Columbia LABORATORIES
A Tentamus Company

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

Report Number: 25-011744/D004.R001
Report Date: 10/21/2025
ORELAP#: OR100028
Purchase Order:
Received: 10/01/25 09:46

This is an amended version of report# 25-011744/D004.R000.
Reason: Updated client information.

Customer: Utokia Herb Co.
13639 S Union Hall Rd
Canby Oregon 97013
United States of America (USA)

Product identity: Live D9 Caramel, Anytime, Naturally Derived
Metrc ID: .
Material: Cannabinoid Edible
Laboratory ID: 25-011744-0002
Evidence of Cooling: No
Temp: 20.9 °C
Lot #: 5004SH_100125
Serving Size #1: 18 g

Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)[b] **Batch:** 2507279 **Analyze:** 10/03/25

Analyte	Result	Units	LOQ	Notes	Serving Size #1 Result	Units	LOQ
CBD[⊥]	< LOQ	%	0.0070		< LOQ	mg/18g	1.3
CBD-A[⊥]	0.0113	%	0.0070		2.04	mg/18g	1.3
CBD-Total[⊥]	< LOQ	%	0.0131		< LOQ	mg/18g	2.36
CBG	0.00714	%	0.0070		1.29	mg/18g	1.3
CBG-A	< LOQ	%	0.0070		< LOQ	mg/18g	1.3
CBG-Total	< LOQ	%	0.0130		< LOQ	mg/18g	2.34
CBN	< LOQ	%	0.0070		< LOQ	mg/18g	1.3
Δ10-THC-9R	< LOQ	%	0.0070		< LOQ	mg/18g	1.3
Δ10-THC-9S	< LOQ	%	0.0070		< LOQ	mg/18g	1.3
Δ10-THC-Total	< LOQ	%	0.0139		< LOQ	mg/18g	2.51
Δ8-THC[⊥]	< LOQ	%	0.0070		< LOQ	mg/18g	1.3
Δ9-THC[⊥]	0.223	%	0.0070		40.1	mg/18g	1.3
Δ9-THC-A[⊥]	< LOQ	%	0.0070		< LOQ	mg/18g	1.3
Δ9-THC-Total[⊥]	0.223	%	0.0131		40.1	mg/18g	2.36
Total Cannabinoids	0.241	%			43.4	mg/18g	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Salmonella spp.[⊥]	Negative		/15g		2507363	10/10/25	AOAC 2020.02[b]		
EHEC including STEC[⊥]	Negative		/15g		2507364	10/10/25	AOAC 2020.06[b]		

Solvents **Method:** Residual Solvents by HS-GC-MS[b] **Units** µg/g **Batch** 2507405 **Analyze:** 10/10/25

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		

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Solvents

Method: Residual Solvents by HS-GC-MS[b] **Units** µg/g **Batch** 2507405 **Analyze:** 10/10/25

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
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	

Pesticides

Method: AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2507416 **Analyze:** 10/10/25

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		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	

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Pesticides

Method: AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2507416 **Analyze:** 10/10/25

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
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	0.0187	2507417	10/10/25	AOAC 2013.06 (mod.)[b]	pass	
Cadmium ⊥	< LOQ	0.200	mg/kg	0.0187	2507417	10/10/25	AOAC 2013.06 (mod.)[b]	pass	
Lead ⊥	< LOQ	0.500	mg/kg	0.0187	2507417	10/10/25	AOAC 2013.06 (mod.)[b]	pass	
Mercury ⊥	< LOQ	0.100	mg/kg	0.00935	2507417	10/10/25	AOAC 2013.06 (mod.)[b]	pass	

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Aflatoxin B1 ⊥	< LOQ		µg/kg	5.00	2507448	10/13/25	Mycotoxins by AOAC 2007.01		
Aflatoxin B2 ⊥	< LOQ		µg/kg	5.00	2507448	10/13/25	Mycotoxins by AOAC 2007.01		
Aflatoxin G1 ⊥	< LOQ		µg/kg	5.00	2507448	10/13/25	Mycotoxins by AOAC 2007.01		
Aflatoxin G2 ⊥	< LOQ		µg/kg	5.00	2507448	10/13/25	Mycotoxins by AOAC 2007.01		
Ochratoxin A	< LOQ	20.0	µg/kg	5.00	2507448	10/13/25	Mycotoxins by AOAC 2007.01[b]	pass	
Total Aflatoxins	< LOQ	20.0	µg/kg	20.0		10/13/25	Mycotoxins by AOAC 2007.01[b]	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.

