Columbia LABORATORIES
A Tentamus Company

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

Report Number: 25-000224/D001.R001
Report Date: 01/17/2025
ORELAP#: OR100028
Purchase Order:
Received: 01/08/25 15:16

This is an amended version of report# 25-000224/D001.R000.
Reason: Updated client information

Customer: Utokia Herb Co.
Product identity: Live D9 Anytime Gummy - Sour Apple
Metrc ID: 3008NC_122424
Metrc Source ID:
Laboratory ID: 25-000224-0001

Summary

Potency:

Analyte per 8g	Result	Limits	Units	Status
CBD per 8g	0.762		mg/8g	
CBD-A per 8g	2.15		mg/8g	
CBN per 8g	0.558		mg/8g	
Δ9-THC per 8g	18.5		mg/8g	

Delta-9-THC-Total per 18.5 mg/8g

CBD-Total per Serving Size 2.65 mg/8g

(Reported in milligrams per serving)

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: Utokia Herb Co.

Product identity: Live D9 Anytime Gummy - Sour Apple
Metrc ID: 3008NC_122424
Metrc Source ID:
Material: Cannabinoid Edible
Sample Date:
Laboratory ID: 25-000224-0001
Evidence of Cooling: No
Temp: 18.1 °C
Lot #: 3008NC_122424
Serving Size #1: 8 g

Sample Results

Potency per 8g **Method:** J AOAC 2015 V98-6 (mod)[þ] **Units** mg/se **Batch:** 2500198 **Analyze:** 1/9/25 11:09:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 8g	0.762		mg/8g	0.253	
CBD-A per 8g[⊥]	2.15		mg/8g	0.253	
CBD-Total per 8g[⊥]	2.65		mg/8g	0.476	
CBG per 8g	< LOQ		mg/8g	0.253	
CBG-A per 8g	< LOQ		mg/8g	0.253	
CBG-Total per 8g	< LOQ		mg/8g	0.473	
CBN per 8g	0.558		mg/8g	0.253	
Δ10-THC-9R per 8g	< LOQ		mg/8g	0.253	
Δ10-THC-9S per 8g	< LOQ		mg/8g	0.253	
Δ10-THC-Total per 8g	< LOQ		mg/8g	0.507	
Δ8-THC per 8g[⊥]	< LOQ		mg/8g	0.253	
Δ9-THC per 8g[⊥]	18.5		mg/8g	0.253	
Δ9-THC-Total per 8g	18.5		mg/8g	0.476	
THC-A per 8g[⊥]	< LOQ		mg/8g	0.253	

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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2500154	01/11/25	AOAC 990.12 (Petrifilm)		
E.coli	< LOQ		cfu/g	10	2500152	01/11/25	AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2500152	01/11/25	AOAC 991.14 (Petrifilm)		
Staphylococcus aureus	< LOQ		cfu/g	10	2500155	01/10/25	AOAC 2003.07		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2500153	01/12/25	AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2500153	01/12/25	AOAC 2014.05 (RAPID)		
Listeria spp.	Negative		/15g		2500158	01/10/25	AOAC 2019.10		
Salmonella spp.⊥	Negative		/15g		2500156	01/10/25	AOAC 2020.02þ		
EHEC including STEC⊥	Negative		/15g		2500157	01/10/25	AOAC RI 121806þ		

Solvents

Method: Residual Solvents by HS-GC-MSþ **Units** µg/g **Batch** 2500215 **Analyze** 01/10/25 03:47 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 (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		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** 2500241 **Analyze** 01/13/25 02:03 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	0.0139	2500239	01/13/25	AOAC 2013.06 (mod.)þ	pass	
Cadmium⊥	< LOQ	0.200	mg/kg	0.0139	2500239	01/13/25	AOAC 2013.06 (mod.)þ	pass	
Lead⊥	< LOQ	0.500	mg/kg	0.0139	2500239	01/13/25	AOAC 2013.06 (mod.)þ	pass	
Mercury⊥	< LOQ	0.100	mg/kg	0.00694	2500239	01/13/25	AOAC 2013.06 (mod.)þ	pass	

Notes:

See attached Mycotoxin results

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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

/15g = Per 15g
cfu/g = Colony forming units per gram
µg/g = Microgram per gram
mg/kg = Milligram per kilogram = parts per million (ppm)
mg/8g = Milligram per 8g
% = Percentage of sample
% wt = µg/g divided by 10,000

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Certificate of Analysis

Provided for quality control or research and development purposes.

