



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



Report Number: 23-007502/D002.R000
Report Date: 06/30/2023
ORELAP#: OR100028
Purchase Order: ZentopiaMPS061923
Received: 06/23/23 15:11

Customer: CJ2, LLC (DBA Zentopia)
Product identity: HuckleberryLem-120522-16:14
Client/Metric ID: .
Laboratory ID: 23-007502-0007

Summary

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: CJ2, LLC (DBA Zentopia)
 541-801-3097
 92 Centennial Loop
 Eugene Oregon 97401
 United States of America (USA)

Product identity: HuckleberryLem-120522-16:14

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-007502-0007

Evidence of Cooling: No

Temp: 24.9

Relinquished by: shipping

Serving Size #1: 473.65 g

Density: 1.001 g/ml

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2308532	06/27/23 AOAC 990.12 (Petrifilm) ^P		
E.coli	< LOQ		cfu/g	10	2308530	06/27/23 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2308530	06/27/23 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2308531	06/27/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2308531	06/27/23 AOAC 2014.05 (RAPID) ^P		



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Solvents											Method: Residual Solvents by GC/MS ^b					Units µg/g	Batch 2308701	Analyze 06/30/23 09:23 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		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) ^b											
Units mg/kg Batch 2308589 Analyze 06/27/23 12:16 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 [‡]	< LOQ	0.20	0.100	pass	
Clofentezine [‡]	< LOQ	0.20	0.100	pass		Cyfluthrin [‡]	< LOQ	1.0	0.500	pass	
Cypermethrin [‡]	< 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		Pacllobutrazole [‡]	< 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	0.00383	2308593	06/27/23 AOAC 2013.06 (mod.) ^b	pass			
Cadmium [‡]	< LOQ	0.200	mg/kg	0.00383	2308593	06/27/23 AOAC 2013.06 (mod.) ^b	pass			
Lead [‡]	< LOQ	0.500	mg/kg	0.00383	2308593	06/27/23 AOAC 2013.06 (mod.) ^b	pass			
Mercury [‡]	< LOQ	0.100	mg/kg	0.00192	2308593	06/27/23 AOAC 2013.06 (mod.) ^b	pass			



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Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B2 [‡]	< LOQ		µg/kg	5.00	2308627	06/28/23 AOAC 2007.01 & EN 15662 (mod) [‡]		
Aflatoxin B1 [‡]	< LOQ		µg/kg	5.00	2308627	06/28/23 AOAC 2007.01 & EN 15662 (mod) [‡]		
Aflatoxin G1 [‡]	< LOQ		µg/kg	5.00	2308627	06/28/23 AOAC 2007.01 & EN 15662 (mod) [‡]		
Aflatoxin G2 [‡]	< LOQ		µg/kg	5.00	2308627	06/28/23 AOAC 2007.01 & EN 15662 (mod) [‡]		
Ochratoxin A [‡]	< LOQ	20.0	µg/kg	5.00	2308627	06/28/23 AOAC 2007.01 & EN 15662 (mod) [‡]	pass	
Total Aflatoxins [‡]	0.000	20.0	µg/kg	20.0		06/30/23 AOAC 2007.01 & EN 15662 (mod) [‡]	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.

Ⓐ = ISO/IEC 17025:2017 accredited method.

