



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



Report Number: 22-006238/D005.R000
Report Date: 06/07/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/31/22 10:44

Customer: Rawsome
Product identity: Pink Lemonade Puck 1452022RWB0000419 10mg D9
Client/Metric ID: .
Laboratory ID: 22-006238-0002

Summary

Potency:

Analyte per 3.75g	Result	Limits	Units	Status	
Δ9-THC per 3.75g	9.56		mg/3.75g		THC-Total per 3.75g 9.56 mg/3.75g
					CBD-Total per 3.75g <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	0.0200	mg/kg	0.500	pass

Microbiology:

Less than LOQ for all analytes.



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Received: 05/31/22 10:44

Customer: Rawsome
 United States of America (USA)
Product identity: Pink Lemonade Puck 1452022RWB0000419 10mg D9
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-006238-0002
Evidence of Cooling: No
Temp: 18.9 °C
Relinquished by: UPS
Serving Size #1: 3.75 g

Sample Results

Potency per 3.75g						Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2204713		Analyze: 6/3/22 10:40:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes				
CBD per 3.75g	< LOQ		mg/3.75g	0.120					
CBD-A per 3.75g	< LOQ		mg/3.75g	0.120					
CBD-Total per 3.75g	< LOQ		mg/3.75g	0.226					
CBG per 3.75g [†]	< LOQ		mg/3.75g	0.120					
CBG-A per 3.75g [†]	< LOQ		mg/3.75g	0.120					
CBG-Total per 3.75g [†]	< LOQ		mg/3.75g	0.224					
CBN per 3.75g	< LOQ		mg/3.75g	0.120					
Δ8-THC per 3.75g [†]	< LOQ		mg/3.75g	0.120					
Δ9-THC per 3.75g	9.56		mg/3.75g	0.120					
THC-A per 3.75g	< LOQ		mg/3.75g	0.120					
THC-Total per 3.75g	9.56		mg/3.75g	0.226					

Microbiology									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2204605	06/03/22	AOAC 990.12 (Petrifilm)		X
E.coli	< LOQ		cfu/g	10	2204603	06/03/22	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2204603	06/03/22	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2204604	06/04/22	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2204604	06/04/22	AOAC 2014.05 (RAPID)		X



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Solvents						Residual Solvents by GC/MS					Units	µg/g	Batch	Analyze 06/07/22 10:15 AM					
Analyte	Method	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) Units mg/kg Batch 2204731 Analyze 06/03/22 01:17 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	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	
Bifentazate	< 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		Fonicamid	< 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		Paclobotrazole	< 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	Analyze	Method	Status	Notes	
Arsenic	< LOQ	0.200	mg/kg	0.0187	2204743	06/03/22	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.200	mg/kg	0.0187	2204743	06/03/22	AOAC 2013.06 (mod.)	pass	X	
Lead	0.0200	0.500	mg/kg	0.0187	2204743	06/03/22	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	0.100	mg/kg	0.00933	2204743	06/03/22	AOAC 2013.06 (mod.)	pass	X	



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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.

† = Analyte not NELAP accredited.

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

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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

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

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

Company: Rawsome Contact: Deanna Petrin Address: 8101 Royal Ridge Parkway City: Irving State: TX Zip Code: 75063 <input checked="" type="checkbox"/> Email Results: DROPBOX deanna@devmgf.com <input checked="" type="checkbox"/> Ph: (469) - 373 - 3200 <i>Billing Contact (if different)</i> Name: CC AUTH ON FILE Email: Address: City: State: Zip: Ph: () -			Analysis Requested 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: <input checked="" type="checkbox"/> - Ind. Hemp product <input type="checkbox"/> - Rec. Cannabis Reporting Type: <input type="checkbox"/> - Compliance <input checked="" type="checkbox"/> - R&D Report to: <input type="checkbox"/> - METRC <input type="checkbox"/> - ODA <input type="checkbox"/> - USDA <input type="checkbox"/> - Other:			Turnaround time (TAT - Business Days): <input type="checkbox"/> - 5BD <input checked="" type="checkbox"/> - 3BD* <input type="checkbox"/> - 2BD* <i>*Check for availability</i>								Material Type † Weight (Units) Comments/Metric ID							
Lab ID	Client Sample Identification	Sample date																
	Pineapple Puck 1452022RWB0000417 10mg D9	05/25/22	✓	✓	✓	✓	✓	✓					E	45g	Contains Active as Noted			
	Pink Lemonade Puck 1452022RWB0000419 10mg D9	05/25/22	✓	✓	✓	✓	✓	✓					E	45g	Please report in mg/serving			
	Mango Puck 1452022RWB0000418 10mg D9	05/25/22	✓	✓	✓	✓	✓	✓					E	45g	Standard Serving Sizes:			
	Watermelon Puck 1452022RWB0000420 10mg D9	05/25/22	✓	✓	✓	✓	✓	✓					E	45g	D8: 3.3g D9: 3.75g 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			05/26/22		AC			5-31	10:44	<input checked="" type="checkbox"/> Shipped Via: UPS or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): 18.9 Sample in good condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Payment: <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: _____ Prelog storage: _____								