Columbia Labs

12423 NE Whitaker Way
Portland, OR 97230
cannahemp@tentamus.com
(503) 254-1794
Lic. #010-1003224D558

Sample: 2501CH0166.0962

Strain: NA
Batch#: ; Batch Size: g
Sample Received: 01/09/2025; Report Created: 01/10/2025
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

000224-01

Ingestible, Soft Chew, Other
Harvest Process Lot: ; METRC Batch: ; METRC Sample:

Mycotoxins

Pass

1366 LCQQQ4 20250108-5

Analyte	LOQ	Limit	Result	Status
	PPB	PPB	PPB	
B1	10.00		<LOQ	Tested
B2	10.00		<LOQ	Tested
G1	10.00		<LOQ	Tested
G2	10.00		<LOQ	Tested
Ochratoxin A	10.00	20.00	<LOQ	Pass
Total Aflatoxins	10.00	20.00	<LOQ	Pass

Method: Modified AOAC 2007.01, Triple Quad analysis; LOQ = Limit of Quantification; PPB = Parts Per Billion; ND = Not Detected; NR = Not Reported; ORELAP ID 4057. ChemHistory estimates its internal laboratory uncertainty acceptance limits to be 7% for sample pesticide results.

5691 SE International Way
Portland, OR
(503) 305-5252
http://chemhistory.com
Lic# OLCC 010-1002015CA5E ORELAP 4057

Patrick Trujillo
Laboratory Director

Values reported relate only to the product tested. ChemHistory makes no claims as to the consumer safety or other risks associated with any detected or non-detected levels of any pesticides or residual solvents. This Certificate shall not be reproduced except in full, without the written approval of ChemHistory. ORELAP accredited ID#4057, ISO 17025 accredited ID# 5487.01, and OLCC Licensed Cannabis Testing Laboratory #010-1002015CA5E.

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cannahemp@tentamus.com
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Lic. #010-1003224D558

Sample: 2501CH0166.0962
Strain: NA
Batch#: ; Batch Size: g
Sample Received: 01/09/2025; Report Created: 01/10/2025
Harvest/Production Date:
Sampling: Random; Environment: Room Temp

000224-01
Ingestible, Soft Chew, Other
Harvest Process Lot: ; METRC Batch: ; METRC Sample:

Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
1366 LCQQQ4 20250108-5	MRMB010925101CN	Mycotoxins	Sample Duplicate

QC Notes
None

Aflatoxins	ICV amount	Blank amount	LCS amount	CCV amount	LCS Expected	LCS % Recovery	Units	LCS Acceptance Limits
B1	998.79	0	225.1	1024.85	200	1.1255	ppb	60-120%
B2	916.42	0	233.94	1041.54	200	1.1697	ppb	60-120%
G1	955.74	0	239	992.82	200	1.195	ppb	60-120%
G2	829.98	0	248.83	991.07	200	1.24415	ppb	60-120%
Ochratoxin A	1033.52	0	265.08	1167.27	200	1.3254	ppb	60-120%

