Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-000025/D004.R000
Report Date: 01/19/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/03/23 10:31

Customer:
Product identity: Blue Raspberry Square 3542022DDB0000613 10mg D9 (3.75g)
Client/Metrc ID: .
Laboratory ID: 23-000025-0006

Summary

Potency:

Analyte per 3.75g	Result	Limits	Units	Status
Δ8-THC per 3.75g	0.540		mg/3.75g	
Δ9-THC per 3.75g	10.4		mg/3.75g	

THC-Total per Serving Size 10.4 mg/3.75g

CBD-Total per Serving Size <LOQ

(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Analyte	Result	Units	Limit	Status
Lead	0.0472	mg/kg	0.500	pass

Microbiology:

Less than LOQ for all analytes.

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Received: 01/03/23 10:31

Customer:

Product identity: Blue Raspberry Square 3542022DDB0000613 10mg D9 (3.75g)
Client/Metrc ID: .
Sample Date:
Laboratory ID: 23-000025-0006
Evidence of Cooling: No
Temp: 12.1
Relinquished by: ups
Serving Size #1: 3.75 g

Sample Results

Potency per 3.75g **Method:** J AOAC 2015 V98-6 (mod)þ **Units** mg/se **Batch:** 2300116 **Analyze:** 1/4/23 11:52:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 3.75g	< LOQ		mg/3.75g	0.121	
CBD-A per 3.75g	< LOQ		mg/3.75g	0.121	
CBD-Total per 3.75g	< LOQ		mg/3.75g	0.228	
CBG per 3.75g	< LOQ		mg/3.75g	0.121	
CBG-A per 3.75g	< LOQ		mg/3.75g	0.121	
CBG-Total per 3.75g	< LOQ		mg/3.75g	0.226	
CBN per 3.75g	< LOQ		mg/3.75g	0.121	
Δ10-THC-9R per 3.75g	< LOQ		mg/3.75g	0.121	
Δ8-THC per 3.75g	0.540		mg/3.75g	0.121	
Δ9-THC per 3.75g	10.4		mg/3.75g	0.121	
THC-A per 3.75g	< LOQ		mg/3.75g	0.121	
THC-Total per 3.75g	10.4		mg/3.75g	0.228	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2300101	01/07/23	AOAC 990.12 (Petrifilm)þ		
E.coli	< LOQ		cfu/g	10	2300099	01/07/23	AOAC 991.14 (Petrifilm)þ		
Total Coliforms	< LOQ		cfu/g	10	2300099	01/07/23	AOAC 991.14 (Petrifilm)þ		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2300100	01/08/23	AOAC 2014.05 (RAPID)þ		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2300100	01/08/23	AOAC 2014.05 (RAPID)þ		

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Solvents **Method:** Residual Solvents by GC/MS^{b} **Units** µg/g **Batch** 2300453 **Analyze** 01/16/23 10:28 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)þ **Units** mg/kg **Batch** 2300273 **Analyze** 01/10/23 10:42 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¥	< 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		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	0.0163	2300352	01/11/23	AOAC 2013.06 (mod.)þ	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0163	2300352	01/11/23	AOAC 2013.06 (mod.)þ	pass	
Lead	0.0472	0.500	mg/kg	0.0163	2300352	01/11/23	AOAC 2013.06 (mod.)þ	pass	
Mercury	< LOQ	0.100	mg/kg	0.00816	2300352	01/11/23	AOAC 2013.06 (mod.)þ	pass	

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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

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

Units of Measure

cfu/g = Colony forming units per gram
g = g
µg/g = Microgram per gram
mg/kg = Milligram per kilogram = parts per million (ppm)
mg/3.75g = Milligram per 3.75g
% = Percentage of sample
% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