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

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Report Number: 22-006238/D005.R000
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Purchase Order:
Received: 05/31/22 10:44

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2204713**

Laboratory Control Sample										
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDVA	1	0.0344	0.033	%	103	80.0	- 120	Acceptable		
CBDV	1	0.0359	0.033	%	108	80.0	- 120	Acceptable		
CBE	1	0.0324	0.033	%	97.3	80.0	- 120	Acceptable		
CBDA	1	0.0327	0.033	%	98.1	90.0	- 110	Acceptable		
CBGA	1	0.0317	0.033	%	95.2	80.0	- 120	Acceptable		
CBG	1	0.0307	0.033	%	92.0	80.0	- 120	Acceptable		
CBD	1	0.0331	0.033	%	99.2	90.0	- 110	Acceptable		
THCV	1	0.0332	0.033	%	99.6	80.0	- 120	Acceptable		
d8THCV	1	0.0333	0.033	%	99.8	80.0	- 120	Acceptable		
THCVA	1	0.0328	0.033	%	98.5	80.0	- 120	Acceptable		
CBN	1	0.0334	0.033	%	100	90.0	- 110	Acceptable		
exo-THC	1	0.0315	0.033	%	94.4	80.0	- 120	Acceptable		
d9THC	1	0.0315	0.033	%	94.5	90.0	- 110	Acceptable		
d8THC	1	0.0301	0.033	%	90.3	80.0	- 120	Acceptable		
CBL	1	0.0303	0.033	%	91.0	80.0	- 120	Acceptable		
CBC	1	0.0329	0.033	%	98.6	80.0	- 120	Acceptable		
THCA	1	0.0332	0.033	%	99.6	90.0	- 110	Acceptable		
CBCA	1	0.0336	0.033	%	101	80.0	- 120	Acceptable		
CBLA	1	0.0346	0.033	%	104	80.0	- 120	Acceptable		
CBT	1	0.0286	0.033	%	85.8	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		
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: 2204713						
Sample Duplicate		Sample ID: 22-006236-0001						
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	
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	<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	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.258	0.259	0.003	%	0.185	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<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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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: 2204731			
Method Blank			Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		1.059	1.000	105.9	50.0	150
Acephate	0.000	< 0.250		0.976	1.000	97.6	60.0	120
Acetamiprid	0.000	< 1.000		3.040	4.000	76.0	40.0	160
Acetamiprid	0.000	< 0.100		0.401	0.400	100.3	60.0	120
Aldicarb	0.000	< 0.200		0.827	0.800	103.4	60.0	120
Azoxystrobin	0.000	< 0.100		0.411	0.400	102.8	60.0	120
Bifenazate	0.000	< 0.100		0.399	0.400	99.8	60.0	120
Bifenthrin	0.000	< 0.100		0.370	0.400	92.6	50.0	150
Boscalid	0.000	< 0.200		0.808	0.800	100.9	60.0	120
Carbaryl	0.000	< 0.100		0.394	0.400	98.5	60.0	120
Carbofuran	0.000	< 0.100		0.403	0.400	100.7	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.418	0.400	104.5	60.0	120
Chlorfenapyr	0.000	< 0.500		1.888	2.000	94.4	60.0	120
Chlorpyrifos	0.000	< 0.100		0.391	0.400	97.7	60.0	120
Clofentazine	0.000	< 0.100		0.139	0.400	34.8	60.0	120
Cyfluthrin	0.000	< 0.500		1.990	2.000	99.5	50.0	150
Cypermethrin	0.000	< 0.500		1.991	2.000	99.5	50.0	150
Daminozide	0.000	< 0.500		0.612	2.000	30.6	60.0	120
Diazinon	0.000	< 0.100		0.414	0.400	103.4	60.0	120
Dichlorvos	0.000	< 0.500		2.247	2.000	112.4	60.0	120
Dimethoate	0.000	< 0.100		0.409	0.400	102.2	60.0	120
Ethoprophos	0.000	< 0.100		0.417	0.400	104.3	60.0	120
Etofenprox	0.000	< 0.200		0.785	0.800	98.1	50.0	150
Etoxazole	0.000	< 0.100		0.432	0.400	107.9	60.0	120
Fenoxycarb	0.000	< 0.100		0.413	0.400	103.3	60.0	120
Fenpyroximate	0.000	< 0.200		0.815	0.800	101.9	60.0	120
Fipronil	0.000	< 0.200		0.806	0.800	100.8	60.0	120
Fonicamid	0.000	< 0.250		0.952	1.000	95.2	60.0	120
Fludioxonil	0.000	< 0.200		0.803	0.800	100.4	50.0	150
Hexythiazox	0.000	< 0.250		1.004	1.000	100.4	60.0	120
Imazalil	0.000	< 0.100		0.387	0.400	96.6	60.0	120
Imidacloprid	0.000	< 0.200		0.765	0.800	95.6	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.769	0.800	96.2	60.0	120
Malathion	0.000	< 0.100		0.409	0.400	102.3	60.0	120
Metlaxyl	0.000	< 0.100		0.417	0.400	104.2	60.0	120
Methiocarb	0.000	< 0.100		0.395	0.400	98.8	60.0	120
Methomyl	0.000	< 0.200		0.736	0.800	92.0	60.0	120
MGK-264	0.000	< 0.100		0.427	0.400	106.6	50.0	150
Myclobutanil	0.000	< 0.100		0.390	0.400	97.5	60.0	120
Naled	0.000	< 0.250		0.481	1.000	48.1	50.0	150
Oxamyl	0.000	< 0.500		1.831	2.000	91.6	60.0	120
Pacllobutrazole	0.000	< 0.200		0.861	0.800	107.6	60.0	120
Parathion-Methyl	0.000	< 0.200		0.697	0.800	87.2	50.0	150
Permethrin	0.000	< 0.100		0.381	0.400	95.3	50.0	150
Phosmet	0.000	< 0.100		0.413	0.400	103.1	50.0	150
Piperonyl butoxide	0.000	< 0.500		2.209	2.000	110.4	60.0	120
Prallethrin	0.000	< 0.100		0.407	0.400	101.7	60.0	120
Propiconazole	0.000	< 0.200		0.822	0.800	102.8	60.0	120
Propoxur	0.000	< 0.100		0.416	0.400	103.9	60.0	120
Pyrethrin (Summe)	0.000	< 0.100		0.433	0.413	104.8	60.0	120
Pyridaben	0.000	< 0.100		0.398	0.400	99.4	50.0	150
Spirosad	0.000	< 0.100		0.418	0.388	107.8	50.0	150
Spiromesifen	0.000	< 0.100		0.395	0.400	98.7	60.0	120
Spirotetramat	0.000	< 0.100		0.395	0.400	98.7	60.0	120
Spiroxamine	0.000	< 0.200		0.829	0.800	103.6	60.0	120
Tebuconazole	0.000	< 0.200		0.829	0.800	103.6	60.0	120
Thiacloprid	0.000	< 0.100		0.423	0.400	105.7	60.0	120
Thiamethoxam	0.000	< 0.100		0.374	0.400	93.5	60.0	120
Trifloxystrobin	0.000	< 0.100		0.407	0.400	101.8	60.0	120