Threshold Note: OAR 333-007-0400

ᵇ = ISO/IEC 17025:2017 accredited method.
⊥ = TNI accredited analyte.

Units of Measure

/15g = Per 15g
µg/g = Microgram per gram
µg/kg = Micrograms per kilogram = parts per billion (ppb)
mg/kg = Milligram per kilogram = parts per million (ppm)
% = Percentage of sample
mg/18g = Milligram per 18g
% wt = µg/g divided by 10,000

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Revision: 4 Document ID: 7148
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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2507279**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0281	0.0274	%	102	80.0 - 120	Acceptable	
CBDV	2	0.0296	0.0288	%	103	80.0 - 120	Acceptable	
CBE	2	0.0316	0.0312	%	101	80.0 - 120	Acceptable	
CBDA	1	0.0282	0.0257	%	110	90.0 - 110	Acceptable	
CBGA	1	0.0299	0.0292	%	102	80.0 - 120	Acceptable	
CBG	1	0.0273	0.0272	%	100	80.0 - 120	Acceptable	
CBD	1	0.0287	0.0270	%	106	90.0 - 110	Acceptable	
THCV	2	0.0302	0.0296	%	102	80.0 - 120	Acceptable	
d8THCV	2	0.0304	0.0298	%	102	80.0 - 120	Acceptable	
THCVA	2	0.0269	0.0260	%	103	80.0 - 120	Acceptable	
CBN	1	0.0288	0.0274	%	105	80.0 - 120	Acceptable	
exo-THC	2	0.0274	0.0272	%	101	80.0 - 120	Acceptable	
d9THC	1	0.0315	0.0295	%	107	90.0 - 110	Acceptable	
d8THC	1	0.0280	0.0271	%	103	90.0 - 110	Acceptable	
9S-d10THC	1	0.0319	0.0303	%	105	80.0 - 120	Acceptable	
CBL	2	0.0294	0.0282	%	104	80.0 - 120	Acceptable	
9R-d10THC	1	0.0318	0.0301	%	105	80.0 - 120	Acceptable	
CBC	2	0.0302	0.0298	%	102	80.0 - 120	Acceptable	
THCA	1	0.0334	0.0317	%	105	90.0 - 110	Acceptable	
CBCA	2	0.0288	0.0279	%	103	80.0 - 120	Acceptable	
CBLA	2	0.0282	0.0277	%	102	80.0 - 120	Acceptable	
d9THCP	2	0.0278	0.0271	%	103	80.0 - 120	Acceptable	
CBT	2	0.0301	0.0291	%	103	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBDV	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBE	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBDA	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBGA	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBG	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBD	<LOQ	0.00709	%	< 0.00709	Acceptable	
THCV	<LOQ	0.00709	%	< 0.00709	Acceptable	
d8THCV	<LOQ	0.00709	%	< 0.00709	Acceptable	
THCVA	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBN	<LOQ	0.00709	%	< 0.00709	Acceptable	
exo-THC	<LOQ	0.00709	%	< 0.00709	Acceptable	
d9THC	<LOQ	0.00709	%	< 0.00709	Acceptable	
d8THC	<LOQ	0.00709	%	< 0.00709	Acceptable	
9S-d10THC	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBL	<LOQ	0.00709	%	< 0.00709	Acceptable	
9R-d10THC	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBC	<LOQ	0.00709	%	< 0.00709	Acceptable	
THCA	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBCA	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBLA	<LOQ	0.00709	%	< 0.00709	Acceptable	
d9THCP	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBT	<LOQ	0.00709	%	< 0.00709	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

J AOAC 2015 V98-6 **Batch ID: 2507279**

Sample Duplicate Sample ID: **25-011637-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00707	%	NA	< 10	Acceptable	
CBGA	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBG	0.00866	0.00814	0.00707	%	6.19	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00707	%	NA	< 10	Acceptable	
THCV	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
d9THC	0.269	0.268	0.00707	%	0.400	< 10	Acceptable	
d8THC	<LOQ	<LOQ	0.00707	%	NA	< 10	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00707	%	NA	< 10	Acceptable	
CBCA	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	

