



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



Report Number: 23-000025/D006.R001
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/03/23 10:31

This is an amended version of report# 23-000025/D006.R000.

Reason: Report includes additional testing.

Customer: DEV Distribution
Product identity: Strawberry Square 3542022DDB0000614 10mg D9 (3.75g)
Client/Metric ID: .
Laboratory ID: 23-000025-0002

Summary

Potency:

Analyte per 3.75g	Result	Limits	Units	Status	
Δ8-THC per 3.75g	0.461		mg/3.75g		THC-Total per Serving Size 10.1 mg/3.75g
Δ9-THC per 3.75g	10.1		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:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Received: 01/03/23 10:31

Customer: DEV Distribution

Product identity: Strawberry Square 3542022DDB0000614 10mg D9 (3.75g)
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-000025-0002
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) ^b		Units mg/se Batch: 2300116		Analyze: 1/4/23 11:05:00 PM	
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	0.224			
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	0.223			
CBN per 3.75g	< LOQ		mg/3.75g	0.120			
Δ10-THC-9R per 3.75g	< LOQ		mg/3.75g	0.120			
Δ8-THC per 3.75g	0.461		mg/3.75g	0.120			
Δ9-THC per 3.75g	10.1		mg/3.75g	0.120			
THC-A per 3.75g	< LOQ		mg/3.75g	0.120			
THC-Total per 3.75g	10.1		mg/3.75g	0.224			

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) ^p	
E.coli	< LOQ		cfu/g	10	2300099	01/07/23 AOAC 991.14 (Petrifilm) ^p	
Total Coliforms	< LOQ		cfu/g	10	2300099	01/07/23 AOAC 991.14 (Petrifilm) ^p	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2300659	01/24/23 AOAC 2014.05 (RAPID) ^p	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2300659	01/24/23 AOAC 2014.05 (RAPID) ^p	



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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) ^b											
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		Paclobotrazole [‡]	< 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	0.0181	2300352	01/11/23	AOAC 2013.06 (mod.) ^b	pass		
Cadmium	< LOQ	0.200	mg/kg	0.0181	2300352	01/11/23	AOAC 2013.06 (mod.) ^b	pass		
Lead	< LOQ	0.500	mg/kg	0.0181	2300352	01/11/23	AOAC 2013.06 (mod.) ^b	pass		
Mercury	< LOQ	0.100	mg/kg	0.00907	2300352	01/11/23	AOAC 2013.06 (mod.) ^b	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.

^p = 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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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

DEV DISTRIBUTION

23-000025



DEV Distribution

Company: Dev Distribution Contact: Deanna Petrin Address: 8101 Royal Ridge Parkway City: Irving State: TX Zip Code: 75063 <input checked="" type="checkbox"/> Email Results: DROPBOX deanna@dev-nutra.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 (P21120) 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:								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>					
Lab ID	Client Sample Identification	Sample date	Pesticides Oregon (P21120)	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:	Material Type †	Weight (Units)	Comments/Metric ID	
	Mango Square 3552022DDB0000616 50mg D8 (3.3g)	12/22/22	✓	✓	✓		✓	✓	✓				E	40-36.9g	Contains Active as Noted	
	Strawberry Square 3542022DDB0000614 10mg D9 (3.75g)	12/21/22	✓	✓	✓		✓	✓	✓				E	40-36.9g	Please report in mg/serving	
	Pineapple Square 3532022DDB0000611 10mg D9 10mg CBD (3.75g)	12/19/22	✓	✓	✓		✓	✓	✓				E	40-36.9g		
	Blue Raspberry Square 3532022DDB0000610 10mg D9 10mg CBD (3.75g)	12/19/22	✓	✓	✓		✓	✓	✓				E	40-36.9g	Standard Serving Sizes: D8: 3.3g D9: 3.75g/3.3g	
	Blue Raspberry Square 3552022DDB0000615 25mg D8 (3.3g)	12/22/22	✓	✓	✓		✓	✓	✓				E	40-36.9g	HHC: 3.3g	
	Blue Raspberry Square 3542022DDB0000613 10mg D9 (3.75g)	12/20/22	✓	✓	✓		✓	✓	✓				E	40-36.9g	D10: 3.3g	
	Mango Square 3532022DDB0000612 10mg D9 10mg CBD (3.75g)	12/20/22	✓	✓	✓		✓	✓	✓				E	40-36.9g	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			12/27/22	11:28a.m.	RPS			01/03/23	04:15:31	<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): 12.1 Sample in good condition: <input 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)

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

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Report Number: 23-00025/D006.R001
Report Date: 01/26/2023
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Purchase Order:
Received: 01/03/23 10:31