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Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2300116**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0350	0.0337	%	104	80.0 - 120	Acceptable	
CBDV	2	0.0378	0.0367	%	103	80.0 - 120	Acceptable	
CBE	2	0.0365	0.0355	%	103	80.0 - 120	Acceptable	
CBDA	1	0.0340	0.0344	%	98.7	90.0 - 110	Acceptable	
CBGA	1	0.0342	0.0345	%	99.4	80.0 - 120	Acceptable	
CBG	1	0.0341	0.0346	%	98.8	80.0 - 120	Acceptable	
CBD	1	0.0345	0.0347	%	99.5	90.0 - 110	Acceptable	
THCV	2	0.0369	0.0351	%	105	80.0 - 120	Acceptable	
d8THCV	2	0.0363	0.0356	%	102	80.0 - 120	Acceptable	
THCVA	2	0.0340	0.0329	%	103	80.0 - 120	Acceptable	
CBN	1	0.0354	0.0357	%	99.2	80.0 - 120	Acceptable	
exo-THC	2	0.0351	0.0342	%	103	80.0 - 120	Acceptable	
d9THC	1	0.0376	0.0372	%	101	90.0 - 110	Acceptable	
d8THC	1	0.0347	0.0360	%	96.5	90.0 - 110	Acceptable	
CBL	2	0.0357	0.0333	%	107	80.0 - 120	Acceptable	
d10THC	1	NA	0.0333	%	NA	80.0 - 120	Acceptable	Q6
CBC	2	0.0365	0.0364	%	100	80.0 - 120	Acceptable	
THCA	1	0.0347	0.0340	%	102	90.0 - 110	Acceptable	
CBCA	2	0.0355	0.0343	%	103	80.0 - 120	Acceptable	
CBLA	2	0.0359	0.0349	%	103	80.0 - 120	Acceptable	
CBT	2	0.0367	0.0363	%	101	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBDV	<LOQ	0.003	%	< 0.003	Acceptable	
CBE	<LOQ	0.003	%	< 0.003	Acceptable	
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	<LOQ	0.003	%	< 0.003	Acceptable	
d9THC	<LOQ	0.003	%	< 0.003	Acceptable	
d8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<LOQ	0.003	%	< 0.003	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: 2300116**

Sample Duplicate Sample ID: **22-015703-0002**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.221	0.217	0.003	%	1.72	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.247	0.246	0.003	%	0.387	< 20	Acceptable	
d8THC	0.0629	0.0581	0.003	%	8.01	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 **Units:** mg/Kg **Batch ID:** 2300273