Abbreviations

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

Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2507405

Method Blank					Laboratory Control Sample					
Analyte	Result		LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
1,2-Dichloroethene, trans-	ND	<	1		0.994	1	µg/g	99.4	50-150	
1,2-dimethoxyethane	ND	<	50		175	164	µg/g	106.7	50-150	
1,4-Dioxane	ND	<	100		393	496	µg/g	79.2	60-120	
2,2-Dimethylbutane	ND	<	30		162	172	µg/g	94.2	60-120	
2,2-Dimethylpropane	ND	<	200		601	956	µg/g	62.9	60-120	
2,3-Dimethylbutane	ND	<	30		184	173	µg/g	106.4	60-120	
2-Butanol	ND	<	200		1610	1610	µg/g	100.0	60-120	
2-Ethoxyethanol	ND	<	30		174	177	µg/g	98.3	60-120	
2-Methylbutane	ND	<	200		1680	1630	µg/g	103.1	60-120	
2-Methylpentane	ND	<	30		111	164	µg/g	67.7	60-120	
2-Propanol	ND	<	200		1550	1610	µg/g	96.3	60-120	
3-Methyl-1-butanol	ND	<	500		1710	1660	µg/g	103.0	50-150	
3-Methylpentane	ND	<	30		168	183	µg/g	91.8	60-120	
Acetone	ND	<	200		1550	1620	µg/g	95.7	60-120	
Acetonitrile	ND	<	100		518	493	µg/g	105.1	60-120	
Benzene	ND	<	1		0.845	1	µg/g	84.5	50-150	
Butane	ND	<	200		576	769	µg/g	74.9	60-120	
Butyl Acetate	ND	<	500		1700	1650	µg/g	103.0	50-150	
Carbon Tetrachloride	ND	<	1		0.753	1	µg/g	75.3	50-150	
Chlorobenzene	ND	<	1		0.699	1	µg/g	69.9	50-150	
Chloroform	ND	<	1		0.82	1	µg/g	82.0	50-150	
Cumene	ND	<	30		123	174	µg/g	70.7	60-120	
Cyclohexane	ND	<	200		1290	1630	µg/g	79.1	60-120	
Dichloromethane	ND	<	1		0.948	1	µg/g	94.8	50-150	
DMSO	ND	<	500		1550	1660	µg/g	93.4	50-150	
Ethanol	ND	<	200		1690	1630	µg/g	103.7	60-120	
Ethyl acetate	ND	<	200		1600	1630	µg/g	98.2	60-120	
Ethyl Ether	ND	<	200		1500	1620	µg/g	92.6	60-120	
Ethylbenzene	ND	<	200		746	976	µg/g	76.4	60-120	
Ethylene Glycol	ND	<	200		399	484	µg/g	82.4	60-120	
Ethylene Oxide	ND	<	1		1.18	1	µg/g	118.0	50-150	
Heptane	ND	<	200		1530	1600	µg/g	95.6	60-120	
Hexane	ND	<	30		160	172	µg/g	93.0	60-120	
Isobutane	ND	<	200		571	770	µg/g	74.2	60-120	
Isopropyl Acetate	ND	<	200		1500	1610	µg/g	93.2	60-120	
m,p-Xylene	ND	<	200		751	988	µg/g	76.0	60-120	
Methanol	ND	<	200		1750	1650	µg/g	106.1	60-120	
Methyl Acetate	ND	<	500		1700	1650	µg/g	103.0	50-150	
Methylethylketone	ND	<	500		1690	1650	µg/g	102.4	50-150	
N,N-dimethylformamide	ND	<	150		586	532	µg/g	110.2	50-150	
o-Xylene	ND	<	200		717	975	µg/g	73.5	60-120	
Pentane	ND	<	200		1630	1610	µg/g	101.2	60-120	
Propane	ND	<	200		435	585	µg/g	74.4	60-120	
Propyl Acetate	ND	<	500		1690	1660	µg/g	101.8	50-150	
Tetrahydrofuran	ND	<	100		411	486	µg/g	84.6	60-120	
Toluene	ND	<	100		375	485	µg/g	77.3	60-120	

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

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QC - Sample Duplicate **Sample ID: 25-011912-0001**

Analyte	SR Result	SD Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
1,2-Dichloroethene, trans-	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	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	
Carbon Tetrachloride	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chlorobenzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	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	
DMSO	ND	ND	500	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	ND	ND	200	µg/g	0.0	< 20	Acceptable	
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	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methylethylketone	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	
Propyl Acetate	ND	ND	500	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	