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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: 2204731				
Matrix Spike/Matrix Spike Duplicate Recoveries					Sample ID: 22-006239-0001					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.001	0.942	0.928	1.000	1.4%	< 30	94.1%	92.8%	50 - 150	
Acephate	0.000	1.209	1.209	1.000	0.0%	< 30	120.9%	120.9%	50 - 150	
Acetaminophen	0.000	4.485	4.127	4.000	8.3%	< 30	112.1%	103.2%	50 - 150	
Acetamiprid	0.000	0.488	0.491	0.400	0.7%	< 30	122.0%	122.8%	50 - 150	
Aldicarb	0.000	0.952	0.959	0.800	0.7%	< 30	119.0%	119.9%	50 - 150	
Azoxystrobin	0.000	0.469	0.474	0.400	1.1%	< 30	117.3%	118.6%	50 - 150	
Bifenazate	0.000	0.386	0.407	0.400	5.4%	< 30	96.4%	101.8%	50 - 150	
Bifenthrin	0.000	0.401	0.399	0.400	0.5%	< 30	100.2%	99.6%	50 - 150	
Boscalid	0.000	0.848	0.801	0.800	5.6%	< 30	105.9%	100.2%	50 - 150	
Carbaryl	0.000	0.548	0.556	0.400	1.6%	< 30	137.0%	139.1%	50 - 150	
Carbofuran	0.000	0.469	0.464	0.400	1.0%	< 30	117.2%	116.1%	50 - 150	
Chlorantraniliprole	0.000	0.429	0.429	0.400	0.1%	< 30	107.3%	107.2%	50 - 150	
Chlorfenapyr	0.000	2.066	1.904	2.000	8.1%	< 30	103.3%	95.2%	50 - 150	
Chlorpyrifos	0.000	0.400	0.403	0.400	0.6%	< 30	100.1%	100.7%	50 - 150	
Clofentazine	0.000	0.385	0.401	0.400	4.1%	< 30	96.4%	100.4%	50 - 150	
Cyfluthrin	0.000	2.690	2.842	2.000	5.5%	< 30	134.5%	142.1%	30 - 150	
Cypermethrin	0.000	2.576	2.553	2.000	0.9%	< 30	128.8%	127.7%	50 - 150	
Daminozide	0.000	0.974	0.987	2.000	1.3%	< 30	48.7%	49.3%	30 - 150	
Diazinon	0.000	0.430	0.441	0.400	2.7%	< 30	107.4%	110.3%	50 - 150	
Dichlorvos	0.000	2.303	2.345	2.000	1.8%	< 30	115.2%	117.3%	50 - 150	
Dimethoate	0.000	0.493	0.498	0.400	1.2%	< 30	123.2%	124.6%	50 - 150	
Ethoprophos	0.000	0.435	0.452	0.400	3.8%	< 30	108.7%	112.9%	50 - 150	
Etofenprox	0.000	0.853	0.854	0.800	0.2%	< 30	106.6%	106.8%	50 - 150	
Etoxazole	0.000	0.420	0.422	0.400	0.5%	< 30	105.0%	105.5%	50 - 150	
Fenoxycarb	0.000	0.493	0.503	0.400	2.1%	< 30	123.2%	125.8%	50 - 150	
Fenpyroximate	0.000	0.963	0.995	0.800	3.3%	< 30	120.3%	124.4%	50 - 150	
Fipronil	0.000	1.387	1.388	0.800	0.1%	< 30	173.4%	173.6%	50 - 150	Q
Flonicamid	0.000	1.005	1.165	1.000	14.7%	< 30	100.5%	116.5%	50 - 150	
