.000	89.6	60.0	120	
Imazalil	0.000	< 0.100		0.376	0.400	94.1	60.0	120	
Imidacloprid	0.000	< 0.200		0.738	0.800	92.2	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.721	0.800	90.1	60.0	120	
Malathion	0.000	< 0.100		0.361	0.400	90.3	60.0	120	
Metalaxyl	0.000	< 0.100		0.363	0.400	90.8	60.0	120	
Methiocarb	0.000	< 0.100		0.362	0.400	90.5	60.0	120	
Methomyl	0.000	< 0.200		0.777	0.800	97.2	60.0	120	
MGK-264	0.000	< 0.100		0.377	0.400	94.3	50.0	150	
Myclobutanil	0.000	< 0.100		0.379	0.400	94.7	60.0	120	
Naled	0.000	< 0.250		0.866	1.000	86.6	50.0	150	
Oxamyl	0.000	< 0.500		1.932	2.000	96.6	60.0	120	
Paclobutrazole	0.000	< 0.200		0.733	0.800	91.6	60.0	120	
Parathion-Methyl	0.000	< 0.100		0.384	0.400	95.9	50.0	150	
Permethrin	0.024	< 0.100		0.331	0.400	82.9	50.0	150	
Phosmet	0.000	< 0.100		0.364	0.400	91.1	50.0	150	
Piperonyl butoxide	0.000	< 0.500		1.865	2.000	93.2	60.0	120	
Prallethrin	0.000	< 0.100		0.367	0.400	91.7	60.0	120	
Propiconazole	0.000	< 0.200		0.742	0.800	92.7	60.0	120	
Propoxur	0.000	< 0.100		0.363	0.400	90.7	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.406	0.488	83.2	60.0	120	
Pyridaben	0.002	< 0.100		0.352	0.400	87.9	50.0	150	
Spinosad	0.000	< 0.100		0.344	0.388	88.6	50.0	150	
Spiromesifen	0.000	< 0.100		0.382	0.400	95.6	60.0	120	
Spirotetramat	0.000	< 0.100		0.368	0.400	91.9	60.0	120	
Spiroxamine	0.000	< 0.200		0.729	0.800	91.1	60.0	120	

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 **Units:** mg/Kg **Batch ID:** 2500984