Method Blank				Laboratory Control Sample					
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**		**Notes**
Abamectin	0.000	< 0.250		1.003	1.000	100.3	50.0	150	
Acephate	0.000	< 0.200		0.767	0.800	95.8	60.0	120	
Acequinocyl	0.000	< 1.000		3.914	4.000	97.9	40.0	160	
Acetamiprid	0.000	< 0.100		0.388	0.400	97.1	60.0	120	
Aldicarb	0.000	< 0.200		0.834	0.800	104.3	60.0	120	
Azoxystrobin	0.000	< 0.100		0.381	0.400	95.3	60.0	120	
Bifenazate	0.000	< 0.100		0.429	0.400	107.4	60.0	120	
Bifenthrin	0.000	< 0.100		0.397	0.400	99.2	50.0	150	
Boscalid	0.000	< 0.200		0.780	0.800	97.5	60.0	120	
Carbaryl	0.000	< 0.100		0.394	0.400	98.5	60.0	120	
Carbofuran	0.000	< 0.100		0.391	0.400	97.7	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.397	0.400	99.2	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.974	2.000	98.7	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.370	0.400	92.6	60.0	120	
Clofentezine	0.000	< 0.100		0.289	0.400	72.1	60.0	120	
Cyfluthrin	0.000	< 0.500		1.965	2.000	98.2	50.0	150	
Cypermethrin	0.000	< 0.500		1.915	2.000	95.8	50.0	150	
Daminozide	0.000	< 0.500		0.674	2.000	***33.7***	60.0	120	**Q6**
Diazinon	0.000	< 0.100		0.410	0.400	102.5	60.0	120	
Dichlorvos	0.000	< 0.500		1.953	2.000	97.6	60.0	120	
Dimethoate	0.000	< 0.100		0.403	0.400	100.7	60.0	120	
Ethoprophos	0.000	< 0.100		0.392	0.400	98.0	60.0	120	
Etofenprox	0.000	< 0.200		0.760	0.800	95.0	50.0	150	
Etoxazole	0.000	< 0.100		0.400	0.400	100.1	60.0	120	
Fenoxycarb	0.000	< 0.100		0.389	0.400	97.1	60.0	120	
Fenpyroximate	0.000	< 0.200		0.767	0.800	95.9	60.0	120	
Fipronil	0.000	< 0.200		0.814	0.800	101.8	60.0	120	
Flonicamid	0.000	< 0.250		1.026	1.000	102.6	60.0	120	
Fludioxonil	0.000	< 0.200		0.807	0.800	100.9	50.0	150	
Hexythiazox	0.000	< 0.250		0.961	1.000	96.1	60.0	120	
Imazalil	0.000	< 0.100		0.402	0.400	100.6	60.0	120	
Imidacloprid	0.000	< 0.200		0.796	0.800	99.4	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.803	0.800	100.4	60.0	120	
Malathion	0.000	< 0.100		0.392	0.400	98.1	60.0	120	
Metalaxyl	0.000	< 0.100		0.400	0.400	100.0	60.0	120	
Methiocarb	0.000	< 0.100		0.399	0.400	99.8	60.0	120	
Methomyl	0.000	< 0.200		0.819	0.800	102.4	60.0	120	
MGK-264	0.000	< 0.100		0.395	0.400	98.6	50.0	150	
Myclobutanil	0.000	< 0.100		0.398	0.400	99.6	60.0	120	
Naled	0.000	< 0.250		0.984	1.000	98.4	50.0	150	
Oxamyl	0.000	< 0.500		2.004	2.000	100.2	60.0	120	
Paclobutrazole	0.000	< 0.200		0.783	0.800	97.9	60.0	120	
Parathion-Methyl	0.000	< 0.100		0.409	0.400	102.2	50.0	150	
Permethrin	0.000	< 0.100		0.383	0.400	95.8	50.0	150	
Phosmet	0.000	< 0.100		0.401	0.400	100.3	50.0	150	
Piperonyl butoxide	0.000	< 0.500		2.064	2.000	103.2	60.0	120	
Prallethrin	0.000	< 0.100		0.402	0.400	100.4	60.0	120	
Propiconazole	0.000	< 0.200		0.815	0.800	101.9	60.0	120	
Propoxur	0.000	< 0.100		0.399	0.400	99.9	60.0	120	
Pyrethrin (Summe)	0.001	< 0.100		0.490	0.488	100.4	60.0	120	
Pyridaben	0.000	< 0.100		0.386	0.400	96.6	50.0	150	
Spinosad	0.000	< 0.100		0.381	0.388	98.2	50.0	150	
Spiromesifen	0.000	< 0.100		0.383	0.400	95.9	60.0	120	
Spirotetramat	0.000	< 0.100		0.385	0.400	96.2	60.0	120	
Spiroxamine	0.000	< 0.200		0.788	0.800	98.5	60.0	120	
Tebuconazole	0.000	< 0.200		0.800	0.800	100.0	60.0	120	
Thiacloprid	0.000	< 0.100		0.395	0.400	98.8	60.0	120	
Thiamethoxam	0.000	< 0.100		0.414	0.400	103.6	60.0	120	
Trifloxystrobin	0.000	< 0.100		0.393	0.400	98.2	60.0	120	

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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503-254-1794

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 — **Units:** mg/Kg — **Batch ID:** 2300273

