



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

Report Number: 22-009987/D003.R000
Report Date: 08/29/2022
ORELAP#: OR100028
Purchase Order:
Received: 08/22/22 10:52

Customer:

Product identity: Blue Raspberry Square 2282022LJB0000491 50mg D8

Client/Metric ID: .

Laboratory ID: 22-009987-0003

Summary

Potency:

Analyte per 3.3g	Result	Limits	Units	Status	
Δ8-THC per 3.3g	49.8		mg/3.3g		CBD-Total per Serving Size <LOQ
					THC-Total per Serving Size <LOQ
					(Reported in milligrams per serving)

Residual Solvents:

Analyte	Result (μg/g)	Limits (μg/g)	Status
Methylene chloride	144	600	pass

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: Lucy J
751 Port America Pl #425
Grapevine Texas 76051
United States of America (USA)
Product identity: Blue Raspberry Square 2282022LJB0000491 50mg D8
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-009987-0003
Evidence of Cooling: No
Temp: 23.9 °C
Relinquished by: UPS
Serving Size #1: 3.3 g

Sample Results

Potency per 3.3g	Method: J AOAC 2015 V98-6 (mod) ^b		Units mg/se	Batch: 2207168	Analyze: 8/24/22 11:27:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBD per 3.3g	< LOQ		mg/3.3g	0.107	
CBD-A per 3.3g	< LOQ		mg/3.3g	0.107	
CBD-Total per 3.3g	< LOQ		mg/3.3g	0.201	
CBG per 3.3g	< LOQ		mg/3.3g	0.107	
CBG-A per 3.3g	< LOQ		mg/3.3g	0.107	
CBG-Total per 3.3g	< LOQ		mg/3.3g	0.200	
CBN per 3.3g	< LOQ		mg/3.3g	0.107	
Δ8-THC per 3.3g	49.8		mg/3.3g	1.07	
Δ9-THC per 3.3g	< LOQ		mg/3.3g	0.107	
THC-A per 3.3g	< LOQ		mg/3.3g	0.107	
THC-Total per 3.3g	< LOQ		mg/3.3g	0.201	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2207106	08/25/22 AOAC 990.12 (Petrifilm) ^p		
E.coli	< LOQ		cfu/g	10	2207104	08/25/22 AOAC 991.14 (Petrifilm) ^p		
Total Coliforms	< LOQ		cfu/g	10	2207104	08/25/22 AOAC 991.14 (Petrifilm) ^p		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2207105	08/26/22 AOAC 2014.05 (RAPID) ^p		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2207105	08/26/22 AOAC 2014.05 (RAPID) ^p		



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Solvents						Method: Residual Solvents by GC/MS ^b		Batch 2207253		Analyze 08/26/22 01:48 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	144	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 2207221	Analyze 08/26/22 08:02 AM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [¥]	< LOQ	0.50	0.250	pass		Acephate [¥]	< LOQ	0.40	0.250	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		Etiozazole [¥]	< 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	0.200	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	0.200	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	0.0190	2207220	08/25/22	AOAC 2013.06 (mod.) ^b	pass		
Cadmium	< LOQ	0.200	mg/kg	0.0190	2207220	08/25/22	AOAC 2013.06 (mod.) ^b	pass		
Lead	< LOQ	0.500	mg/kg	0.0190	2207220	08/25/22	AOAC 2013.06 (mod.) ^b	pass		
Mercury	< LOQ	0.100	mg/kg	0.00952	2207220	08/25/22	AOAC 2013.06 (mod.) ^b	pass		



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These test results are representative of the individual sample selected and submitted by the client.