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
CBDA	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	
CBSA	1	0.0342	0.0345	%	99.4	80.0	-	120	Acceptable	
CBS	1	0.0341	0.0346	%	98.8	80.0	-	120	Acceptable	
CB	1	0.0345	0.0347	%	99.5	90.0	-	110	Acceptable	
THCV	2	0.0369	0.0351	%	105	80.0	-	120	Acceptable	
δ8THCV	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	
δ9THC	1	0.0376	0.0372	%	101	90.0	-	110	Acceptable	
δ8THC	1	0.0347	0.0360	%	96.5	90.0	-	110	Acceptable	
CB	2	0.0357	0.0333	%	107	80.0	-	120	Acceptable	
δ10THC	1	NA	0.0333	%	NA	80.0	-	120	Acceptable	Q6
CB	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	
CB	2	0.0367	0.0363	%	101	80.0	-	120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<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	
CBSA	<LOQ	0.003	%	< 0.003	Acceptable	
CBS	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
δ8THCV	<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	
δ9THC	<LOQ	0.003	%	< 0.003	Acceptable	
δ8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
δ10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<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	
CB	<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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Revision: 1 Document ID: 7148
 Legacy ID: Worksheet Validated 04/20/2021

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
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	0.221	0.217	0.003	%	1.72	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
δ8THCV	<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	
δ9THC	0.247	0.246	0.003	%	0.387	< 20	Acceptable	
δ8THC	0.0629	0.0581	0.003	%	8.01	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
δ10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 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	
CBF	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	

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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
 LegacyID: CFLC21WorksheetValidated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC2007.1 &EN 15662		Units: mg/Kg		Batch ID 2300273				
Method Blank	Laboratory Control Sample							
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spke	LCS% Re	Limits	Notes
Abamectin	0.000	< 0.250		1.003	1.000	100.3	50.0	150
Acaphate	0.000	< 0.200		0.767	0.800	95.8	60.0	120
Acquinocyl	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
Carbifuran	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
Clofentezane	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
Diazonon	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
Ethiofoprofos	0.000	< 0.100		0.392	0.400	98.0	60.0	120
Etofenprox	0.000	< 0.200		0.780	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
Fenproximate	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
Fonicamid	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
Kiesoxim-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
Metaxyl	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
MCK-264	0.000	< 0.100		0.395	0.400	98.6	50.0	150
Mydobutani	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
Padobutrazole	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
Spiromesfen	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
Thiadoprid	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