Ⓜ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

g = g

g/ml = Gram per milliliter

µg/g = Microgram per gram

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

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

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2308589			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.939	1.000	93.9	50.0	150
Acephate	0.020	< 0.200		0.731	0.800	91.3	60.0	120
Acetamiprid	0.000	< 1.000		3.733	4.000	93.3	40.0	160
Acetamiprid	0.002	< 0.100		0.381	0.400	95.2	60.0	120
Aldicarb	0.000	< 0.200		0.768	0.800	96.0	60.0	120
Azoxystrobin	0.010	< 0.100		0.376	0.400	94.1	60.0	120
Bifenazate	0.000	< 0.100		0.401	0.400	100.3	60.0	120
Bifenthrin	0.000	< 0.100		0.374	0.400	93.4	50.0	150
Boscalid	0.000	< 0.200		0.740	0.800	92.5	60.0	120
Carbaryl	0.000	< 0.100		0.376	0.400	94.0	60.0	120
Carbofuran	0.000	< 0.100		0.378	0.400	94.6	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.376	0.400	94.0	60.0	120
Chlorfenapyr	0.000	< 0.500		2.060	2.000	103.0	60.0	120
Chlorpyrifos	0.000	< 0.100		0.383	0.400	95.8	60.0	120
Clofentazine	0.002	< 0.100		0.349	0.400	87.1	60.0	120
Cyfluthrin	0.000	< 0.500		2.077	2.000	103.9	50.0	150
Cypermethrin	0.000	< 0.500		1.906	2.000	95.3	50.0	150
Daminozide	0.000	< 0.500		0.735	2.000	36.8	60.0	120
Diazinon	0.000	< 0.100		0.373	0.400	93.3	60.0	120
Dichlorvos	0.000	< 0.500		1.907	2.000	95.4	60.0	120
Dimethoate	0.000	< 0.100		0.368	0.400	92.0	60.0	120
Ethoprophos	0.000	< 0.100		0.384	0.400	96.0	60.0	120
Etofenprox	0.005	< 0.200		0.765	0.800	95.6	50.0	150
Etoxazole	0.000	< 0.100		0.398	0.400	99.5	60.0	120
Fenoxycarb	0.000	< 0.100		0.386	0.400	96.5	60.0	120
Fenpyroximate	0.000	< 0.200		0.762	0.800	95.3	60.0	120
Fipronil	0.000	< 0.200		0.765	0.800	95.6	60.0	120
Fonicamid	0.000	< 0.250		1.003	1.000	100.3	60.0	120
Fludioxonil	0.000	< 0.200		0.798	0.800	99.7	50.0	150
Hexythiazox	0.000	< 0.250		0.943	1.000	94.3	60.0	120
Imazalil	0.000	< 0.100		0.380	0.400	94.9	60.0	120
Imidacloprid	0.000	< 0.200		0.722	0.800	90.2	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.748	0.800	93.5	60.0	120
Malathion	0.000	< 0.100		0.387	0.400	96.9	60.0	120
Metaxalyl	0.000	< 0.100		0.389	0.400	97.3	60.0	120
Methiocarb	0.001	< 0.100		0.383	0.400	95.7	60.0	120
Methomyl	0.000	< 0.200		0.783	0.800	97.9	60.0	120
MGK-264	0.002	< 0.100		0.383	0.400	95.7	50.0	150
Myclobutanil	0.000	< 0.100		0.377	0.400	94.1	60.0	120
Naled	0.000	< 0.250		0.944	1.000	94.4	50.0	150
Oxamyl	0.000	< 0.500		1.853	2.000	92.6	60.0	120
Pacllobutrazole	0.000	< 0.200		0.761	0.800	95.2	60.0	120
Parathion-Methyl	0.000	< 0.100		0.395	0.400	98.8	50.0	150
Permethrin	0.003	< 0.100		0.372	0.400	93.0	50.0	150
Phosmet	0.000	< 0.100		0.378	0.400	94.4	50.0	150
Piperonyl butoxide	0.000	< 0.500		1.988	2.000	99.4	60.0	120
Prallethrin	0.000	< 0.100		0.379	0.400	94.7	60.0	120
Propiconazole	0.000	< 0.200		0.770	0.800	96.2	60.0	120
Propoxur	0.002	< 0.100		0.371	0.400	92.9	60.0	120
Pyrethrin (Summe)	0.001	< 0.100		0.471	0.488	96.5	60.0	120
Pyridaben	0.001	< 0.100		0.379	0.400	94.8	50.0	150
Spirosad	0.000	< 0.100		0.371	0.388	95.6	50.0	150
Spiromesifen	0.000	< 0.100		0.383	0.400	95.7	60.0	120
Spirotetramat	0.000	< 0.100		0.385	0.400	96.1	60.0	120
Spiroxamine	0.006	< 0.200		0.773	0.800	96.6	60.0	120
Tebuconazole	0.004	< 0.200		0.756	0.800	94.5	60.0	120
Thiacloprid	0.000	< 0.100		0.374	0.400	93.5	60.0	120
Thiamethoxam	0.000	< 0.100		0.411	0.400	102.9	60.0	120
Trifloxystrobin	0.003	< 0.100		0.383	0.400	95.8	60.0	120