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

µg/g = Microgram per gram

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

mg/3.3g = Milligram per 3.3g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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Hemp & Cannabis: Usable / Extract / Finished Product
Chain of Custody Record

ORELAP ID: OR100028 ANAB ISO 17025 ID: AT-1508

Document Control ID: 2832 Revision: 5
Effective: 01/04/2022

Company: Lucy J Contact: Deanna Petrin Address: 8101 Royal Ridge Parkway City: Irving State: TX Zip Code: 75063 ☒ Email Results: DROPBOX deanna@devmgf.com ☒ Ph: (469) - 373 - 3200 <i>Billing Contact (if different)</i> Name: CC AUTH ON FILE Email: Address: City: State: Zip: Ph: () -			Analysis Requested <table><tr><td>Pesticides Oregon (P2120)</td><td>Residual Solvents Oregon (H0008)</td><td>Heavy Metals (H0013)</td><td>Mycotoxins (H0042)</td><td>Micro Profile D (M1010)</td><td>Terpenes (H0030)</td><td>Potency Basic (H0014)</td><td>Potency Basic + Expanded (H0010)</td><td>Potency Basic + ADCs (H0015)</td><td>Other:</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										Pesticides Oregon (P2120)	Residual Solvents Oregon (H0008)	Heavy Metals (H0013)	Mycotoxins (H0042)	Micro Profile D (M1010)	Terpenes (H0030)	Potency Basic (H0014)	Potency Basic + Expanded (H0010)	Potency Basic + ADCs (H0015)	Other:											PO Number: Project ID: Batch ID: Sampled by: Custom Reporting: Source Material: ☒ - Ind. Hemp product ☐ - Rec. Cannabis Reporting Type: ☐ - Compliance ☒ - R&D Report to: ☐ - METRC ☐ - ODA ☐ - USDA ☐ - Other: Turnaround time (TAT - Business Days): ☐ - 5BD ☒ - 3BD* ☐ - 2BD* <i>*Check for availability</i>		
Pesticides Oregon (P2120)	Residual Solvents Oregon (H0008)	Heavy Metals (H0013)	Mycotoxins (H0042)	Micro Profile D (M1010)	Terpenes (H0030)	Potency Basic (H0014)	Potency Basic + Expanded (H0010)	Potency Basic + ADCs (H0015)	Other:																										
Lab ID	Client Sample Identification	Sample date											Material Type †	Weight (Units)	Comments/Metric ID																				
	Pineapple Square 2282022LJB0000492 50mg D8	08/16/22	✓	✓	✓	✓	✓	✓					E	39.6g	Contains Active as Noted																				
	Strawberry Square 2282022LJB0000494 50mg D8	08/17/22	✓	✓	✓	✓	✓	✓					E	39.6g	Please report in mg/serving																				
	Blue Raspberry Square 2282022LJB0000491 50mg D8	08/17/22	✓	✓	✓	✓	✓	✓					E	39.6g																					
	Mango Square 2282022LJB0000493 50mg D8	08/17/22	✓	✓	✓	✓	✓	✓					E	39.6g	Standard Serving Sizes: D8: 3.3g D9: 3.75g/3.3g HHC: 3.3g D10: 3.3g THCO: 3.3g CBD:3.3g Mother Liquor: 3.3g Diamonds: 5g Hearts: 6g																				
Signature - Relinquished By:			Date	Time	Signature - Received By:			Date	Time	Lab Use Only:																									
Deanna Petrin			08/17/22		AC			8-22	10:52	☒ Shipped Via: UPS or ☐ Client drop off Evidence of cooling: ☐ Yes ☒ No - Temp (°C): 23.9 Sample in good condition: ☒ Yes ☐ No Payment: ☐ Cash ☐ Check ☐ CC ☐ Net: Prelog storage:																									

† - Material Type Codes: Plant Material (P) ; Isolate (I) ; Concentrate/Extract (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B) ; Vapor Product (V)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of service](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms
12423 NE Whitaker Way
Portland, OR 97230

P: (503) 254-1794 | Fax: (503) 254-1452
info@columbialaboratories.com

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Document ID: 3177 Revision: 3
Effective: 04/26/2022
Page 1 of 1

PACKAGE RECEIVING FORM

Delivery Date: X 8-22 X Same as Opened By Date ☐ Unsure

How was the package delivered?