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

Laboratory Quality Control Results

JAOAC2015 V986 — Batch ID: 2500198

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	%Rec	Limits	Evaluation	Notes
CBDVA	2	0.0325	0.0318	%	102	80.0 - 120	Acceptable	
CBDV	2	0.0352	0.0338	%	104	80.0 - 120	Acceptable	
CBE	2	0.0350	0.0341	%	103	80.0 - 120	Acceptable	
CBDA	1	0.0367	0.0354	%	104	90.0 - 110	Acceptable	
CBGA	1	0.0357	0.0346	%	103	80.0 - 120	Acceptable	
CBG	1	0.0354	0.0338	%	105	80.0 - 120	Acceptable	
CBD	1	0.0338	0.0333	%	102	90.0 - 110	Acceptable	
THCV	2	0.0344	0.0339	%	101	80.0 - 120	Acceptable	
d8THCV	2	0.0357	0.0346	%	103	80.0 - 120	Acceptable	
THCVA	2	0.0322	0.0310	%	104	80.0 - 120	Acceptable	
CBN	1	0.0336	0.0325	%	103	80.0 - 120	Acceptable	
exo-THC	2	0.0317	0.0316	%	100	80.0 - 120	Acceptable	
d9THC	1	0.0344	0.0333	%	103	90.0 - 110	Acceptable	
d8THC	1	0.0338	0.0341	%	99.2	90.0 - 110	Acceptable	
9S-d10THC	1	0.0353	0.0352	%	100	80.0 - 120	Acceptable	
CBL	2	0.0313	0.0320	%	97.7	80.0 - 120	Acceptable	
9R-d10THC	1	0.0364	0.0365	%	99.8	80.0 - 120	Acceptable	
CBC	2	0.0328	0.0337	%	97.2	80.0 - 120	Acceptable	
THCA	1	0.0378	0.0355	%	107	90.0 - 110	Acceptable	
CBCA	2	0.0312	0.0327	%	95.5	80.0 - 120	Acceptable	
CBLA	2	0.0337	0.0332	%	102	80.0 - 120	Acceptable	
d9THCP	2	0.0300	0.0324	%	92.6	80.0 - 120	Acceptable	
CBT	2	0.0308	0.0340	%	90.5	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00329	%	< 0.00329	Acceptable	
CBDV	<LOQ	0.00329	%	< 0.00329	Acceptable	
CBE	<LOQ	0.00329	%	< 0.00329	Acceptable	
CBDA	<LOQ	0.00329	%	< 0.00329	Acceptable	
CBGA	<LOQ	0.00329	%	< 0.00329	Acceptable	
CBG	<LOQ	0.00329	%	< 0.00329	Acceptable	
CBD	<LOQ	0.00329	%	< 0.00329	Acceptable	
THCV	<LOQ	0.00329	%	< 0.00329	Acceptable	
d8THCV	<LOQ	0.00329	%	< 0.00329	Acceptable	
THCVA	<LOQ	0.00329	%	< 0.00329	Acceptable	
CBN	<LOQ	0.00329	%	< 0.00329	Acceptable	
exo-THC	<LOQ	0.00329	%	< 0.00329	Acceptable	
d9THC	<LOQ	0.00329	%	< 0.00329	Acceptable	
d8THC	<LOQ	0.00329	%	< 0.00329	Acceptable	
9S-d10THC	<LOQ	0.00329	%	< 0.00329	Acceptable	
CBL	<LOQ	0.00329	%	< 0.00329	Acceptable	
9R-d10THC	<LOQ	0.00329	%	< 0.00329	Acceptable	
CBC	<LOQ	0.00329	%	< 0.00329	Acceptable	
THCA	<LOQ	0.00329	%	< 0.00329	Acceptable	
CBCA	<LOQ	0.00329	%	< 0.00329	Acceptable	
CBLA	<LOQ	0.00329	%	< 0.00329	Acceptable	
d9THCP	<LOQ	0.00329	%	< 0.00329	Acceptable	
CBT	<LOQ	0.00329	%	< 0.00329	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent

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Laboratory Quality Control Results

JAOAC2015 V986 — Batch ID: 2500198
Sample Duplicate — Sample ID: 25-0001690001

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
CBD	0.256	0.254	0.00304	%	0.533	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
d9THC	0.127	0.126	0.00304	%	0.680	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00304	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00304	%	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: 25-000224/D001.R001
Report Date: 01/17/2025
ORELAP#: OR100028
Purchase Order:
Received: 01/08/25 15:16

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Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents — Batch ID: 2500215