Q6



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Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg				Batch ID: 2308589				
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 23-007383-0003								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.862	0.887	1.000	2.8%	< 30	86.2%	88.7%	50 - 150	
Accephate	0.026	0.704	0.745	0.800	5.9%	< 30	84.7%	89.8%	50 - 150	
Accequinocyl	0.000	3.571	3.495	4.000	2.2%	< 30	89.3%	87.4%	50 - 150	
Acetamiprid	0.000	0.358	0.364	0.400	1.5%	< 30	89.6%	90.9%	50 - 150	
Aldicarb	0.000	0.727	0.734	0.800	1.0%	< 30	90.8%	91.7%	50 - 150	
Azoxystrobin	0.009	0.354	0.351	0.400	0.9%	< 30	86.3%	85.5%	50 - 150	
Bifenazate	0.000	0.378	0.372	0.400	1.4%	< 30	94.4%	93.1%	50 - 150	
Bifenthrin	0.000	0.357	0.361	0.400	0.9%	< 30	89.3%	90.1%	50 - 150	
Boscalid	0.000	0.766	0.729	0.800	4.9%	< 30	95.7%	91.1%	50 - 150	
Carbaryl	0.000	0.359	0.366	0.400	1.9%	< 30	89.9%	91.6%	50 - 150	
Carbofuran	0.000	0.361	0.371	0.400	2.7%	< 30	90.3%	92.8%	50 - 150	
Chlorantraniliprole	0.000	0.353	0.360	0.400	1.7%	< 30	88.4%	89.9%	50 - 150	
Chlorfenapyr	0.000	1.633	1.561	2.000	4.4%	< 30	81.6%	78.1%	50 - 150	
Chlorpyrifos	0.000	0.345	0.344	0.400	0.1%	< 30	86.2%	86.1%	50 - 150	
Clofentazine	0.002	0.267	0.269	0.400	1.0%	< 30	66.3%	66.9%	50 - 150	
Cyfluthrin	0.000	1.773	1.861	2.000	4.8%	< 30	88.7%	93.0%	30 - 150	
Cypermethrin	0.000	1.769	1.765	2.000	0.2%	< 30	88.5%	88.3%	50 - 150	
Daminozide	0.000	0.695	0.697	2.000	0.2%	< 30	34.8%	34.8%	30 - 150	
Diazinon	0.000	0.362	0.348	0.400	4.0%	< 30	90.5%	86.9%	50 - 150	
Dichlorvos	0.000	1.831	1.923	2.000	4.9%	< 30	91.6%	96.2%	50 - 150	
Dimethoate	0.000	0.354	0.355	0.400	0.3%	< 30	88.5%	88.8%	50 - 150	
Ethoprophos	0.000	0.362	0.348	0.400	4.0%	< 30	90.5%	86.9%	50 - 150	
Etofenprox	0.005	0.712	0.720	0.800	1.2%	< 30	88.4%	89.4%	50 - 150	
Etoxazole	0.000	0.363	0.367	0.400	1.3%	< 30	90.6%	91.9%	50 - 150	
Fenoxycarb	0.000	0.353	0.363	0.400	2.7%	< 30	88.4%	90.8%	50 - 150	
Fenpyroximate	0.001	0.757	0.751	0.800	0.7%	< 30	94.5%	93.9%	50 - 150	
Fipronil	0.000	0.728	0.719	0.800	1.2%	< 30	91.0%	89.9%	50 - 150	
Flonicamid	0.000	0.869	0.876	1.000	0.8%	< 30	86.9%	87.6%	50 - 150	