UPS FEDEX USPS DHL OTHER: _____

Tracking Number: 1Z V78 Y00 02 0229 0845

		CIRCLE ONE	
1) Was package sealed with no evidence of holes/tampering?	☒ YES	☐ NO	Further custody seal/tampering notes: _____
2) Was packing material used?	☒ YES	☐ NO	If YES: ☐ PEANUTS ☐ BUBBLE ☐ WRAP ☒ FOAM PAPER
3) Was a Complete Chain of Custody (COC) received?	☒ YES	☐ NO	Comment (PT?, Email?): _____
4) Sample temperature upon arrival?	<u>23.9</u> °C		
5) Evidence of cooling?	☐ YES	☒ NO	If YES, What kind? ☐ ICE ☐ FREEZER PACK ☐ DRY ICE Insulation? ☐ PLASTIC COOLER ☐ STYROFOAM ☐ OTHER: _____
6) Were sample containers sealed in separate plastic bags/secondary containment?	☐ YES	☒ NO	
7) Did sample containers arrive in good condition?	☒ YES	☐ NO	If NO: ☐ LEAKED ☐ BROKEN ☐ OTHER: _____ If NO: Suspect contamination of other samples? ☐ YES ☐ NO
8) Sample labels present?	☒ YES	☐ NO	
9) Do sample labels agree with COC?	☒ YES	☐ NO	If NO, number of sample containers received: _____

Sample pre-log location:

R39 R44 F44 R99 CANNA SHELF FOOD SHELF Other: _____

Other Notes:

Received By (initials): AC Date: 8-22 Time: 10:52



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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: 2207168									
Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	1	0.0330	0.033	%	99.1	80.0 - 120	Acceptable		
CBDV	1	0.0344	0.033	%	103	80.0 - 120	Acceptable		
CBE	1	0.0320	0.033	%	96.1	80.0 - 120	Acceptable		
CBD A	1	0.0325	0.032	%	101	90.0 - 110	Acceptable		
CBGA	1	0.0324	0.032	%	101	80.0 - 120	Acceptable		
CBG	1	0.0352	0.034	%	104	80.0 - 120	Acceptable		
CBD	1	0.0360	0.033	%	108	90.0 - 110	Acceptable		
THCV	1	0.0334	0.033	%	100	80.0 - 120	Acceptable		
d8THCV	1	0.0342	0.033	%	103	80.0 - 120	Acceptable		
THCVA	1	0.0316	0.033	%	94.8	80.0 - 120	Acceptable		
CBN	1	0.0360	0.034	%	105	90.0 - 110	Acceptable		
exo-THC	1	0.0325	0.033	%	97.4	80.0 - 120	Acceptable		
d9THC	1	0.0370	0.037	%	100	90.0 - 110	Acceptable		
d8THC	1	0.0335	0.033	%	100	90.0 - 110	Acceptable		
CBL	1	0.0307	0.033	%	92.1	80.0 - 120	Acceptable		
CBC	1	0.0334	0.033	%	100	80.0 - 120	Acceptable		
THCA	1	0.0317	0.032	%	100	90.0 - 110	Acceptable		
CBCA	1	0.0335	0.033	%	101	80.0 - 120	Acceptable		
CBLA	1	0.0331	0.033	%	99.3	80.0 - 120	Acceptable		
CBT	1	0.0321	0.033	%	96.3	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	
CBD A	<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	
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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Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2207168								
Sample Duplicate								
Sample ID: 22-009968-0001								
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	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0075	0.0072	0.003	%	4.48	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 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	0.140	0.133	0.003	%	5.43	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.258	0.243	0.003	%	5.69	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0053	0.0050	0.003	%	5.17	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<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: 2207221									
Method Blank				Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes	
Abamectin	0.000	< 0.250		1.055	1.000	105.5	50.0	150	
Acephate	0.000	< 0.250		1.128	1.000	112.8	60.0	120	
Acequinocyl	0.000	< 1.000		3.832	4.000	95.8	40.0	160	
Acetamiprid	0.000	< 0.100		0.441	0.400	110.2	60.0	120	
Aldicarb	0.000	< 0.200		0.844	0.800	105.5	60.0	120	
Azoxystrobin	0.000	< 0.100		0.443	0.400	110.7	60.0	120	
Bifenazate	0.000	< 0.100		0.421	0.400	105.2	60.0	120	
Bifenthrin	0.000	< 0.100		0.409	0.400	102.4	50.0	150	
Boscalid	0.000	< 0.200		0.832	0.800	104.1	60.0	120	
Carbaryl	0.000	< 0.100		0.423	0.400	105.9	60.0	120	
Carbofuran	0.000	< 0.100		0.427	0.400	106.8	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.402	0.400	100.4	60.0	120	
Chlorfenvapir	0.000	< 0.500		2.256	2.000	112.8	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.403	0.400	100.8	60.0	120	
Clofentazine	0.000	< 0.100		0.118	0.400	29.5	60.0	120	Q6
Cyfluthrin	0.000	< 0.500		2.037	2.000	101.9	50.0	150	
Cypermethrin	0.000	< 0.500		2.083	2.000	104.2	50.0	150	
Daminozide	0.000	< 0.500		0.677	2.000	33.9	60.0	120	Q6
Diazinon	0.000	< 0.100		0.424	0.400	105.9	60.0	120	
Dichlorvos	0.000	< 0.500		2.450	2.000	122.5	60.0	120	Q1
Dimethoate	0.000	< 0.100		0.436	0.400	108.9	60.0	120	
Ethoprophos	0.000	< 0.100		0.414	0.400	103.6	60.0	120	
Etofenprox	0.000	< 0.200		0.821	0.800	102.7	50.0	150	
Etoxazole	0.000	< 0.100		0.434	0.400	108.6	60.0	120	
Fenoxycarb	0.000	< 0.100		0.424	0.400	106.0	60.0	120	
Fenpyroximate	0.000	< 0.200		0.828	0.800	103.6	60.0	120	
Fipronil	0.009	< 0.200		0.828	0.800	103.5	60.0	120	
Flonicamid	0.000	< 0.250		1.009	1.000	100.9	60.0	120	
Fludioxonil	0.000	< 0.200		0.821	0.800	102.6	50.0	150	
Hexythiazox	0.000	< 0.250		1.064	1.000	106.4	60.0	120	
Imazalil	0.000	< 0.100		0.420	0.400	105.0	60.0	120	
Imidacloprid	0.000	< 0.200		0.800	0.800	100.0	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.885	0.800	110.6	60.0	120	
Malathion	0.000	< 0.100		0.449	0.400	112.3	60.0	120	
Metaxyl	0.000	< 0.100		0.434	0.400	108.4	60.0	120	
Methiocarb	0.000	< 0.100		0.435	0.400	108.6	60.0	120	
Methomyl	0.000	< 0.200		0.843	0.800	105.3	60.0	120	
MGK-264	0.000	< 0.100		0.429	0.400	107.3	50.0	150	
Myclobutanil	0.000	< 0.100		0.430	0.400	107.6	60.0	120	
Naled	0.000	< 0.250		0.309	1.000	30.9	50.0	150	Q6
Oxamyl	0.000	< 0.500		2.015	2.000	100.7	60.0	120	
Paclobutrazole	0.000	< 0.200		0.914	0.800	114.2	60.0	120	
Parathion-Methyl	0.000	< 0.200		0.980	0.800	122.5	50.0	150	
Permethrin	0.000	< 0.100		0.396	0.400	99.0	50.0	150	
Phosmet	0.000	< 0.100		0.414	0.400	103.4	50.0	150	
Piperonyl butoxide	0.000	< 0.500		2.328	2.000	116.4	60.0	120	
Prallethrin	0.000	< 0.100		0.413	0.400	103.3	60.0	120	
Propiconazole	0.000	< 0.200		0.811	0.800	101.4	60.0	120	
Propoxur	0.000	< 0.100		0.437	0.400	109.2	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.435	0.413	105.4	60.0	120	
Pyridaben	0.000	< 0.100		0.420	0.400	104.9	50.0	150	
Spinosad	0.000	< 0.100		0.407	0.388	104.9	50.0	150	
Spiromesifen	0.000	< 0.100		0.432	0.400	107.9	60.0	120	
Spirotetramat	0.000	< 0.100		0.409	0.400	102.3	60.0	120	
Spiroxamine	0.000	< 0.200		0.883	0.800	110.4	60.0	120	
Tebuconazole	0.000	< 0.200		0.867	0.800	108.3	60.0	120	
Thiacloprid	0.000	< 0.100		0.440	0.400	109.9	60.0	120	
Thiamethoxam	0.000	< 0.100		0.406	0.400	101.5	60.0	120	
Trifloxystrobin	0.000	< 0.100		0.417	0.400	104.2	60.0	120	