Method Blank					Laboratory Control Sample							
Analyte	Result		LOQ	Notes	Result	Spike	Units	%Rec	Limits			Notes
Propane	ND	<	200		519	585	µg/g	88.7	60	-	120	
Isobutane	ND	<	200		653	770	µg/g	84.8	60	-	120	
Butane	ND	<	200		643	769	µg/g	83.6	60	-	120	
2,2-Dimethylpropane	ND	<	200		800	956	µg/g	83.7	60	-	120	
Methanol	ND	<	200		1340	1620	µg/g	82.7	60	-	120	
Ethylene Oxide	ND	<	30		44.5	57.7	µg/g	77.1	60	-	120	
2-Methylbutane	ND	<	200		1390	1640	µg/g	84.8	60	-	120	
Pentane	ND	<	200		1350	1640	µg/g	82.3	60	-	120	
Ethanol	ND	<	200		1220	1620	µg/g	75.3	70	-	130	
Ethyl Ether	ND	<	200		1330	1630	µg/g	81.6	60	-	120	
2,2-Dimethylbutane	ND	<	30		167	212	µg/g	78.8	60	-	120	
Acetone	ND	<	200		1320	1630	µg/g	81.0	60	-	120	
2-Propanol	ND	<	200		1290	1620	µg/g	79.6	60	-	120	
Ethyl Formate	ND	<	500		1130	1600	µg/g	70.6	70	-	130	
Acetonitrile	ND	<	100		381	504	µg/g	75.6	60	-	120	
Methyl Acetate	ND	<	500		1400	1600	µg/g	87.5	70	-	130	
2,3-Dimethylbutane	ND	<	30		157	189	µg/g	83.1	60	-	120	
Dichloromethane	ND	<	60		422	538	µg/g	78.4	60	-	120	
2-Methylpentane	ND	<	30		154	182	µg/g	84.6	60	-	120	
MTBE	ND	<	500		1460	1600	µg/g	91.3	70	-	130	
3-Methylpentane	ND	<	30		152	179	µg/g	84.9	60	-	120	
Hexane	ND	<	30		154	178	µg/g	86.5	60	-	120	
1-Propanol	ND	<	500		1410	1600	µg/g	88.1	70	-	130	
Methylethylketone	ND	<	500		1450	1600	µg/g	90.6	70	-	130	
Ethyl acetate	ND	<	200		1400	1620	µg/g	86.4	60	-	120	
2-Butanol	ND	<	200		1370	1620	µg/g	84.6	60	-	120	
Tetrahydrofuran	ND	<	100		450	511	µg/g	88.1	60	-	120	
Cyclohexane	ND	<	200		1460	1620	µg/g	90.1	60	-	120	
2-methyl-1-propanol	ND	<	500		1500	1600	µg/g	93.8	70	-	130	
Benzene	ND	<	1		4.82	6.03	µg/g	79.9	60	-	120	
Isopropyl Acetate	ND	<	200		1300	1620	µg/g	80.2	60	-	120	
Heptane	ND	<	200		1330	1620	µg/g	82.1	60	-	120	
1-Butanol	ND	<	500		1550	1600	µg/g	96.9	70	-	130	
Propyl Acetate	ND	<	500		1570	1610	µg/g	97.5	70	-	130	
1,4-Dioxane	ND	<	100		442	503	µg/g	87.9	60	-	120	
2-Ethoxyethanol	ND	<	30		136	176	µg/g	77.3	60	-	120	
Methylisobutylketone	ND	<	500		1610	1610	µg/g	100.0	70	-	130	
3-Methyl-1-butanol	ND	<	500		1630	1600	µg/g	101.9	70	-	130	
Ethylene Glycol	ND	<	200		371	501	µg/g	74.1	60	-	120	
Toluene	ND	<	100		500	543	µg/g	92.1	60	-	120	
Isobutyl Acetate	ND	<	500		1640	1600	µg/g	102.5	70	-	130	
1-Pentanol	ND	<	500		1690	1600	µg/g	105.6	70	-	130	
Butyl Acetate	ND	<	500		1640	1600	µg/g	102.5	70	-	130	
Ethylbenzene	ND	<	200		905	983	µg/g	92.1	60	-	120	
m,p-Xylene	ND	<	200		909	1030	µg/g	88.3	60	-	120	
o-Xylene	ND	<	200		924	979	µg/g	94.4	60	-	120	
Cumene	ND	<	30		181	183	µg/g	98.9	60	-	120	
Anisole	ND	<	500		1790	1610	µg/g	111.2	70	-	130	
DMSO	ND	<	500		1660	1600	µg/g	103.8	70	-	130	
1,2-dimethoxyethane	ND	<	50		138	164	µg/g	84.1	70	-	130	
Triethylamine	ND	<	500		1490	1600	µg/g	93.1	70	-	130	
N,N-dimethylformamide	ND	<	150		465	481	µg/g	96.7	70	-	130	
N,N-dimethylacetamide	ND	<	150		562	486	µg/g	115.6	70	-	130	
Pyridine	ND	<	50		172	168	µg/g	102.4	70	-	130	
Sulfolane	ND	<	50		187	165	µg/g	113.3	70	-	130	
1,2-Dichloroethane	ND	<	1		0.976	1	µg/g	97.6	70	-	130	
Chloroform	ND	<	1		1.03	1	µg/g	103.0	70	-	130	
Trichloroethylene	ND	<	1		1.06	1	µg/g	106.0	70	-	130	
1,1-Dichloroethane	ND	<	1		0.959	1	µg/g	95.9	70	-	130	

