



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



Report Number: 24-012976/D003.R001
Report Date: 11/27/2024
ORELAP#: OR100028
Purchase Order:
Received: 11/15/24 15:40

This is an amended version of report# 24-012976/D003.R000.
Reason: Updated client information

Customer: Woodstock
Product identity: Woodstock- Live D9 Hybrid/Active/Day Gummy- Strawberry Cheesecake
Client/Metr ID: .
Laboratory ID: 24-012976-0003

Summary

Potency:

Analyte per 8g	Result	Limits	Units	Status	
CBD-A per 8g	0.786		mg/8g		Delta-9-THC-Total per 19.9 mg/8g
CBG per 8g	0.453		mg/8g		
Δ9-THC per 8g	19.9		mg/8g		CBD-Total per Serving Size 0.690 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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ORELAP#: OR100028
Purchase Order:
Received: 11/15/24 15:40

Customer: Woodstock

Product identity: Woodstock- Live D9 Hybrid/Active/Day Gummy- Strawberry Cheesecake
Client/Metric ID: .
Sample Date:
Laboratory ID: 24-012976-0003
Evidence of Cooling: No
Temp: 19.8 °C
Lot #: 3618NC_110524
Serving Size #1: 8 g

Sample Results

Potency per 8g	Method: J AOAC 2015 V98-6 (mod) ^b		Units mg/se	Batch: 2408946	Analyze: 11/18/24 7:08:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBD per 8g	< LOQ		mg/8g	0.263	
CBD-A per 8g [⊥]	0.786		mg/8g	0.263	
CBD-Total per 8g [⊥]	0.690		mg/8g	0.494	
CBG per 8g	0.453		mg/8g	0.263	
CBG-A per 8g	< LOQ		mg/8g	0.263	
CBG-Total per 8g	< LOQ		mg/8g	0.491	
CBN per 8g	< LOQ		mg/8g	0.263	
Δ10-THC-9R per 8g	< LOQ		mg/8g	0.263	
Δ10-THC-9S per 8g	< LOQ		mg/8g	0.263	
Δ10-THC-Total per 8g	< LOQ		mg/8g	0.526	
Δ8-THC per 8g [⊥]	< LOQ		mg/8g	0.263	
Δ9-THC per 8g [⊥]	19.9		mg/8g	0.263	
Δ9-THC-Total per 8g	19.9		mg/8g	0.494	
THC-A per 8g [⊥]	< LOQ		mg/8g	0.263	

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2408887	11/19/24 AOAC 990.12 (Petrifilm)		
E.coli	< LOQ		cfu/g	10	2408885	11/19/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2408885	11/19/24 AOAC 991.14 (Petrifilm)		
Staphylococcus aureus	< LOQ		cfu/g	10	2408889	11/18/24 AOAC 2003.07		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2408886	11/20/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2408886	11/20/24 AOAC 2014.05 (RAPID)		
Listeria spp.	Negative		/5g		2408893	11/18/24 AOAC 2019.10		
Salmonella spp. [⊥]	Negative		/5g		2408891	11/18/24 AOAC 2020.02 ^b		
EHEC including STEC [⊥]	Negative		/5g		2408892	11/18/24 AOAC RI 121806 ^b		



Solvents						Method: Residual Solvents by HS-GC-MS ^b						Units µg/g		Batch 2409032		Analyze 11/21/24 12:51 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											



Pesticides					Method: AOAC 2007.01 & EN 15662 (mod)	Units mg/kg	Batch 2408990	Analyze 11/20/24 10:37 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 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	0.0149	2409061	11/21/24	AOAC 2013.06 (mod.) ^b	pass		
Cadmium [⊥]	< LOQ	0.200	mg/kg	0.0149	2409061	11/21/24	AOAC 2013.06 (mod.) ^b	pass		
Lead [⊥]	< LOQ	0.500	mg/kg	0.0149	2409061	11/21/24	AOAC 2013.06 (mod.) ^b	pass		
Mercury [⊥]	< LOQ	0.100	mg/kg	0.00743	2409061	11/21/24	AOAC 2013.06 (mod.) ^b	pass		



Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B1 [⊥]	< LOQ		µg/kg	5.00	2409009	11/21/24 AOAC 2007.01 & EN 15662 (mod)		
Aflatoxin B2 [⊥]	< LOQ		µg/kg	5.00	2409009	11/21/24 AOAC 2007.01 & EN 15662 (mod)		
Aflatoxin G1 [⊥]	< LOQ		µg/kg	5.00	2409009	11/21/24 AOAC 2007.01 & EN 15662 (mod)		
Aflatoxin G2 [⊥]	< LOQ		µg/kg	5.00	2409009	11/21/24 AOAC 2007.01 & EN 15662 (mod)		
Ochratoxin A	< LOQ	20.0	µg/kg	5.00	2409009	11/21/24 AOAC 2007.01 & EN 15662 (mod) ^p	pass	
Total Aflatoxins	< LOQ	20.0	µg/kg	20.0		11/22/24 AOAC 2007.01 & EN 15662 (mod) ^p	pass	

**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.

Ⓟ = ISO/IEC 17025:2017 accredited method.

⊥ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

g = Gram

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/8g = Milligram per 8g

/5g = Per 5 grams

% = Percentage of sample

% wt = µg/g divided by 10,000



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Hemp & Cannabis
Chain of Custody

The-Hemp-Collect-
1730757621

							Testing					
							H0013 - Cannabis Heavy Metals (Pb, Cd, Cu, Fe, Mn, Ni, Zn)	M9000 - Micro Pro (le X)	H0014 - Potency Cannabis (Basic)	P2120 - Pesticides (CR - Cannabis)	H0008 - Residual Solvents (Cannabis - Oregon)	H0042 - Atoxins+Ochratoxin QLOC
Company Details Company: <u>The Hemp Collect</u> Contact: <u>Sierra Solnick</u> Street Address: <u>2014 SE 9th Ave</u> City, State, Zip: <u>Portland, OR 97214</u> Email: <u>sierra@thehempcollect.com</u> Contact Phone: <u>8607520027</u> Billing Information Billing Email: <u>accounting@thehempcollect.com</u>							Project Details Turnaround Time: <u>5 Business Days Reg. For Micro Testing Standard</u> Relinquishment Sampling, Courier & Shipping Options: <u>By Shipping Service (USPS, UPS, FedEx)</u> Receipt Information Prelog Storage: <u>Canna Shelves</u> Sample Condition: <u>Satisfactory</u>					
#	Sample Name	Lot Additional Sample ID	Material	Amount Provided	Reporting Unit	Speci cations						
1	Woodstock- Live D9 Indica/ Relz/ Night Gummy- Blackberry Cobbler	3617NC_110524	Cannabinoid Edible	3 each	mg/g	mg/8g Gummy	✓	✓	✓	✓	✓	✓
2	Woodstock- Live D9 Sativa/ Energy Gummy- Tiger's Blood	3616NC_110524	Cannabinoid Edible	3 each	mg/g	mg/8g Gummy	✓	✓	✓	✓	✓	✓
3	Woodstock- Live D9 Hybrid/ Active/ Day Gummy- Strawberry Cheesecake	3618NC_110524	Cannabinoid Edible	3 each	mg/g	mg/8g Gummy	✓	✓	✓	✓	✓	✓

Relinquished By	Date	Time	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?