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

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662										
Units: mg/Kg										
Batch ID: 2207221										
Matrix Spike/Matrix Spike Duplicate Recoveries										
Sample ID: 22-010023-0001										
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.838	0.814	1.000	2.9%	< 30	83.8%	81.4%	50 - 150	
Acephate	0.050	1.318	1.268	1.000	4.0%	< 30	126.8%	121.8%	50 - 150	
Acequinocyl	0.000	4.766	4.786	4.000	0.4%	< 30	119.2%	119.7%	50 - 150	
Acetamiprid	0.000	0.497	0.499	0.400	0.3%	< 30	124.3%	124.6%	50 - 150	
Aldicarb	0.000	0.904	0.924	0.800	2.1%	< 30	113.0%	115.4%	50 - 150	
Azoxystrobin	0.000	0.451	0.435	0.400	3.7%	< 30	112.7%	108.7%	50 - 150	
Bifenazate	0.000	0.403	0.405	0.400	0.6%	< 30	100.8%	101.4%	50 - 150	
Bifenthrin	0.000	0.422	0.405	0.400	4.0%	< 30	105.4%	101.3%	50 - 150	
Boscalid	0.000	0.728	0.753	0.800	3.4%	< 30	90.9%	94.1%	50 - 150	
Carbaryl	0.000	0.479	0.492	0.400	2.8%	< 30	119.8%	123.1%	50 - 150	
Carbofuran	0.000	0.481	0.491	0.400	1.9%	< 30	120.4%	122.7%	50 - 150	
Chlorantraniliprole	0.000	0.347	0.352	0.400	1.5%	< 30	86.8%	88.1%	50 - 150	
Chlorfenvapir	0.000	2.119	1.941	2.000	8.8%	< 30	106.0%	97.0%	50 - 150	
Chlorpyrifos	0.000	0.372	0.348	0.400	6.5%	< 30	92.9%	87.0%	50 - 150	
Clofentazine	0.000	0.238	0.197	0.400	19.0%	< 30	59.5%	49.2%	50 - 150	Q
Cyfluthrin	0.000	2.193	2.166	2.000	1.2%	< 30	109.6%	108.3%	30 - 150	
Cypermethrin	0.000	2.113	2.094	2.000	0.9%	< 30	105.6%	104.7%	50 - 150	
Daminozide	0.000	1.275	1.207	2.000	5.4%	< 30	63.7%	60.4%	30 - 150	
Diazinon	0.000	0.416	0.407	0.400	2.2%	< 30	104.1%	101.8%	50 - 150	
Dichlorvos	0.000	2.269	2.226	2.000	1.9%	< 30	113.4%	111.3%	50 - 150	
Dimethoate	0.000	0.474	0.466	0.400	1.8%	< 30	118.5%	116.4%	50 - 150	
Ethoprophos	0.000	0.426	0.409	0.400	4.1%	< 30	106.5%	102.2%	50 - 150	
Etofenprox	0.000	0.894	0.867	0.800	3.1%	< 30	111.7%	108.4%	50 - 150	
Etoxazole	0.000	0.431	0.432	0.400	0.3%	< 30	107.7%	108.0%	50 - 150	
Fenoxycarb	0.000	0.437	0.425	0.400	2.7%	< 30	109.1%	106.2%	50 - 150	
Fenpyroximate	0.000	0.738	0.730	0.800	1.1%	< 30	92.3%	91.3%	50 - 150	
Fipronil	0.000	1.004	1.001	0.800	0.3%	< 30	125.5%	125.1%	50 - 150	