Matrix Spike/Matrix Spike Duplicate Recoveries — **Sample ID:** 23-000025-0001

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.938	0.979	1.000	4.2%	< 30	93.8%	97.9%	50 - 150	
Acephate	0.000	0.746	0.743	0.800	0.4%	< 30	93.3%	92.9%	50 - 150	
Acequinocyl	0.000	3.577	3.754	4.000	4.8%	< 30	89.4%	93.9%	50 - 150	
Acetamiprid	0.000	0.383	0.383	0.400	0.2%	< 30	95.9%	95.7%	50 - 150	
Aldicarb	0.000	0.809	0.823	0.800	1.7%	< 30	101.2%	102.8%	50 - 150	
Azoxystrobin	0.000	0.369	0.371	0.400	0.5%	< 30	92.2%	92.6%	50 - 150	
Bifenazate	0.000	0.386	0.397	0.400	2.8%	< 30	96.5%	99.3%	50 - 150	
Bifenthrin	0.000	0.362	0.373	0.400	3.1%	< 30	90.5%	93.3%	50 - 150	
Boscalid	0.000	0.758	0.766	0.800	1.1%	< 30	94.8%	95.8%	50 - 150	
Carbaryl	0.000	0.377	0.391	0.400	3.6%	< 30	94.3%	97.7%	50 - 150	
Carbofuran	0.000	0.368	0.380	0.400	3.1%	< 30	92.0%	94.9%	50 - 150	
Chlorantraniliprole	0.000	0.375	0.391	0.400	4.1%	< 30	93.8%	97.8%	50 - 150	
Chlorfenapyr	0.000	1.900	1.861	2.000	2.1%	< 30	95.0%	93.1%	50 - 150	
Chlorpyrifos	0.000	0.333	0.345	0.400	3.4%	< 30	83.4%	86.2%	50 - 150	
Clofentezine	0.000	0.054	0.052	0.400	3.8%	< 30	13.4%	12.9%	50 - 150	Q
Cyfluthrin	0.000	1.975	2.108	2.000	6.5%	< 30	98.8%	105.4%	30 - 150	
Cypermethrin	0.000	1.931	2.012	2.000	4.1%	< 30	96.5%	100.6%	50 - 150	
Daminozide	0.000	0.650	0.672	2.000	3.3%	< 30	32.5%	33.6%	30 - 150	
Diazinon	0.000	0.324	0.341	0.400	5.1%	< 30	81.0%	85.2%	50 - 150	
Dichlorvos	0.000	1.890	1.963	2.000	3.8%	< 30	94.5%	98.1%	50 - 150	
Dimethoate	0.000	0.381	0.389	0.400	1.9%	< 30	95.3%	97.2%	50 - 150	
Ethoprophos	0.000	0.375	0.376	0.400	0.1%	< 30	93.8%	93.9%	50 - 150	
Etofenprox	0.000	0.709	0.728	0.800	2.6%	< 30	88.6%	91.0%	50 - 150	
Etoxazole	0.000	0.363	0.375	0.400	3.4%	< 30	90.6%	93.8%	50 - 150	
Fenoxycarb	0.000	0.368	0.373	0.400	1.3%	< 30	92.0%	93.2%	50 - 150	
Fenpyroximate	0.000	0.808	0.826	0.800	2.3%	< 30	101.0%	103.3%	50 - 150	
Fipronil	0.000	0.865	0.903	0.800	4.3%	< 30	108.1%	112.9%	50 - 150	
Flonicamid	0.000	1.014	1.030	1.000	1.6%	< 30	101.4%	103.0%	50 - 150	
Fludioxonil	0.000	0.765	0.758	0.800	0.9%	< 30	95.6%	94.8%	50 - 150	