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QC- Sample Duplicate — Sample ID: 25-000134-0001

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

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 &EN 15662 | Units: mg/Kg | Batch ID: 2500241

Method Blank				Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits		Notes
Abamectin	0.000	< 0.250		0.811	1.000	81.1	50.0	150	
Acephate	0.000	< 0.200		0.650	0.800	81.2	60.0	120	
Acequinocyl	0.086	< 1.000		2.958	4.000	74.0	40.0	160	
Acetamiprid	0.000	< 0.100		0.332	0.400	82.9	60.0	120	
Aldicarb	0.000	< 0.200		0.636	0.800	79.6	60.0	120	
Azoxystrobin	0.000	< 0.100		0.324	0.400	80.9	60.0	120	
Bifenazate	0.000	< 0.100		0.371	0.400	92.7	60.0	120	
Bifenthrin	0.000	< 0.100		0.325	0.400	81.2	50.0	150	
Boscalid	0.000	< 0.200		0.684	0.800	85.5	60.0	120	
Carbaryl	0.000	< 0.100		0.324	0.400	80.9	60.0	120	
Carbofuran	0.000	< 0.100		0.329	0.400	82.2	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.334	0.400	83.6	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.647	2.000	82.3	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.321	0.400	80.1	60.0	120	
Clofentezine	0.000	< 0.100		0.268	0.400	67.1	60.0	120	
Cyfluthrin	0.000	< 0.500		1.651	2.000	82.5	50.0	150	
Cypermethrin	0.000	< 0.500		1.581	2.000	79.0	50.0	150	
Daminozide	0.000	< 0.500		0.523	2.000	26.2	60.0	120	Q7
Diazinon	0.000	< 0.100		0.349	0.400	87.3	60.0	120	
Dichlorvos	0.000	< 0.500		1.590	2.000	79.5	60.0	120	
Dimethoate	0.000	< 0.100		0.336	0.400	84.1	60.0	120	
Ethoprophos	0.000	< 0.100		0.325	0.400	81.3	60.0	120	
Etofenprox	0.000	< 0.200		0.635	0.800	79.4	50.0	150	
Etoxazole	0.000	< 0.100		0.331	0.400	82.7	60.0	120	
Fenoxycarb	0.000	< 0.100		0.335	0.400	83.8	60.0	120	
Fenpyroximate	0.000	< 0.200		0.630	0.800	78.7	60.0	120	
Fipronil	0.000	< 0.200		0.653	0.800	81.7	60.0	120	
Flonicamid	0.000	< 0.250		0.840	1.000	84.0	60.0	120	
Fludioxonil	0.000	< 0.200		0.611	0.800	76.3	50.0	150	
Hexythiazox	0.000	< 0.250		0.830	1.000	83.0	60.0	120	
Imazalil	0.000	< 0.100		0.362	0.400	90.5	60.0	120	
Imidacloprid	0.000	< 0.200		0.665	0.800	83.1	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.695	0.800	86.9	60.0	120	
Malathion	0.000	< 0.100		0.349	0.400	87.2	60.0	120	
Metalaxyl	0.000	< 0.100		0.354	0.400	88.5	60.0	120	
Methiocarb	0.000	< 0.100		0.321	0.400	80.2	60.0	120	
Methomyl	0.000	< 0.200		0.673	0.800	84.1	60.0	120	
MGK-264	0.000	< 0.100		0.323	0.400	80.6	50.0	150	
Myclobutanil	0.000	< 0.100		0.326	0.400	81.4	60.0	120	
Naled	0.000	< 0.250		0.772	1.000	77.2	50.0	150	
Oxamyl	0.000	< 0.500		1.749	2.000	87.4	60.0	120	
Padobutrazole	0.000	< 0.200		0.684	0.800	85.5	60.0	120	
Parathion-Methyl	0.000	< 0.100		0.358	0.400	89.5	50.0	150	
Permethrin	0.000	< 0.100		0.336	0.400	84.1	50.0	150	
Phosmet	0.000	< 0.100		0.342	0.400	85.5	50.0	150	
Piperonyl butoxide	0.000	< 0.500		1.668	2.000	83.4	60.0	120	
Prallethrin	0.000	< 0.100		0.341	0.400	85.2	60.0	120	
Propiconazole	0.000	< 0.200		0.680	0.800	85.0	60.0	120	
Propoxur	0.000	< 0.100		0.321	0.400	80.3	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.376	0.488	77.1	60.0	120	
Pyridaben	0.000	< 0.100		0.315	0.400	78.7	50.0	150	
Spinosad	0.000	< 0.100		0.320	0.388	82.5	50.0	150	
Spiromesifen	0.000	< 0.100		0.339	0.400	84.8	60.0	120	
Spirotetramat	0.000	< 0.100		0.335	0.400	83.8	60.0	120	
Spiroxamine	0.000	< 0.200		0.699	0.800	87.3	60.0	120	