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


Laboratory Quality Control Results
J AOAC 2015 V98-6 **Batch ID: 2408946**
Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0325	0.0322	%	101	80.0 - 120	Acceptable	
CBDV	2	0.0320	0.0325	%	98.4	80.0 - 120	Acceptable	
CBE	2	0.0348	0.0352	%	98.9	80.0 - 120	Acceptable	
CBDA	1	0.0363	0.0364	%	99.7	90.0 - 110	Acceptable	
CBGA	1	0.0349	0.0347	%	101	80.0 - 120	Acceptable	
CBG	1	0.0350	0.0345	%	101	80.0 - 120	Acceptable	
CBD	1	0.0332	0.0333	%	99.8	90.0 - 110	Acceptable	
THCV	2	0.0328	0.0329	%	99.8	80.0 - 120	Acceptable	
d8THCV	2	0.0351	0.0354	%	99.3	80.0 - 120	Acceptable	
THCVA	2	0.0319	0.0316	%	101	80.0 - 120	Acceptable	
CBN	1	0.0334	0.0334	%	100	80.0 - 120	Acceptable	
exo-THC	2	0.0322	0.0327	%	98.5	80.0 - 120	Acceptable	
d9THC	1	0.0349	0.0339	%	103	90.0 - 110	Acceptable	
d8THC	1	0.0318	0.0339	%	93.6	90.0 - 110	Acceptable	
9S-d10THC	1	0.0342	0.0348	%	98.1	80.0 - 120	Acceptable	
CBL	2	0.0334	0.0340	%	98.3	80.0 - 120	Acceptable	
9R-d10THC	1	0.0343	0.0357	%	96.1	80.0 - 120	Acceptable	
CBC	2	0.0311	0.0324	%	95.9	80.0 - 120	Acceptable	
THCA	1	0.0357	0.0352	%	101	90.0 - 110	Acceptable	
CBCA	2	0.0337	0.0337	%	100	80.0 - 120	Acceptable	
CBLA	2	0.0324	0.0330	%	98.1	80.0 - 120	Acceptable	
d9THCP	2	0.0319	0.0329	%	96.9	80.0 - 120	Acceptable	
CBT	2	0.0311	0.0346	%	89.9	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBDV	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBE	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBDA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBGA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBG	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBD	<LOQ	0.00331	%	< 0.00331	Acceptable	
THCV	<LOQ	0.00331	%	< 0.00331	Acceptable	
d8THCV	<LOQ	0.00331	%	< 0.00331	Acceptable	
THCVA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBN	<LOQ	0.00331	%	< 0.00331	Acceptable	
exo-THC	<LOQ	0.00331	%	< 0.00331	Acceptable	
d9THC	<LOQ	0.00331	%	< 0.00331	Acceptable	
d8THC	<LOQ	0.00331	%	< 0.00331	Acceptable	
9S-d10THC	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBL	<LOQ	0.00331	%	< 0.00331	Acceptable	
9R-d10THC	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBC	<LOQ	0.00331	%	< 0.00331	Acceptable	
THCA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBCA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBLA	<LOQ	0.00331	%	< 0.00331	Acceptable	
d9THCP	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBT	<LOQ	0.00331	%	< 0.00331	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent


Laboratory Quality Control Results

J AOAC 2015 V98-6			Batch ID: 2408946					
Sample Duplicate			Sample ID: 24-012921-0001					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBG	0.00560	0.00585	0.00318	%	4.46	< 20	Acceptable	
CBD	0.258	0.258	0.00318	%	0.0255	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBN	0.258	0.258	0.00318	%	0.202	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
d9THC	0.244	0.245	0.00318	%	0.365	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBC	0.00320	0.00326	0.00318	%	1.75	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662				Units: mg/Kg		Batch ID: 2408990		
Method Blank				Laboratory Control Sample				
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.025	< 0.250		0.795	1.000	79.5	50.0 150	
Acephate	0.000	< 0.200		0.584	0.800	73.0	60.0 120	
Acequinocyl	0.000	< 1.000		1.902	4.000	47.6	40.0 160	
Acetamiprid	0.000	< 0.100		0.354	0.400	88.4	60.0 120	
Aldicarb	0.000	< 0.200		0.636	0.800	79.5	60.0 120	
Azoxystrobin	0.007	< 0.100		0.337	0.400	84.4	60.0 120	
Bifenazate	0.000	< 0.100		0.405	0.400	101.2	60.0 120	
Bifenthrin	0.000	< 0.100		0.386	0.400	96.5	50.0 150	
Boscalid	0.004	< 0.200		0.649	0.800	81.2	60.0 120	
Carbaryl	0.000	< 0.100		0.302	0.400	75.6	60.0 120	
Carbofuran	0.000	< 0.100		0.329	0.400	82.3	60.0 120	
Chlorantraniliprole	0.000	< 0.100		0.310	0.400	77.5	60.0 120	
Chlorfenapyr	0.000	< 0.500		1.535	2.000	76.7	60.0 120	
Chlorpyrifos	0.000	< 0.100		0.360	0.400	90.1	60.0 120	
Clofentezine	0.000	< 0.100		0.299	0.400	74.7	60.0 120	
Cyfluthrin	0.032	< 0.500		1.609	2.000	80.5	50.0 150	
Cypermethrin	0.046	< 0.500		1.599	2.000	80.0	50.0 150	
Daminozide	0.145	< 0.500		1.166	2.000	58.3	60.0 120	Q7
Diazinon	0.000	< 0.100		0.355	0.400	88.7	60.0 120	
Dichlorvos	0.084	< 0.500		1.520	2.000	76.0	60.0 120	
Dimethoate	0.009	< 0.100		0.312	0.400	78.0	60.0 120	
Ethoprophos	0.007	< 0.100		0.304	0.400	76.1	60.0 120	
Etofenprox	0.000	< 0.200		0.869	0.800	108.7	50.0 150	
Etoxazole	0.001	< 0.100		0.325	0.400	81.3	60.0 120	
Fenoxycarb	0.000	< 0.100		0.354	0.400	88.4	60.0 120	
Fenpyroximate	0.018	< 0.200		0.646	0.800	80.7	60.0 120	
Fipronil	0.000	< 0.200		0.594	0.800	74.3	60.0 120	
Flonicamid	0.000	< 0.250		0.759	1.000	75.9	60.0 120	
Fludioxonil	0.008	< 0.200		0.694	0.800	86.8	50.0 150	
Hexythiazox	0.000	< 0.250		0.831	1.000	83.1	60.0 120	
Imazalil	0.001	< 0.100		0.377	0.400	94.2	60.0 120	
Imidacloprid	0.052	< 0.200		0.686	0.800	85.7	60.0 120	
Kresoxim-methyl	0.000	< 0.200		0.671	0.800	83.9	60.0 120	
Malathion	0.008	< 0.100		0.343	0.400	85.9	60.0 120	
Metalaxyl	0.000	< 0.100		0.349	0.400	87.3	60.0 120	
Methiocarb	0.002	< 0.100		0.323	0.400	80.8	60.0 120	
Methomyl	0.000	< 0.200		0.717	0.800	89.6	60.0 120	
MGK-264	0.000	< 0.100		0.339	0.400	84.9	50.0 150	
Myclobutanil	0.000	< 0.100		0.359	0.400	89.7	60.0 120	
Naled	0.000	< 0.250		0.787	1.000	78.7	50.0 150	
Oxamyl	0.000	< 0.500		1.808	2.000	90.4	60.0 120	
Paclobutrazole	0.000	< 0.200		0.743	0.800	92.9	60.0 120	
Parathion-Methyl	0.000	< 0.100		0.360	0.400	90.0	50.0 150	
Permethrin	0.000	< 0.100		0.359	0.400	89.7	50.0 150	
Phosmet	0.000	< 0.100		0.348	0.400	87.0	50.0 150	
Piperonyl butoxide	0.000	< 0.500		1.846	2.000	92.3	60.0 120	
Prallethrin	0.000	< 0.100		0.341	0.400	85.2	60.0 120	
Propiconazole	0.000	< 0.200		0.689	0.800	86.1	60.0 120	
Propoxur	0.006	< 0.100		0.316	0.400	79.1	60.0 120	
Pyrethrin (Summe)	0.006	< 0.100		0.414	0.488	84.7	60.0 120	
Pyridaben	0.000	< 0.100		0.355	0.400	88.8	50.0 150	
Spinosad	0.000	< 0.100		0.331	0.388	85.3	50.0 150	
Spiromesifen	0.000	< 0.100		0.358	0.400	89.6	60.0 120	
Spirotetramat	0.004	< 0.100		0.323	0.400	80.7	60.0 120	
Spiroxamine	0.000	< 0.200		0.734	0.800	91.8	60.0 120	



Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662				Units: mg/Kg				Batch ID: 2408990			
Matrix Spike/Matrix Spike Duplicate Recoveries						Sample ID: 24-012593-0001					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Abamectin	0.020	0.869	0.937	1.000	7.8%	< 30	84.9%	91.7%	50 - 150	R	
Acephate	0.000	0.457	0.440	0.800	3.8%	< 30	57.1%	55.0%	50 - 150		
Acequinocyl	0.000	2.456	4.159	4.000	51.5%	< 30	61.4%	104.0%	50 - 150		
Acetamiprid	0.000	0.374	0.387	0.400	3.4%	< 30	93.4%	96.7%	50 - 150		
Aldicarb	0.000	0.644	0.663	0.800	3.0%	< 30	80.5%	82.9%	50 - 150		
Azoxystrobin	0.008	0.348	0.336	0.400	3.6%	< 30	84.8%	81.8%	50 - 150		
Bifenazate	0.000	0.392	0.415	0.400	5.7%	< 30	98.0%	103.8%	50 - 150		
Bifenthrin	0.000	0.335	0.377	0.400	11.7%	< 30	83.8%	94.2%	50 - 150		
Boscalid	0.003	0.597	0.621	0.800	4.0%	< 30	74.2%	77.2%	50 - 150		
Carbaryl	0.007	0.317	0.318	0.400	0.2%	< 30	77.5%	77.7%	50 - 150		
Carbofuran	0.000	0.331	0.340	0.400	2.6%	< 30	82.7%	84.9%	50 - 150		
Chlorantraniliprole	0.000	0.314	0.331	0.400	5.2%	< 30	78.6%	82.8%	50 - 150		
Chlorfenapyr	0.000	1.497	1.574	2.000	5.0%	< 30	74.8%	78.7%	50 - 150		
Chlorpyrifos	0.000	0.368	0.381	0.400	3.2%	< 30	92.1%	95.1%	50 - 150		
Clofentezine	0.000	0.358	0.380	0.400	6.0%	< 30	89.6%	95.1%	50 - 150		
Cyfluthrin	0.034	1.552	1.676	2.000	7.8%	< 30	75.9%	82.1%	30 - 150		
Cypermethrin	0.045	1.692	1.721	2.000	1.7%	< 30	82.3%	83.8%	50 - 150		
Daminozide	0.108	0.856	0.865	2.000	1.1%	< 30	37.4%	37.8%	30 - 150		
Diazinon	0.000	0.392	0.408	0.400	4.0%	< 30	97.9%	101.9%	50 - 150		
Dichlorvos	0.083	1.577	1.581	2.000	0.3%	< 30	74.7%	74.9%	50 - 150		
Dimethoate	0.009	0.328	0.340	0.400	3.7%	< 30	79.8%	82.8%	50 - 150		
Ethoprophos	0.006	0.339	0.364	0.400	7.3%	< 30	83.1%	89.4%	50 - 150		
Etofenprox	0.000	0.820	0.851	0.800	3.7%	< 30	102.5%	106.4%	50 - 150		
Etoxazole	0.000	0.353	0.368	0.400	4.2%	< 30	88.2%	92.0%	50 - 150		
Fenoxycarb	0.000	0.383	0.395	0.400	3.2%	< 30	95.7%	98.8%	50 - 150		
Fenpyroximate	0.018	0.661	0.696	0.800	5.4%	< 30	80.4%	84.8%	50 - 150		
Fipronil	0.000	0.610	0.606	0.800	0.6%	< 30	76.3%	75.8%	50 - 150		
Flonicamid	0.000	0.769	0.800	1.000	4.0%	< 30	76.9%	80.0%	50 - 150		
Fludioxonil	0.008	0.698	0.713	0.800	2.1%	< 30	86.2%	88.0%	50 - 150		
Hexythiazox	0.000	0.894	0.927	1.000	3.6%	< 30	89.4%	92.7%	50 - 150		
Imazalil	0.000	0.408	0.408	0.400	0.1%	< 30	102.0%	102.1%	50 - 150		
Imidacloprid	0.000	0.706	0.719	0.800	1.9%	< 30	88.2%	89.9%	50 - 150		
Kresoxim-methyl	0.001	0.793	0.790	0.800	0.3%	< 30	99.0%	98.7%	50 - 150		
Malathion	0.008	0.344	0.395	0.400	13.9%	< 30	83.9%	96.5%	50 - 150		
Metalaxyl	0.000	0.374	0.406	0.400	8.4%	< 30	93.4%	101.6%	50 - 150		
Methiocarb	0.002	0.333	0.339	0.400	2.0%	< 30	82.7%	84.4%	50 - 150		
Methomyl	0.000	0.766	0.781	0.800	2.0%	< 30	95.8%	97.7%	50 - 150		
MGK-264	0.000	0.376	0.386	0.400	2.7%	< 30	94.0%	96.6%	50 - 150		
Myclobutanil	0.000	0.338	0.361	0.400	6.6%	< 30	84.5%	90.2%	50 - 150		
Naled	0.000	0.789	0.774	1.000	1.9%	< 30	78.9%	77.4%	50 - 150		
Oxamyl	0.000	1.897	1.901	2.000	0.2%	< 30	94.9%	95.0%	50 - 150		
Paclobutrazole	0.000	0.587	0.627	0.800	6.6%	< 30	73.4%	78.4%	50 - 150		
Parathion-Methyl	0.000	0.320	0.381	0.400	17.3%	< 30	80.0%	95.2%	30 - 150		
Permethrin	0.000	0.374	0.385	0.400	2.8%	< 30	93.5%	96.2%	50 - 150		
Phosmet	0.000	0.344	0.362	0.400	5.2%	< 30	85.9%	90.5%	50 - 150		
Piperonyl butoxide	0.000	2.013	1.685	2.000	17.8%	< 30	100.7%	84.2%	50 - 150		
Prallethrin	0.000	0.364	0.370	0.400	1.8%	< 30	90.9%	92.5%	50 - 150		
Propiconazole	0.000	0.714	0.743	0.800	4.0%	< 30	89.2%	92.9%	50 - 150		
Propoxur	0.006	0.309	0.312	0.400	1.1%	< 30	75.7%	76.5%	50 - 150		
Pyrethrin (Summe)	0.005	0.473	0.471	0.488	0.5%	< 30	95.9%	95.4%	50 - 150		
Pyridaben	0.000	0.376	0.407	0.400	8.0%	< 30	93.9%	101.7%	50 - 150		
Spinosad	0.000	0.358	0.374	0.388	4.3%	< 30	92.3%	96.4%	50 - 150		
Spiromesifen	0.000	0.389	0.398	0.400	2.2%	< 30	97.3%	99.5%	50 - 150		
Spirotetramat	0.004	0.388	0.401	0.400	3.3%	< 30	96.1%	99.2%	50 - 150		
Spiroxamine	0.000	0.796	0.853	0.800	6.9%	< 30	99.4%	106.6%	50 - 150		