Hexythiazox	0.000	0.831	0.824	1.000	0.9%	< 30	83.1%	82.4%	50 - 150	
Imazalil	0.000	0.379	0.390	0.400	2.9%	< 30	94.8%	97.6%	50 - 150	
Imidacloprid	0.000	0.739	0.764	0.800	3.4%	< 30	92.4%	95.5%	50 - 150	
Kresoxim-methyl	0.000	0.740	0.761	0.800	2.8%	< 30	92.5%	95.2%	50 - 150	
Malathion	0.000	0.370	0.383	0.400	3.4%	< 30	92.6%	95.8%	50 - 150	
Metalaxyl	0.000	0.380	0.382	0.400	0.4%	< 30	95.1%	95.5%	50 - 150	
Methiocarb	0.000	0.379	0.386	0.400	1.9%	< 30	94.7%	96.5%	50 - 150	
Methomyl	0.000	0.817	0.811	0.800	0.8%	< 30	102.1%	101.3%	50 - 150	
MGK-264	0.000	0.369	0.369	0.400	0.1%	< 30	92.2%	92.3%	50 - 150	
Myclobutanil	0.000	0.366	0.388	0.400	5.8%	< 30	91.5%	97.0%	50 - 150	
Naled	0.000	0.930	0.963	1.000	3.5%	< 30	93.0%	96.3%	50 - 150	
Oxamyl	0.000	1.968	2.071	2.000	5.1%	< 30	98.4%	103.5%	50 - 150	
Paclobutrazole	0.000	0.755	0.776	0.800	2.7%	< 30	94.4%	97.0%	50 - 150	
Parathion-Methyl	0.000	0.384	0.407	0.400	6.0%	< 30	95.9%	101.8%	30 - 150	
Permethrin	0.000	0.363	0.385	0.400	5.9%	< 30	90.6%	96.2%	50 - 150	
Phosmet	0.000	0.378	0.375	0.400	0.6%	< 30	94.4%	93.8%	50 - 150	
Piperonyl butoxide	0.000	1.815	1.959	2.000	7.6%	< 30	90.8%	98.0%	50 - 150	
Prallethrin	0.000	0.369	0.382	0.400	3.6%	< 30	92.2%	95.6%	50 - 150	
Propiconazole	0.000	0.751	0.766	0.800	1.9%	< 30	93.9%	95.8%	50 - 150	
Propoxur	0.000	0.379	0.389	0.400	2.6%	< 30	94.7%	97.2%	50 - 150	
Pyrethrin (Summe)	0.000	0.631	0.643	0.488	1.9%	< 30	129.3%	131.7%	50 - 150	
Pyridaben	0.000	0.369	0.372	0.400	1.0%	< 30	92.2%	93.1%	50 - 150	
Spinosad	0.000	0.365	0.379	0.388	3.7%	< 30	94.1%	97.6%	50 - 150	
Spiromesifen	0.000	0.360	0.372	0.400	3.3%	< 30	89.9%	93.0%	50 - 150	
Spirotetramat	0.000	0.367	0.371	0.400	1.0%	< 30	91.8%	92.8%	50 - 150	
Spiroxamine	0.000	0.749	0.773	0.800	3.2%	< 30	93.6%	96.7%	50 - 150	
Tebuconazole	0.000	0.762	0.767	0.800	0.8%	< 30	95.2%	95.9%	50 - 150	
Thiacloprid	0.000	0.380	0.390	0.400	2.4%	< 30	95.1%	97.4%	50 - 150	
Thiamethoxam	0.000	0.410	0.410	0.400	0.1%	< 30	102.5%	102.5%	50 - 150	
Trifloxystrobin	0.000	0.336	0.351	0.400	4.3%	< 30	84.1%	87.8%	50 - 150	