Q6



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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg					Batch ID 2300273			
Matrix Spk/Matrix Spke Duplicate Recoveries	Result	MS Res	MSD Res	Spike	RFD%	Limit	MS% Re	MSD% Re	Limits	Notes
Abamectin	0.00	0.938	0.979	1.000	4.2%	< 30	93.8%	97.9%	50 - 150	
Acetate	0.00	0.746	0.743	0.800	0.4%	< 30	93.3%	92.9%	50 - 150	
Acetaminophen	0.00	3.577	3.754	4.000	4.8%	< 30	89.4%	93.9%	50 - 150	
Acetamiprid	0.00	0.383	0.383	0.400	0.2%	< 30	95.9%	95.7%	50 - 150	
Aldicarb	0.00	0.809	0.823	0.800	1.7%	< 30	101.2%	102.8%	50 - 150	
Azoxystrobin	0.00	0.369	0.371	0.400	0.5%	< 30	92.2%	92.6%	50 - 150	
Bifenazate	0.00	0.385	0.397	0.400	2.8%	< 30	96.5%	99.3%	50 - 150	
Bifenthrin	0.00	0.362	0.373	0.400	3.1%	< 30	90.8%	93.3%	50 - 150	
Boscalid	0.00	0.758	0.766	0.800	1.1%	< 30	94.8%	95.8%	50 - 150	
Carbaryl	0.00	0.377	0.391	0.400	3.6%	< 30	94.3%	97.7%	50 - 150	
Carbendazim	0.00	0.368	0.380	0.400	3.1%	< 30	92.0%	94.9%	50 - 150	
Chlorantraniliprole	0.00	0.375	0.391	0.400	4.1%	< 30	93.8%	97.8%	50 - 150	
Chlorfenapyr	0.00	1.900	1.861	2.000	2.1%	< 30	95.0%	93.1%	50 - 150	
Chlorpyrifos	0.00	0.333	0.345	0.400	3.4%	< 30	83.4%	86.2%	50 - 150	
Clofentezine	0.00	0.054	0.052	0.400	3.8%	< 30	13.4%	12.9%	50 - 150	Q
Cyfluthrin	0.00	1.975	2.108	2.000	6.5%	< 30	98.8%	105.4%	30 - 150	
Cypermethrin	0.00	1.931	2.012	2.000	4.1%	< 30	96.5%	100.6%	50 - 150	
Daminozide	0.00	0.650	0.672	2.000	3.3%	< 30	32.5%	33.6%	30 - 150	
Diazinon	0.00	0.324	0.341	0.400	5.1%	< 30	81.0%	85.2%	50 - 150	
Dichlorvos	0.00	1.890	1.963	2.000	3.8%	< 30	94.5%	98.1%	50 - 150	
Dimethoate	0.00	0.381	0.389	0.400	1.9%	< 30	95.3%	97.2%	50 - 150	
Ethionphos	0.00	0.375	0.376	0.400	0.1%	< 30	93.8%	93.9%	50 - 150	
Etofenprox	0.00	0.709	0.728	0.800	2.6%	< 30	88.8%	91.0%	50 - 150	
Etoxazole	0.00	0.363	0.375	0.400	3.4%	< 30	90.8%	93.8%	50 - 150	
Fenoxycarb	0.00	0.368	0.373	0.400	1.3%	< 30	92.0%	93.2%	50 - 150	
Fenproximate	0.00	0.808	0.825	0.800	2.3%	< 30	101.0%	103.3%	50 - 150	
Fipronil	0.00	0.865	0.903	0.800	4.3%	< 30	108.1%	112.9%	50 - 150	
Fonicamid	0.00	1.014	1.030	1.000	1.6%	< 30	101.4%	103.0%	50 - 150	
Fludioxonil	0.00	0.765	0.758	0.800	0.9%	< 30	95.6%	94.8%	50 - 150	
Hexythiazox	0.00	0.831	0.824	1.000	0.9%	< 30	83.1%	82.4%	50 - 150	
Imazalil	0.00	0.379	0.390	0.400	2.9%	< 30	94.8%	97.6%	50 - 150	
Imidacloprid	0.00	0.739	0.764	0.800	3.4%	< 30	92.4%	95.5%	50 - 150	
Kiesoxim-methyl	0.00	0.740	0.761	0.800	2.8%	< 30	92.5%	95.2%	50 - 150	
Malathion	0.00	0.370	0.383	0.400	3.4%	< 30	92.6%	95.8%	50 - 150	
Metaxyl	0.00	0.380	0.382	0.400	0.4%	< 30	95.1%	95.5%	50 - 150	
Methiocarb	0.00	0.379	0.385	0.400	1.9%	< 30	94.7%	96.5%	50 - 150	
Methomyl	0.00	0.817	0.811	0.800	0.8%	< 30	102.1%	101.3%	50 - 150	
MCK-264	0.00	0.369	0.369	0.400	0.1%	< 30	92.2%	92.3%	50 - 150	
Mydobutani	0.00	0.365	0.388	0.400	5.8%	< 30	91.5%	97.0%	50 - 150	
Naled	0.00	0.930	0.963	1.000	3.5%	< 30	93.0%	96.3%	50 - 150	
Oxaryl	0.00	1.968	2.071	2.000	5.1%	< 30	98.4%	103.5%	50 - 150	
Padobutrazole	0.00	0.755	0.776	0.800	2.7%	< 30	94.4%	97.0%	50 - 150	
Parathion-Methyl	0.00	0.384	0.407	0.400	6.0%	< 30	95.9%	101.8%	30 - 150	
Permethrin	0.00	0.363	0.385	0.400	5.9%	< 30	90.6%	96.2%	50 - 150	
Phosmet	0.00	0.378	0.375	0.400	0.6%	< 30	94.4%	93.8%	50 - 150	
Piperonyl butoxide	0.00	1.815	1.959	2.000	7.6%	< 30	90.8%	98.0%	50 - 150	
Prallethrin	0.00	0.369	0.382	0.400	3.6%	< 30	92.2%	95.6%	50 - 150	
Propiconazole	0.00	0.751	0.765	0.800	1.9%	< 30	93.9%	95.8%	50 - 150	
Propoxur	0.00	0.379	0.389	0.400	2.6%	< 30	94.7%	97.2%	50 - 150	
Pyrethrin (Summe)	0.00	0.631	0.643	0.488	1.9%	< 30	129.3%	131.7%	50 - 150	
Pyridaben	0.00	0.369	0.372	0.400	1.0%	< 30	92.2%	93.1%	50 - 150	
Spirosad	0.00	0.365	0.379	0.388	3.7%	< 30	94.1%	97.6%	50 - 150	
Spiromesfen	0.00	0.360	0.372	0.400	3.3%	< 30	89.9%	93.0%	50 - 150	
Spirotetramat	0.00	0.367	0.371	0.400	1.0%	< 30	91.8%	92.8%	50 - 150	
Spiroxamine	0.00	0.749	0.773	0.800	3.2%	< 30	93.6%	96.7%	50 - 150	
Tebuconazole	0.00	0.762	0.767	0.800	0.8%	< 30	95.2%	95.9%	50 - 150	
Thiadoprid	0.00	0.380	0.390	0.400	2.4%	< 30	95.1%	97.4%	50 - 150	
Thiamethoxam	0.00	0.410	0.410	0.400	0.1%	< 30	102.5%	102.5%	50 - 150	
Trifloxystrobin	0.00	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	
Methyl ethyl ketone	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	
Silfolane	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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Report Number: 23-000025/D006.R001
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/03/23 10:31





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.