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:** 2507416

Method Blank				Laboratory Control Sample					
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**		**Notes**
Abamectin	0.000	< 0.250		0.935	1.000	93.5	50.0	150	
Acephate	0.009	< 0.200		0.684	0.800	85.4	60.0	120	
Acequinocyl	0.077	< 1.000		2.871	4.000	71.8	40.0	160	
Acetamiprid	0.000	< 0.100		0.351	0.400	87.7	60.0	120	
Aldicarb	0.000	< 0.200		0.715	0.800	89.4	60.0	120	
Azoxystrobin	0.006	< 0.100		0.348	0.400	87.0	60.0	120	
Bifenazate	0.000	< 0.100		0.360	0.400	90.1	60.0	120	
Bifenthrin	0.002	< 0.100		0.351	0.400	87.8	50.0	150	
Boscalid	0.007	< 0.200		0.693	0.800	86.6	60.0	120	
Carbaryl	0.003	< 0.100		0.357	0.400	89.2	60.0	120	
Carbofuran	0.002	< 0.100		0.360	0.400	90.1	60.0	120	
Chlorantraniliprole	0.002	< 0.100		0.343	0.400	85.7	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.511	2.000	75.6	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.344	0.400	85.9	60.0	120	
Clofentezine	0.006	< 0.100		0.340	0.400	84.9	60.0	120	
Cyfluthrin	0.027	< 0.500		1.736	2.000	86.8	50.0	150	
Cypermethrin	0.005	< 0.500		1.719	2.000	85.9	50.0	150	
Daminozide	0.000	< 0.500		0.704	2.000	***35.2***	60.0	120	**Q7**
Diazinon	0.005	< 0.100		0.351	0.400	87.7	60.0	120	
Dichlorvos	0.027	< 0.500		1.728	2.000	86.4	60.0	120	
Dimethoate	0.003	< 0.100		0.351	0.400	87.8	60.0	120	
Ethoprophos	0.002	< 0.100		0.349	0.400	87.3	60.0	120	
Etofenprox	0.004	< 0.200		0.670	0.800	83.7	50.0	150	
Etoxazole	0.004	< 0.100		0.338	0.400	84.5	60.0	120	
Fenoxycarb	0.005	< 0.100		0.346	0.400	86.4	60.0	120	
Fenpyroximate	0.007	< 0.200		0.665	0.800	83.1	60.0	120	
Fipronil	0.001	< 0.200		0.741	0.800	92.7	60.0	120	
Flonicamid	0.000	< 0.250		0.881	1.000	88.1	60.0	120	
Fludioxonil	0.006	< 0.200		0.761	0.800	95.1	50.0	150	
Hexythiazox	0.009	< 0.250		0.820	1.000	82.0	60.0	120	
Imazalil	0.008	< 0.100		0.360	0.400	90.1	60.0	120	
Imidacloprid	0.012	< 0.200		0.682	0.800	85.2	60.0	120	
Kresoxim-methyl	0.007	< 0.200		0.745	0.800	93.1	60.0	120	
Malathion	0.005	< 0.100		0.348	0.400	87.0	60.0	120	
Metalaxyl	0.004	< 0.100		0.363	0.400	90.8	60.0	120	
Methiocarb	0.004	< 0.100		0.348	0.400	87.1	60.0	120	
Methomyl	0.010	< 0.200		0.714	0.800	89.3	60.0	120	
MGK-264	0.001	< 0.100		0.352	0.400	87.9	50.0	150	
Myclobutanil	0.004	< 0.100		0.368	0.400	92.0	60.0	120	
Naled	0.007	< 0.250		0.893	1.000	89.3	50.0	150	
Oxamyl	0.011	< 0.500		1.746	2.000	87.3	60.0	120	
Paclobutrazole	0.003	< 0.200		0.704	0.800	88.0	60.0	120	
Parathion-Methyl	0.012	< 0.100		0.310	0.400	77.6	50.0	150	
Permethrin	0.020	< 0.100		0.372	0.400	93.1	50.0	150	
Phosmet	0.000	< 0.100		0.348	0.400	86.9	50.0	150	
Piperonyl butoxide	0.000	< 0.500		1.842	2.000	92.1	60.0	120	
Prallethrin	0.000	< 0.100		0.352	0.400	88.1	60.0	120	
Propiconazole	0.002	< 0.200		0.709	0.800	88.6	60.0	120	
Propoxur	0.001	< 0.100		0.355	0.400	88.8	60.0	120	
Pyrethrin (Summe)	0.004	< 0.100		0.442	0.488	90.7	60.0	120	
Pyridaben	0.003	< 0.100		0.334	0.400	83.5	50.0	150	
Spinosad	0.006	< 0.100		0.408	0.388	105.3	50.0	150	
Spiromesifen	0.000	< 0.100		0.351	0.400	87.7	60.0	120	
Spirotetramat	0.001	< 0.100		0.352	0.400	87.9	60.0	120	
Spiroxamine	0.008	< 0.200		0.736	0.800	92.0	60.0	120	