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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2300453

Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**
Propane	ND	<	200		584	572	µg/g	102.1	60	-	120	
Isobutane	ND	<	200		708	731	µg/g	96.9	60	-	120	
Butane	ND	<	200		687	731	µg/g	94.0	60	-	120	
2,2-Dimethylpropane	ND	<	200		933	936	µg/g	99.7	60	-	120	
Methanol	ND	<	200		1650	1620	µg/g	101.9	60	-	120	
Ethylene Oxide	ND	<	30		56.3	56.2	µg/g	100.2	60	-	120	
2-Methylbutane	ND	<	200		1370	1610	µg/g	85.1	60	-	120	
Pentane	ND	<	200		1350	1600	µg/g	84.4	60	-	120	
Ethanol	ND	<	200		1410	1610	µg/g	87.6	70	-	130	
Ethyl Ether	ND	<	200		1460	1630	µg/g	89.6	60	-	120	
2,2-Dimethylbutane	ND	<	30		146	171	µg/g	85.4	60	-	120	
Acetone	ND	<	200		1520	1630	µg/g	93.3	60	-	120	
2-Propanol	ND	<	200		1630	1620	µg/g	100.6	60	-	120	
Ethyl Formate	ND	<	500		1650	1670	µg/g	98.8	70	-	130	
Acetonitrile	ND	<	100		456	498	µg/g	91.6	60	-	120	
Methyl Acetate	ND	<	500		1600	1730	µg/g	92.5	70	-	130	
2,3-Dimethylbutane	ND	<	30		155	171	µg/g	90.6	60	-	120	
Dichloromethane	ND	<	60		449	483	µg/g	93.0	60	-	120	
2-Methylpentane	ND	<	30		144	168	µg/g	85.7	60	-	120	
MTBE	ND	<	500		1550	1650	µg/g	93.9	70	-	130	
3-Methylpentane	ND	<	30		137	167	µg/g	82.0	60	-	120	
Hexane	ND	<	30		202	182	µg/g	111.0	60	-	120	
1-Propanol	ND	<	500		1690	1620	µg/g	104.3	70	-	130	
Methylethylketone	ND	<	500		1600	1620	µg/g	98.8	70	-	130	
Ethyl acetate	ND	<	200		1610	1610	µg/g	100.0	60	-	120	
2-Butanol	ND	<	200		1600	1600	µg/g	100.0	60	-	120	
Tetrahydrofuran	ND	<	100		384	483	µg/g	79.5	60	-	120	
Cyclohexane	ND	<	200		1370	1610	µg/g	85.1	60	-	120	
2-methyl-1-propanol	ND	<	500		1780	1620	µg/g	109.9	70	-	130	
Benzene	ND	<	1		5.06	5.02	µg/g	100.8	60	-	120	
Isopropyl Acetate	ND	<	200		1510	1620	µg/g	93.2	60	-	120	
Heptane	ND	<	200		1520	1610	µg/g	94.4	60	-	120	
1-Butanol	ND	<	500		1620	1630	µg/g	99.4	70	-	130	
Propyl Acetate	ND	<	500		1660	1610	µg/g	103.1	70	-	130	
1,4-Dioxane	ND	<	100		368	491	µg/g	74.9	60	-	120	
2-Ethoxyethanol	ND	<	30		345	181	µg/g	190.6	60	-	120	Q1
Methylisobutylketone	ND	<	500		1730	1620	µg/g	106.8	70	-	130	
3-Methyl-1-butanol	ND	<	500		1420	1630	µg/g	87.1	70	-	130	
Ethylene Glycol	ND	<	200		374	484	µg/g	77.3	60	-	120	
Toluene	ND	<	100		405	485	µg/g	83.5	60	-	120	
Isobutyl Acetate	ND	<	500		1610	1630	µg/g	98.8	70	-	130	
1-Pentanol	ND	<	500		1460	1620	µg/g	90.1	70	-	130	
Butyl Acetate	ND	<	500		1620	1620	µg/g	100.0	70	-	130	
Ethylbenzene	ND	<	200		818	969	µg/g	84.4	60	-	120	
m,p-Xylene	ND	<	200		724	994	µg/g	72.8	60	-	120	
o-Xylene	ND	<	200		687	967	µg/g	71.0	60	-	120	
Cumene	ND	<	30		97.2	171	µg/g	56.8	60	-	120	Q6
Anisole	ND	<	500		1520	1630	µg/g	93.3	70	-	130	
DMSO	ND	<	500		1610	1680	µg/g	95.8	70	-	130	
1,2-dimethoxyethane	ND	<	50		176	169	µg/g	104.1	70	-	130	
Triethylamine	ND	<	500		1560	1630	µg/g	95.7	70	-	130	
N,N-dimethylformamide	ND	<	150		453	482	µg/g	94.0	70	-	130	
N,N-dimethylacetamide	ND	<	150		415	510	µg/g	81.4	70	-	130	
Pyridine	ND	<	50		209	203	µg/g	103.0	70	-	130	
Sulfolane	ND	<	50		172	172	µg/g	100.0	70	-	130	
1,2-Dichloroethane	ND	<	1		1.16	1	µg/g	116.0	70	-	130	
Chloroform	ND	<	1		1.17	1	µg/g	117.0	70	-	130	
Trichloroethylene	ND	<	1		1.18	1	µg/g	118.0	70	-	130	
1,1-Dichloroethane	ND	<	1		1.1	1	µg/g	110.0	70	-	130	

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QC - Sample Duplicate **Sample ID: 22-015692-0001**

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
Q1 - Quality control result biased high. Only non-detect samples reported.
Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

µg/g- Microgram per gram or ppm

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