Fludioxonil	0.000	0.716	0.726	0.800	1.3%	< 30	89.6%	90.7%	50 - 150	
Hexythiazox	0.014	0.878	0.878	1.000	0.1%	< 30	86.5%	86.4%	50 - 150	
Imazalil	0.000	0.364	0.359	0.400	1.2%	< 30	90.9%	89.8%	50 - 150	
Imidacloprid	0.000	0.640	0.650	0.800	1.5%	< 30	80.0%	81.2%	50 - 150	
Kresoxim-methyl	0.000	0.710	0.731	0.800	2.8%	< 30	88.8%	91.3%	50 - 150	
Malathion	0.000	0.371	0.365	0.400	1.5%	< 30	92.7%	91.3%	50 - 150	
Metaxalyl	0.000	0.365	0.372	0.400	1.9%	< 30	91.3%	93.1%	50 - 150	
Methiocarb	0.001	0.362	0.366	0.400	0.9%	< 30	90.3%	91.2%	50 - 150	
Methomyl	0.000	0.672	0.685	0.800	1.8%	< 30	84.1%	85.6%	50 - 150	
MGK-264	0.003	0.373	0.348	0.400	7.0%	< 30	92.5%	86.3%	50 - 150	
Myclobutanil	0.000	0.362	0.348	0.400	3.9%	< 30	90.5%	87.0%	50 - 150	
Naled	0.000	0.906	0.901	1.000	0.5%	< 30	90.6%	90.1%	50 - 150	
Oxamyl	0.000	1.714	1.788	2.000	4.2%	< 30	85.7%	89.4%	50 - 150	
Paclotrazole	0.000	0.745	0.759	0.800	1.9%	< 30	93.1%	94.9%	50 - 150	
Parathion-Methyl	0.000	0.373	0.386	0.400	3.5%	< 30	93.2%	96.5%	30 - 150	
Permethrin	0.001	0.348	0.350	0.400	0.3%	< 30	86.9%	87.2%	50 - 150	
Phosmet	0.000	0.370	0.368	0.400	0.6%	< 30	92.6%	92.0%	50 - 150	
Piperonyl butoxide	0.000	1.830	1.889	2.000	3.1%	< 30	91.5%	94.4%	50 - 150	
Prallethrin	0.000	0.365	0.348	0.400	4.7%	< 30	91.3%	87.1%	50 - 150	
Propiconazole	0.000	0.720	0.718	0.800	0.4%	< 30	90.0%	89.7%	50 - 150	
Propoxur	0.000	0.363	0.368	0.400	1.3%	< 30	90.8%	92.0%	50 - 150	
Pyrethrin (Summe)	0.001	0.317	0.318	0.488	0.4%	< 30	64.7%	65.0%	50 - 150	
Pyridaben	0.001	0.341	0.342	0.400	0.2%	< 30	84.9%	85.1%	50 - 150	
Spinosad	0.000	0.356	0.353	0.388	0.7%	< 30	91.6%	91.0%	50 - 150	
Spiromesifen	0.000	0.363	0.358	0.400	1.3%	< 30	90.6%	89.5%	50 - 150	
Spirotetramat	0.000	0.360	0.361	0.400	0.3%	< 30	90.1%	90.3%	50 - 150	
Spiroxamine	0.000	0.723	0.729	0.800	0.9%	< 30	90.3%	91.2%	50 - 150	
Tebuconazole	0.004	0.733	0.716	0.800	2.4%	< 30	91.2%	89.1%	50 - 150	
Thiacloprid	0.000	0.357	0.363	0.400	1.6%	< 30	89.2%	90.7%	50 - 150	
Thiamethoxam	0.000	0.371	0.378	0.400	1.9%	< 30	92.8%	94.5%	50 - 150	
Trifloxystrobin	0.003	0.361	0.363	0.400	0.6%	< 30	89.3%	89.8%	50 - 150	