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 **Units:** mg/Kg **Batch ID:** 2507416

Matrix Spike/Matrix Spike Duplicate Recoveries **Sample ID: 25-011744-0002**

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.856	0.884	1.000	3.2%	< 30	85.6%	88.4%	50 - 150	
Acephate	0.004	0.639	0.629	0.800	1.6%	< 30	79.4%	78.1%	50 - 150	
Acequinocyl	0.076	3.127	3.235	4.000	3.5%	< 30	76.3%	79.0%	50 - 150	
Acetamiprid	0.003	0.331	0.328	0.400	1.1%	< 30	82.1%	81.3%	50 - 150	
Aldicarb	0.000	0.672	0.674	0.800	0.3%	< 30	83.9%	84.2%	50 - 150	
Azoxystrobin	0.006	0.332	0.331	0.400	0.2%	< 30	81.6%	81.4%	50 - 150	
Bifenazate	0.003	0.358	0.348	0.400	2.9%	< 30	88.8%	86.3%	50 - 150	
Bifenthrin	0.001	0.375	0.356	0.400	5.1%	< 30	93.4%	88.7%	50 - 150	
Boscalid	0.007	0.671	0.697	0.800	3.7%	< 30	83.1%	86.2%	50 - 150	
Carbaryl	0.003	0.338	0.342	0.400	1.2%	< 30	83.7%	84.6%	50 - 150	
Carbofuran	0.002	0.339	0.341	0.400	0.6%	< 30	84.3%	84.8%	50 - 150	
Chlorantraniliprole	0.002	0.337	0.338	0.400	0.1%	< 30	83.9%	84.0%	50 - 150	
Chlorfenapyr	0.000	1.494	1.547	2.000	3.5%	< 30	74.7%	77.4%	50 - 150	
Chlorpyrifos	0.000	0.342	0.364	0.400	6.0%	< 30	85.5%	90.8%	50 - 150	
Clofentezine	0.006	0.338	0.332	0.400	1.6%	< 30	82.9%	81.6%	50 - 150	
Cyfluthrin	0.015	1.642	1.527	2.000	7.3%	< 30	81.4%	75.6%	30 - 150	
Cypermethrin	0.006	1.849	1.726	2.000	6.9%	< 30	92.1%	86.0%	50 - 150	
Daminozide	0.000	0.653	0.635	2.000	2.9%	< 30	32.7%	31.7%	30 - 150	
Diazinon	0.005	0.340	0.339	0.400	0.5%	< 30	83.9%	83.5%	50 - 150	
Dichlorvos	0.026	1.662	1.631	2.000	1.9%	< 30	81.8%	80.2%	50 - 150	
Dimethoate	0.003	0.336	0.339	0.400	0.7%	< 30	83.3%	83.9%	50 - 150	
Ethoprophos	0.002	0.336	0.348	0.400	3.6%	< 30	83.4%	86.5%	50 - 150	
Etofenprox	0.003	0.705	0.642	0.800	9.4%	< 30	87.7%	79.8%	50 - 150	
Etoxazole	0.004	0.340	0.348	0.400	2.4%	< 30	84.0%	86.0%	50 - 150	
Fenoxycarb	0.005	0.337	0.337	0.400	0.1%	< 30	83.1%	83.1%	50 - 150	
Fenpyroximate	0.007	0.694	0.627	0.800	10.1%	< 30	85.8%	77.5%	50 - 150	
Fipronil	0.001	0.706	0.679	0.800	4.0%	< 30	88.2%	84.8%	50 - 150	
Flonicamid	0.010	0.828	0.826	1.000	0.3%	< 30	81.8%	81.6%	50 - 150	
Fludioxonil	0.006	0.714	0.719	0.800	0.7%	< 30	88.5%	89.1%	50 - 150	
Hexythiazox	0.008	0.907	0.883	1.000	2.7%	< 30	89.9%	87.5%	50 - 150	
Imazalil	0.008	0.343	0.347	0.400	1.4%	< 30	83.8%	84.9%	50 - 150	
Imidacloprid	0.012	0.689	0.672	0.800	2.4%	< 30	84.5%	82.5%	50 - 150	
Kresoxim-methyl	0.006	0.704	0.693	0.800	1.6%	< 30	87.3%	85.9%	50 - 150	
Malathion	0.004	0.355	0.350	0.400	1.5%	< 30	87.6%	86.4%	50 - 150	
Metalaxyl	0.003	0.332	0.347	0.400	4.4%	< 30	82.2%	85.9%	50 - 150	
Methiocarb	0.004	0.337	0.341	0.400	1.3%	< 30	83.2%	84.4%	50 - 150	
Methomyl	0.010	0.695	0.684	0.800	1.7%	< 30	85.7%	84.2%	50 - 150	