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 &EN 15662 | Units: mg/Kg | Batch ID: 2500241

Matrix Spike/Matrix Spike Duplicate Recoveries | Sample ID: 25-0002220001

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.826	0.818	1.000	1.0%	< 30	82.6%	81.8%	50 - 150	
Acephate	0.000	0.646	0.637	0.800	1.3%	< 30	80.7%	79.7%	50 - 150	
Acequinocyl	0.094	2.725	3.467	4.000	24.7%	< 30	65.8%	84.3%	50 - 150	
Acetamiprid	0.000	0.326	0.335	0.400	2.5%	< 30	81.6%	83.7%	50 - 150	
Aldicarb	0.000	0.637	0.633	0.800	0.6%	< 30	79.6%	79.2%	50 - 150	
Azoxystrobin	0.000	0.310	0.314	0.400	1.5%	< 30	77.4%	78.6%	50 - 150	
Bifenazate	0.000	0.365	0.369	0.400	1.0%	< 30	91.2%	92.2%	50 - 150	
Bifenthrin	0.000	0.317	0.334	0.400	5.2%	< 30	79.3%	83.5%	50 - 150	
Boscalid	0.000	0.656	0.675	0.800	2.8%	< 30	82.0%	84.4%	50 - 150	
Carbaryl	0.000	0.307	0.321	0.400	4.2%	< 30	76.9%	80.2%	50 - 150	
Carbofuran	0.000	0.331	0.328	0.400	1.1%	< 30	82.8%	81.9%	50 - 150	
Chlorantraniliprole	0.000	0.322	0.329	0.400	2.1%	< 30	80.4%	82.2%	50 - 150	
Chlorfenapyr	0.000	1.833	1.403	2.000	26.6%	< 30	91.7%	70.2%	50 - 150	
Chlorpyrifos	0.000	0.311	0.313	0.400	0.9%	< 30	77.6%	78.3%	50 - 150	
Clofentezine	0.000	0.234	0.271	0.400	14.6%	< 30	58.5%	67.7%	50 - 150	
Cyfluthrin	0.000	1.397	1.453	2.000	3.9%	< 30	69.8%	72.7%	30 - 150	
Cypermethrin	0.000	1.649	1.645	2.000	0.3%	< 30	82.5%	82.3%	50 - 150	
Daminozide	0.000	0.513	0.520	2.000	1.5%	< 30	25.6%	26.0%	30 - 150	Q
Diazinon	0.000	0.329	0.345	0.400	4.7%	< 30	82.3%	86.3%	50 - 150	
Dichlorvos	0.000	1.565	1.645	2.000	5.0%	< 30	78.2%	82.2%	50 - 150	
Dimethoate	0.000	0.334	0.351	0.400	5.0%	< 30	83.5%	87.8%	50 - 150	
Ethoprophos	0.000	0.304	0.324	0.400	6.3%	< 30	76.0%	80.9%	50 - 150	
Etofenprox	0.000	0.611	0.624	0.800	2.2%	< 30	76.3%	78.0%	50 - 150	
Etoxazole	0.000	0.295	0.302	0.400	2.5%	< 30	73.7%	75.6%	50 - 150	
Fenoxycarb	0.000	0.329	0.346	0.400	5.1%	< 30	82.1%	86.4%	50 - 150	
Fenpyroximate	0.000	0.616	0.617	0.800	0.2%	< 30	77.0%	77.1%	50 - 150	
Fipronil	0.000	0.595	0.621	0.800	4.3%	< 30	74.4%	77.6%	50 - 150	
Flonicamid	0.000	0.824	0.865	1.000	4.8%	< 30	82.4%	86.5%	50 - 150	