Fludioxonil	0.000	0.742	0.783	0.800	5.4%	< 30	92.7%	97.9%	50 - 150	
Hexythiazox	0.000	1.121	1.132	1.000	1.0%	< 30	112.1%	113.2%	50 - 150	
Imazalil	0.000	0.445	0.450	0.400	1.0%	< 30	111.4%	112.5%	50 - 150	
Imidacloprid	0.000	0.657	0.686	0.800	4.4%	< 30	82.1%	85.8%	50 - 150	
Kresoxim-methyl	0.000	0.833	0.871	0.800	4.5%	< 30	104.1%	108.9%	50 - 150	
Malathion	0.000	0.458	0.463	0.400	1.1%	< 30	114.6%	115.9%	50 - 150	
Metaxalyl	0.000	0.463	0.462	0.400	0.3%	< 30	115.7%	115.4%	50 - 150	
Methiocarb	0.000	0.438	0.436	0.400	0.5%	< 30	109.6%	109.0%	50 - 150	
Methomyl	0.000	0.794	0.782	0.800	1.6%	< 30	99.3%	97.7%	50 - 150	
MGK-264	0.000	0.583	0.575	0.400	1.4%	< 30	145.8%	143.7%	50 - 150	
Myclobutanil	0.000	0.435	0.450	0.400	3.3%	< 30	108.8%	112.4%	50 - 150	
Naled	0.000	1.266	1.289	1.000	1.8%	< 30	126.6%	128.9%	50 - 150	
Oxamyl	0.000	1.881	1.891	2.000	0.5%	< 30	94.1%	94.5%	50 - 150	
Pacllobutrazole	0.000	1.338	1.316	0.800	1.7%	< 30	167.3%	164.5%	50 - 150	Q
Parathion-Methyl	0.000	0.832	0.906	0.800	8.6%	< 30	103.9%	113.2%	30 - 150	
Permethrin	0.000	0.399	0.411	0.400	2.8%	< 30	99.9%	102.7%	50 - 150	
Phosmet	0.000	0.454	0.493	0.400	8.2%	< 30	113.6%	123.3%	50 - 150	
Piperonyl butoxide	0.000	2.231	2.309	2.000	3.4%	< 30	111.6%	115.4%	50 - 150	
Prallethrin	0.000	0.599	0.604	0.400	0.9%	< 30	149.7%	151.0%	50 - 150	Q
Propiconazole	0.000	1.318	1.328	0.800	0.8%	< 30	164.8%	166.0%	50 - 150	Q
Propoxur	0.000	0.488	0.497	0.400	1.9%	< 30	121.9%	124.2%	50 - 150	
Pyrethrin (Summe)	0.000	0.446	0.455	0.413	2.1%	< 30	108.0%	110.3%	50 - 150	
Pyridaben	0.000	0.550	0.569	0.400	3.2%	< 30	137.6%	142.1%	50 - 150	
Spirosad	0.000	0.462	0.458	0.388	0.8%	< 30	119.1%	118.1%	50 - 150	
Spiromesifen	0.000	0.491	0.501	0.400	2.0%	< 30	122.9%	125.4%	50 - 150	
Spirotetramat	0.000	0.314	0.313	0.400	0.2%	< 30	78.4%	78.2%	50 - 150	
Spiroxamine	0.000	0.945	0.931	0.800	1.5%	< 30	118.2%	116.4%	50 - 150	
Tebuconazole	0.000	1.231	1.210	0.800	1.7%	< 30	153.8%	151.3%	50 - 150	Q
Thiacloprid	0.000	0.501	0.518	0.400	3.5%	< 30	125.1%	129.6%	50 - 150	
Thiamethoxam	0.000	0.420	0.417	0.400	0.6%	< 30	104.9%	104.3%	50 - 150	
Trifloxystrobin	0.000	0.428	0.432	0.400	1.0%	< 30	107.0%	108.1%	50 - 150	