Laboratory Quality Control Results

Residual Solvents					Batch ID: 2409032						
Method Blank					Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes		
Propane	ND	< 200		484	585	µg/g	82.7	60 - 120			
Isobutane	ND	< 200		603	770	µg/g	78.3	60 - 120			
Butane	ND	< 200		611	769	µg/g	79.5	60 - 120			
2,2-Dimethylpropane	ND	< 200		771	956	µg/g	80.6	60 - 120			
Methanol	ND	< 200		1390	1620	µg/g	85.8	60 - 120			
Ethylene Oxide	ND	< 20		45.8	57.7	µg/g	79.4	60 - 120			
2-Methylbutane	ND	< 200		1390	1640	µg/g	84.8	60 - 120			
Pentane	ND	< 200		1400	1640	µg/g	85.4	60 - 120			
Ethanol	ND	< 200		1390	1620	µg/g	85.8	70 - 130			
Ethyl Ether	ND	< 200		1410	1630	µg/g	86.5	60 - 120			
2,2-Dimethylbutane	ND	< 30		180	212	µg/g	84.9	60 - 120			
Acetone	ND	< 200		1270	1630	µg/g	77.9	60 - 120			
2-Propanol	ND	< 200		1380	1620	µg/g	85.2	60 - 120			
Acetonitrile	ND	< 100		428	504	µg/g	84.9	60 - 120			
2,3-Dimethylbutane	ND	< 30		167	189	µg/g	88.4	60 - 120			
Dichloromethane	ND	< 60		435	538	µg/g	80.9	60 - 120			
2-Methylpentane	ND	< 30		174	182	µg/g	95.6	60 - 120			
3-Methylpentane	ND	< 30		156	179	µg/g	87.2	60 - 120			
Hexane	ND	< 30		156	178	µg/g	87.6	60 - 120			
Ethyl acetate	ND	< 200		1420	1620	µg/g	87.7	60 - 120			
2-Butanol	ND	< 200		1420	1620	µg/g	87.7	60 - 120			
Tetrahydrofuran	ND	< 100		447	511	µg/g	87.5	60 - 120			
Cyclohexane	ND	< 200		1450	1620	µg/g	89.5	60 - 120			
Benzene	ND	< 1		5.45	6.03	µg/g	90.4	60 - 120			
Isopropyl Acetate	ND	< 200		1430	1620	µg/g	88.3	60 - 120			
Heptane	ND	< 200		1470	1620	µg/g	90.7	60 - 120			
1,4-Dioxane	ND	< 100		428	503	µg/g	85.1	60 - 120			
2-Ethoxyethanol	ND	< 30		155	176	µg/g	88.1	60 - 120			
Ethylene Glycol	ND	< 200		401	501	µg/g	80.0	60 - 120			
Toluene	ND	< 100		480	543	µg/g	88.4	60 - 120			
Ethylbenzene	ND	< 200		854	983	µg/g	86.9	60 - 120			
m,p-Xylene	ND	< 200		883	1030	µg/g	85.7	60 - 120			
o-Xylene	ND	< 200		881	979	µg/g	90.0	60 - 120			
Cumene	ND	< 30		166	183	µg/g	90.7	60 - 120			


QC - Sample Duplicate
Sample ID: 24-012593-0001

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	20	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	
Acetonitrile	ND	ND	100	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	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	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	
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	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	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	
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	

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



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



Report Number: 24-012976/D003.R001
Report Date: 11/27/2024
ORELAP#: OR100028
Purchase Order:
Received: 11/15/24 15:40





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	Quantitation 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.