Fludioxonil	0.000	0.602	0.629	0.800	4.3%	< 30	75.3%	78.6%	50 - 150	
Hexythiazox	0.000	1.018	1.052	1.000	3.2%	< 30	101.8%	105.2%	50 - 150	
Imazalil	0.000	0.350	0.353	0.400	0.8%	< 30	87.4%	88.1%	50 - 150	
Imidacloprid	0.000	0.614	0.632	0.800	3.0%	< 30	76.7%	79.1%	50 - 150	
Kresoxim-methyl	0.000	0.657	0.696	0.800	5.8%	< 30	82.1%	87.0%	50 - 150	
Malathion	0.000	0.339	0.357	0.400	5.2%	< 30	84.7%	89.3%	50 - 150	
Metalaxyl	0.000	0.332	0.334	0.400	0.5%	< 30	82.9%	83.4%	50 - 150	
Methiocarb	0.000	0.306	0.315	0.400	3.0%	< 30	76.4%	78.7%	50 - 150	
Methomyl	0.000	0.662	0.669	0.800	1.1%	< 30	82.7%	83.6%	50 - 150	
MGK-264	0.000	0.320	0.335	0.400	4.5%	< 30	80.1%	83.7%	50 - 150	
Myclobutanil	0.000	0.333	0.346	0.400	3.7%	< 30	83.3%	86.4%	50 - 150	
Naled	0.000	0.738	0.771	1.000	4.3%	< 30	73.8%	77.1%	50 - 150	
Oxamyl	0.000	1.736	1.724	2.000	0.7%	< 30	86.8%	86.2%	50 - 150	
Padobutrazole	0.000	0.667	0.676	0.800	1.4%	< 30	83.4%	84.5%	50 - 150	
Parathion-Methyl	0.000	0.323	0.332	0.400	2.8%	< 30	80.8%	83.1%	30 - 150	
Permethrin	0.000	0.338	0.348	0.400	2.7%	< 30	84.6%	86.9%	50 - 150	
Phosmet	0.000	0.316	0.337	0.400	6.5%	< 30	78.9%	84.2%	50 - 150	
Piperonyl butoxide	0.000	1.638	1.749	2.000	6.6%	< 30	81.9%	87.5%	50 - 150	
Prallethrin	0.000	0.323	0.333	0.400	2.9%	< 30	80.8%	83.2%	50 - 150	
Propiconazole	0.000	0.658	0.684	0.800	3.8%	< 30	82.3%	85.5%	50 - 150	
Propoxur	0.000	0.322	0.325	0.400	1.0%	< 30	80.4%	81.2%	50 - 150	
Pyrethrin (Summe)	0.000	0.391	0.392	0.488	0.3%	< 30	80.1%	80.3%	50 - 150	
Pyridaben	0.000	0.358	0.364	0.400	1.7%	< 30	89.6%	91.1%	50 - 150	
Spinosad	0.000	0.296	0.289	0.388	2.4%	< 30	76.3%	74.5%	50 - 150	
Spiromesifen	0.000	0.225	0.232	0.400	3.0%	< 30	56.3%	58.0%	50 - 150	
Spirotetramat	0.000	0.325	0.343	0.400	5.2%	< 30	81.3%	85.7%	50 - 150	
Spiroxamine	0.000	0.654	0.686	0.800	4.8%	< 30	81.7%	85.7%	50 - 150	

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	25-000224/D001.R001
Report Date:	01/17/2025
ORELAP#:	OR100028
Purchase Order:	
Received:	01/08/25 15:16

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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.