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



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Report Date: 06/30/2023
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Received: 06/23/23 15:11

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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2308701					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		509	584	µg/g	87.2	60 - 120	
Isobutane	ND	< 200		704	767	µg/g	91.8	60 - 120	
Butane	ND	< 200		701	782	µg/g	89.6	60 - 120	
2,2-Dimethylpropane	ND	< 200		756	939	µg/g	80.5	60 - 120	
Methanol	ND	< 200		1520	1640	µg/g	92.7	60 - 120	
Ethylene Oxide	ND	< 30		50.9	57.1	µg/g	89.1	60 - 120	
2-Methylbutane	ND	< 200		1400	1600	µg/g	87.5	60 - 120	
Pentane	ND	< 200		1430	1620	µg/g	88.3	60 - 120	
Ethanol	ND	< 200		1560	1610	µg/g	96.9	70 - 130	
Ethyl Ether	ND	< 200		1450	1610	µg/g	90.1	60 - 120	
2,2-Dimethylbutane	ND	< 30		152	168	µg/g	90.5	60 - 120	
Acetone	ND	< 200		1480	1620	µg/g	91.4	60 - 120	
2-Propanol	ND	< 200		1620	1600	µg/g	101.3	60 - 120	
Ethyl Formate	ND	< 500		1370	1600	µg/g	85.6	70 - 130	
Acetonitrile	ND	< 100		436	484	µg/g	90.1	60 - 120	
Methyl Acetate	ND	< 500		1470	1610	µg/g	91.3	70 - 130	
2,3-Dimethylbutane	ND	< 30		140	162	µg/g	86.4	60 - 120	
Dichloromethane	ND	< 60		444	483	µg/g	91.9	60 - 120	
2-Methylpentane	ND	< 30		162	174	µg/g	93.1	60 - 120	
MTBE	ND	< 500		1490	1610	µg/g	92.5	70 - 130	
3-Methylpentane	ND	< 30		160	168	µg/g	95.2	60 - 120	
Hexane	ND	< 30		151	168	µg/g	89.9	60 - 120	
1-Propanol	ND	< 500		1500	1600	µg/g	93.8	70 - 130	
Methylethylketone	ND	< 500		1480	1620	µg/g	91.4	70 - 130	
Ethyl acetate	ND	< 200		1520	1600	µg/g	95.0	60 - 120	
2-Butanol	ND	< 200		1650	1600	µg/g	103.1	60 - 120	
Tetrahydrofuran	ND	< 100		467	514	µg/g	90.9	60 - 120	
Cyclohexane	ND	< 200		1500	1600	µg/g	93.8	60 - 120	
2-methyl-1-propanol	ND	< 500		1470	1610	µg/g	91.3	70 - 130	
Benzene	ND	< 1		3.93	5.12	µg/g	76.8	60 - 120	
Isopropyl Acetate	ND	< 200		1530	1620	µg/g	94.4	60 - 120	
Heptane	ND	< 200		1490	1610	µg/g	92.5	60 - 120	
1-Butanol	ND	< 500		1510	1600	µg/g	94.4	70 - 130	
Propyl Acetate	ND	< 500		1450	1600	µg/g	90.6	70 - 130	
1,4-Dioxane	ND	< 100		466	493	µg/g	94.5	60 - 120	
2-Ethoxyethanol	ND	< 30		175	163	µg/g	107.4	60 - 120	
Methylisobutylketone	ND	< 500		1450	1600	µg/g	90.6	70 - 130	
3-Methyl-1-butanol	ND	< 500		1530	1610	µg/g	95.0	70 - 130	
Ethylene Glycol	ND	< 200		288	483	µg/g	59.6	60 - 120	
Toluene	ND	< 100		454	493	µg/g	92.1	60 - 120	
Isobutyl Acetate	ND	< 500		1430	1600	µg/g	89.4	70 - 130	
1-Pentanol	ND	< 500		1570	1600	µg/g	98.1	70 - 130	
Butyl Acetate	ND	< 500		1420	1600	µg/g	88.8	70 - 130	
Ethylbenzene	ND	< 200		901	969	µg/g	93.0	60 - 120	
m,p-Xylene	ND	< 200		892	968	µg/g	92.1	60 - 120	
o-Xylene	ND	< 200		908	976	µg/g	93.0	60 - 120	
Cumene	ND	< 30		148	162	µg/g	91.4	60 - 120	
Anisole	ND	< 500		1390	1610	µg/g	86.3	70 - 130	
DMSO	ND	< 500		1080	1610	µg/g	67.1	70 - 130	Q6
1,2-dimethoxyethane	ND	< 50		149	164	µg/g	90.9	70 - 130	
Triethylamine	ND	< 500		1280	1600	µg/g	80.0	70 - 130	
N,N-dimethylformamide	ND	< 150		440	484	µg/g	90.9	70 - 130	
N,N-dimethylacetamide	ND	< 150		413	489	µg/g	84.5	70 - 130	
Pyridine	ND	< 50		123	172	µg/g	71.5	70 - 130	
Sulfolane	ND	< 50		108	163	µg/g	66.3	70 - 130	Q6
1,2-Dichloroethane	ND	< 1		0.959	1	µg/g	95.9	70 - 130	
Chloroform	ND	< 1		1.03	1	µg/g	103.0	70 - 130	
Trichloroethylene	ND	< 1		1.21	1	µg/g	121.0	70 - 130	
1,1-Dichloroethane	ND	< 1		0.994	1	µg/g	99.4	70 - 130	



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



Report Number: 23-007502/D002.R000
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Revision: 2 Document ID: 7087
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QC - Sample Duplicate		Sample ID: 23-007062-0002						
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	
Methyl ethyl ketone	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



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



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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	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.