Fonicamid	0.000	0.979	0.893	1.000	9.2%	< 30	97.9%	89.3%	50 - 150	
Fludioxonil	0.000	0.831	0.810	0.800	2.5%	< 30	103.9%	101.3%	50 - 150	
Hexythiazox	0.000	1.610	1.596	1.000	0.9%	< 30	161.0%	159.6%	50 - 150	Q
Imazalil	0.000	0.476	0.478	0.400	0.5%	< 30	119.0%	119.6%	50 - 150	
Imidacloprid	0.000	0.598	0.590	0.800	1.3%	< 30	74.7%	73.7%	50 - 150	
Kresoxim-methyl	0.000	0.876	0.835	0.800	4.8%	< 30	109.5%	104.3%	50 - 150	
Malathion	0.000	0.456	0.449	0.400	1.5%	< 30	114.0%	112.2%	50 - 150	
Metaxyl	0.000	0.459	0.456	0.400	0.6%	< 30	114.6%	113.9%	50 - 150	
Methiocarb	0.000	0.417	0.429	0.400	2.8%	< 30	104.2%	107.3%	50 - 150	
Methomyl	0.000	0.831	0.829	0.800	0.3%	< 30	103.9%	103.6%	50 - 150	
MGK-264	0.000	0.437	0.418	0.400	4.5%	< 30	109.4%	104.5%	50 - 150	
Myclobutanil	0.000	0.390	0.383	0.400	1.9%	< 30	97.6%	95.7%	50 - 150	
Naled	0.000	1.159	1.160	1.000	0.1%	< 30	115.9%	116.0%	50 - 150	
Oxamyl	0.000	2.034	1.923	2.000	5.6%	< 30	101.7%	96.1%	50 - 150	
Paclobutrazole	0.000	0.944	0.956	0.800	1.3%	< 30	118.0%	119.6%	50 - 150	
Parathion-Methyl	0.000	0.911	0.946	0.800	3.7%	< 30	113.9%	118.2%	30 - 150	
Permethrin	0.000	0.379	0.368	0.400	2.9%	< 30	94.7%	92.0%	50 - 150	
Phosmet	0.000	0.404	0.393	0.400	2.6%	< 30	100.9%	98.3%	50 - 150	
Piperonyl butoxide	0.000	2.223	2.187	2.000	1.6%	< 30	111.1%	109.3%	50 - 150	
Prallethrin	0.000	0.453	0.419	0.400	7.9%	< 30	113.3%	104.7%	50 - 150	
Propiconazole	0.000	0.824	0.809	0.800	1.8%	< 30	103.0%	101.2%	50 - 150	
Propoxur	0.000	0.472	0.452	0.400	4.4%	< 30	118.0%	113.0%	50 - 150	
Pyrethrin (Summe)	0.000	0.350	0.339	0.413	3.2%	< 30	84.9%	82.2%	50 - 150	
Pyridaben	0.000	0.478	0.474	0.400	0.8%	< 30	119.6%	118.6%	50 - 150	
Spirosad	0.000	0.439	0.435	0.388	1.0%	< 30	113.2%	112.1%	50 - 150	
Spiromesifen	0.000	0.667	0.676	0.400	1.4%	< 30	166.7%	169.1%	50 - 150	Q
Spirotetramat	0.000	0.301	0.308	0.400	2.6%	< 30	75.2%	77.1%	50 - 150	
Spiroxamine	0.000	0.897	0.894	0.800	0.4%	< 30	112.1%	111.7%	50 - 150	
Tebuconazole	0.000	0.793	0.806	0.800	1.6%	< 30	99.2%	100.8%	50 - 150	
Thiacloprid	0.000	0.475	0.465	0.400	2.1%	< 30	118.8%	116.3%	50 - 150	
Thiamethoxam	0.000	0.388	0.367	0.400	5.7%	< 30	97.1%	91.7%	50 - 150	
Trifloxystrobin	0.000	0.412	0.395	0.400	4.0%	< 30	102.9%	98.9%	50 - 150	