Matrix Spike/Matrix Spike Duplicate Recoveries **Sample ID: 25-001379-0001**

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.942	0.980	1.000	4.0%	< 30	94.2%	98.0%	50 - 150	
Acephate	0.000	0.732	0.700	0.800	4.5%	< 30	91.6%	87.5%	50 - 150	
Acequinocyl	0.000	4.460	5.463	4.000	20.2%	< 30	111.5%	136.6%	50 - 150	
Acetamiprid	0.000	0.366	0.363	0.400	0.7%	< 30	91.4%	90.8%	50 - 150	
Aldicarb	0.000	0.700	0.704	0.800	0.6%	< 30	87.5%	88.0%	50 - 150	
Azoxystrobin	0.001	0.345	0.353	0.400	2.3%	< 30	86.0%	88.0%	50 - 150	
Bifenazate	0.000	0.389	0.379	0.400	2.4%	< 30	97.2%	94.8%	50 - 150	
Bifenthrin	0.034	0.304	0.306	0.400	0.9%	< 30	67.3%	68.0%	50 - 150	
Boscalid	0.000	0.710	0.727	0.800	2.3%	< 30	88.8%	90.8%	50 - 150	
Carbaryl	0.000	0.359	0.350	0.400	2.6%	< 30	89.7%	87.4%	50 - 150	
Carbofuran	0.000	0.357	0.354	0.400	0.8%	< 30	89.2%	88.5%	50 - 150	
Chlorantraniliprole	0.000	0.347	0.347	0.400	0.0%	< 30	86.8%	86.8%	50 - 150	
Chlorfenapyr	0.000	1.601	1.656	2.000	3.4%	< 30	80.0%	82.8%	50 - 150	
Chlorpyrifos	0.001	0.361	0.355	0.400	1.7%	< 30	90.1%	88.6%	50 - 150	
Clofentezine	0.000	0.290	0.303	0.400	4.4%	< 30	72.6%	75.9%	50 - 150	
Cyfluthrin	0.015	1.914	1.855	2.000	3.2%	< 30	95.0%	92.0%	30 - 150	
Cypermethrin	0.003	1.661	1.673	2.000	0.7%	< 30	82.9%	83.5%	50 - 150	
Daminozide	0.000	0.607	0.605	2.000	0.4%	< 30	30.4%	30.2%	30 - 150	
Diazinon	0.000	0.373	0.374	0.400	0.3%	< 30	93.3%	93.6%	50 - 150	
Dichlorvos	0.025	1.682	1.747	2.000	3.9%	< 30	82.9%	86.1%	50 - 150	
Dimethoate	0.001	0.354	0.352	0.400	0.5%	< 30	88.3%	87.9%	50 - 150	
Ethoprophos	0.001	0.337	0.343	0.400	2.0%	< 30	84.0%	85.7%	50 - 150	
Etofenprox	0.063	0.596	0.603	0.800	1.4%	< 30	66.6%	67.5%	50 - 150	
Etoxazole	0.000	0.354	0.361	0.400	1.8%	< 30	88.6%	90.2%	50 - 150	
Fenoxycarb	0.000	0.368	0.370	0.400	0.5%	< 30	92.1%	92.6%	50 - 150	
Fenpyroximate	0.015	0.669	0.680	0.800	1.7%	< 30	81.7%	83.1%	50 - 150	
Fipronil	0.000	0.704	0.694	0.800	1.5%	< 30	88.1%	86.8%	50 - 150	
Flonicamid	0.000	0.872	0.899	1.000	3.0%	< 30	87.2%	89.9%	50 - 150	
Fludioxonil	0.000	0.674	0.693	0.800	2.7%	< 30	84.2%	86.6%	50 - 150	
Hexythiazox	0.003	0.987	1.020	1.000	3.3%	< 30	98.4%	101.7%	50 - 150	
Imazalil	0.000	0.371	0.374	0.400	0.9%	< 30	92.6%	93.4%	50 - 150	
Imidacloprid	0.000	0.679	0.684	0.800	0.7%	< 30	84.8%	85.5%	50 - 150	
Kresoxim-methyl	0.032	0.695	0.730	0.800	5.1%	< 30	82.9%	87.2%	50 - 150	
Malathion	0.000	0.359	0.350	0.400	2.5%	< 30	89.8%	87.6%	50 - 150	
Metalaxyl	0.000	0.363	0.373	0.400	2.7%	< 30	90.8%	93.2%	50 - 150	
Methiocarb	0.000	0.347	0.349	0.400	0.4%	< 30	86.8%	87.2%	50 - 150	
Methomyl	0.000	0.742	0.766	0.800	3.2%	< 30	92.7%	95.8%	50 - 150	
MGK-264	0.000	0.374	0.346	0.400	7.7%	< 30	93.4%	86.5%	50 - 150	
Myclobutanil	0.000	0.350	0.366	0.400	4.4%	< 30	87.6%	91.6%	50 - 150	
Naled	0.000	0.863	0.859	1.000	0.5%	< 30	86.3%	85.9%	50 - 150	
Oxamyl	0.000	1.847	1.836	2.000	0.6%	< 30	92.4%	91.8%	50 - 150	
Paclobutrazole	0.000	0.714	0.734	0.800	2.7%	< 30	89.3%	91.8%	50 - 150	
Parathion-Methyl	0.000	0.355	0.369	0.400	3.7%	< 30	88.9%	92.2%	30 - 150	
Permethrin	0.000	0.354	0.360	0.400	1.8%	< 30	88.5%	90.0%	50 - 150	
Phosmet	0.000	0.350	0.365	0.400	4.2%	< 30	87.5%	91.2%	50 - 150	
Piperonyl butoxide	0.000	1.894	1.909	2.000	0.8%	< 30	94.7%	95.4%	50 - 150	
Prallethrin	0.000	0.370	0.371	0.400	0.5%	< 30	92.4%	92.9%	50 - 150	
Propiconazole	0.000	0.725	0.737	0.800	1.7%	< 30	90.6%	92.2%	50 - 150	
Propoxur	0.000	0.346	0.346	0.400	0.0%	< 30	86.4%	86.4%	50 - 150	
Pyrethrin (Summe)	0.000	0.413	0.393	0.488	4.8%	< 30	84.6%	80.6%	50 - 150	
Pyridaben	0.002	0.294	0.301	0.400	2.6%	< 30	72.9%	74.8%	50 - 150	
Spinosad	0.000	0.352	0.347	0.388	1.7%	< 30	90.8%	89.3%	50 - 150	
Spiromesifen	0.000	0.382	0.384	0.400	0.5%	< 30	95.4%	95.9%	50 - 150	
Spirotetramat	0.000	0.355	0.356	0.400	0.5%	< 30	88.7%	89.1%	50 - 150	
Spiroxamine	0.000	0.714	0.734	0.800	2.8%	< 30	89.3%	91.8%	50 - 150	

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	25-001111/D005.R001
Report Date:	02/13/2025
ORELAP#:	OR100028
Purchase Order:	
Received:	01/31/25 10:41

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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.