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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2204806					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		391	572	µg/g	68.4	60 - 120	
Isobutane	ND	< 200		538	731	µg/g	73.6	60 - 120	
Butane	ND	< 200		521	731	µg/g	71.3	60 - 120	
2,2-Dimethylpropane	ND	< 200		642	936	µg/g	68.6	60 - 120	
Methanol	ND	< 200		1350	1650	µg/g	81.8	60 - 120	
Ethylene Oxide	ND	< 30		44.6	56.2	µg/g	79.4	60 - 120	
2-Methylbutane	ND	< 200		1370	1620	µg/g	84.6	60 - 120	
Pentane	ND	< 200		1350	1610	µg/g	83.9	60 - 120	
Ethanol	ND	< 200		1260	1620	µg/g	77.8	70 - 130	
Ethyl Ether	ND	< 200		1320	1600	µg/g	82.5	60 - 120	
2,2-Dimethylbutane	ND	< 30		137	167	µg/g	82.0	60 - 120	
Acetone	ND	< 200		1380	1620	µg/g	85.2	60 - 120	
2-Propanol	ND	< 200		1260	1610	µg/g	78.3	60 - 120	
Acetonitrile	ND	< 100		527	635	µg/g	83.0	60 - 120	
2,3-Dimethylbutane	ND	< 30		149	177	µg/g	84.2	60 - 120	
Dichloromethane	ND	< 60		447	498	µg/g	89.8	60 - 120	
2-Methylpentane	ND	< 30		135	166	µg/g	81.3	60 - 120	
3-Methylpentane	ND	< 30		141	175	µg/g	80.6	60 - 120	
Hexane	ND	< 30		139	174	µg/g	79.9	60 - 120	
Ethyl acetate	ND	< 200		1310	1610	µg/g	81.4	60 - 120	
2-Butanol	ND	< 200		1260	1620	µg/g	77.8	60 - 120	
Tetrahydrofuran	ND	< 100		414	507	µg/g	81.7	60 - 120	
Cyclohexane	ND	< 200		1320	1610	µg/g	82.0	60 - 120	
Benzene	ND	< 1		4.23	5.22	µg/g	81.0	60 - 120	
Isopropyl Acetate	ND	< 200		1300	1610	µg/g	80.7	60 - 120	
Heptane	ND	< 200		1310	1610	µg/g	81.4	60 - 120	
1,4-Dioxane	ND	< 100		411	508	µg/g	80.9	60 - 120	
2-Ethoxyethanol	ND	< 30		116	165	µg/g	70.3	60 - 120	
Ethylene Glycol	ND	< 200		356	492	µg/g	72.4	60 - 120	
Toluene	ND	< 100		395	497	µg/g	79.5	60 - 120	
Ethylbenzene	ND	< 200		786	980	µg/g	80.2	60 - 120	
m,p-Xylene	ND	< 200		786	985	µg/g	79.8	60 - 120	
o-Xylene	ND	< 200		776	965	µg/g	80.4	60 - 120	
Cumene	ND	< 30		130	168	µg/g	77.4	60 - 120	



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QC - Sample Duplicate			Sample ID: 22-006238-0001					
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	

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.