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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2207253					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		458	572	µg/g	80.1	60 - 120	
Isobutane	ND	< 200		571	731	µg/g	78.1	60 - 120	
Butane	ND	< 200		555	731	µg/g	75.9	60 - 120	
2,2-Dimethylpropane	ND	< 200		742	936	µg/g	79.3	60 - 120	
Methanol	ND	< 200		1230	1650	µg/g	74.5	60 - 120	
Ethylene Oxide	ND	< 30		46.6	56.2	µg/g	82.9	60 - 120	
2-Methylbutane	ND	< 200		982	1620	µg/g	60.6	60 - 120	
Pentane	ND	< 200		1060	1610	µg/g	65.8	60 - 120	
Ethanol	ND	< 200		1290	1620	µg/g	79.6	70 - 130	
Ethyl Ether	ND	< 200		1150	1600	µg/g	71.9	60 - 120	
2,2-Dimethylbutane	ND	< 30		105	167	µg/g	62.9	60 - 120	
Acetone	ND	< 200		1310	1620	µg/g	80.9	60 - 120	
2-Propanol	ND	< 200		1290	1610	µg/g	80.1	60 - 120	
Acetonitrile	ND	< 100		509	635	µg/g	80.2	60 - 120	
2,3-Dimethylbutane	ND	< 30		124	177	µg/g	70.1	60 - 120	
Dichloromethane	ND	< 60		344	498	µg/g	69.1	60 - 120	
2-Methylpentane	ND	< 30		112	166	µg/g	67.5	60 - 120	
3-Methylpentane	ND	< 30		120	175	µg/g	68.6	60 - 120	
Hexane	ND	< 30		130	174	µg/g	74.7	60 - 120	
Ethyl acetate	ND	< 200		1260	1610	µg/g	78.3	60 - 120	
2-Butanol	ND	< 200		1270	1620	µg/g	78.4	60 - 120	
Tetrahydrofuran	ND	< 100		370	507	µg/g	73.0	60 - 120	
Cyclohexane	ND	< 200		1250	1610	µg/g	77.6	60 - 120	
Benzene	ND	< 1		3.87	5.22	µg/g	74.1	60 - 120	
Isopropyl Acetate	ND	< 200		1300	1610	µg/g	80.7	60 - 120	
Heptane	ND	< 200		1250	1610	µg/g	77.6	60 - 120	
1,4-Dioxane	ND	< 100		385	508	µg/g	75.8	60 - 120	
2-Ethoxyethanol	ND	< 30		138	165	µg/g	83.6	60 - 120	
Ethylene Glycol	ND	< 200		388	492	µg/g	78.9	60 - 120	
Toluene	ND	< 100		399	497	µg/g	80.3	60 - 120	
Ethylbenzene	ND	< 200		809	980	µg/g	82.6	60 - 120	
m,p-Xylene	ND	< 200		822	985	µg/g	83.5	60 - 120	
o-Xylene	ND	< 200		821	965	µg/g	85.1	60 - 120	
Cumene	ND	< 30		139	168	µg/g	82.7	60 - 120	
1,2-Dichloroethane	ND	< 1		1.06	1	µg/g	106.0	70 - 130	
Chloroform	ND	< 1		1.07	1	µg/g	107.0	70 - 130	
Trichloroethylene	ND	< 1		1.09	1	µg/g	109.0	70 - 130	



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QC - Sample Duplicate

Sample ID: 22-009754-0001

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	
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	
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	

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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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.