MGK-264	0.000	0.351	0.354	0.400	1.0%	< 30	87.7%	88.6%	50 - 150	
Myclobutanil	0.004	0.341	0.340	0.400	0.2%	< 30	84.3%	84.1%	50 - 150	
Naled	0.007	0.864	0.891	1.000	3.1%	< 30	85.7%	88.4%	50 - 150	
Oxamyl	0.010	1.689	1.654	2.000	2.1%	< 30	84.0%	82.2%	50 - 150	
Paclobutrazole	0.003	0.697	0.676	0.800	3.0%	< 30	86.8%	84.2%	50 - 150	
Parathion-Methyl	0.000	0.337	0.373	0.400	10.0%	< 30	84.4%	93.2%	30 - 150	
Permethrin	0.000	0.409	0.392	0.400	4.3%	< 30	102.3%	98.0%	50 - 150	
Phosmet	0.000	0.343	0.346	0.400	0.9%	< 30	85.7%	86.4%	50 - 150	
Piperonyl butoxide	0.000	1.814	1.851	2.000	2.0%	< 30	90.7%	92.5%	50 - 150	
Prallethrin	0.000	0.349	0.341	0.400	2.2%	< 30	87.1%	85.1%	50 - 150	
Propiconazole	0.002	0.696	0.689	0.800	1.0%	< 30	86.8%	85.9%	50 - 150	
Propoxur	0.001	0.336	0.340	0.400	1.4%	< 30	83.6%	84.8%	50 - 150	
Pyrethrin (Summe)	0.005	0.426	0.397	0.488	7.0%	< 30	86.2%	80.3%	50 - 150	
Pyridaben	0.003	0.361	0.352	0.400	2.6%	< 30	89.6%	87.3%	50 - 150	
Spinosad	0.000	0.372	0.373	0.388	0.3%	< 30	95.8%	96.1%	50 - 150	
Spiromesifen	0.000	0.340	0.336	0.400	1.2%	< 30	84.9%	84.0%	50 - 150	
Spirotetramat	0.001	0.349	0.340	0.400	2.7%	< 30	87.0%	84.7%	50 - 150	
Spiroxamine	0.008	0.677	0.716	0.800	5.7%	< 30	83.7%	88.6%	50 - 150	

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Explanation of QC Flag Comments:

Code	Explanation
A	This analysis was performed on a VOA sample containing headspace.
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.
B3	Dilution water blank of BOD was above the recommended limit; associated samples could be high biased.
CP	Client provided value.
CV	Calculated value.
E	Analyte concentration exceeds the calibration range, results are estimated.
E1	Estimated value.
E2	Estimated value. Matrix interference observed.
H	Holding time was exceeded.
J	Estimated value, above the detection limit and below the LOQ
I	Insufficient sample received to meet method requirements.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
LOQ3	< LOQ could be due to potential inhibition.
N1	See case narrative
P	Not preserved to the proper pH
P1	Storage temperature out of control
P2	Incubator temperature out of control
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.
Q7	Quality control outside QC limits.
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.
RE	Re-extracted and/or re-analyzed.
REH	The original analysis was within holding time; re-analysis past holding time.
S	Surrogate recovery outside control limit.
T	Tentatively Identified Compound (TIC) by library search.
T1	Confirmed by secondary ion
W	Results are reported on dry weight basis.

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Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of 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.