



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



Report Number: 22-014553/D019.R001
Report Date: 12/14/2022
ORELAP#: OR100028
Purchase Order:
Received: 11/29/22 15:04

This is an amended version of report# 22-014553/D019.R000.
Reason: Report includes additional testing.

Customer:
Product identity: Mango Squares 3262022DDB0000596 25mg D8 (3.3g)
Client/Metric ID: .
Laboratory ID: 22-014553-0005

Summary

Potency:

Analyte per 3.3g	Result	Limits	Units	Status	
Δ8-THC per 3.3g	26.4		mg/3.3g		CBD-Total per Serving Size <LOQ
					THC-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:

All analytes passing and less than LOQ.

Microbiology:

Less than LOQ for all analytes.



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Customer:

Product identity: Mango Squares 3262022DDB0000596 25mg D8 (3.3g)
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-014553-0005
Evidence of Cooling: No
Temp: 20.8 °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: 2210272	Analyze: 12/1/22 9:05:00 PM
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					
Δ10-THC per 3.3g	< LOQ		mg/3.3g	0.107					
Δ8-THC per 3.3g	26.4		mg/3.3g	0.107					
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	2210247	12/04/22 AOAC 990.12 (Petrifilm) ^P		
E.coli	< LOQ		cfu/g	10	2210245	12/04/22 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2210245	12/04/22 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2210246	12/05/22 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2210246	12/05/22 AOAC 2014.05 (RAPID) ^P		



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Solvents											Method: Residual Solvents by GC/MS ^b					Units µg/g		Batch 2210339		Analyze 12/06/22 09:51 AM				
Analyte	Result	Limits	LOQ	Status	Notes	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-Butanol	< LOQ	5000	200	pass								
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200			2-Methylbutane (Isopentane)	< LOQ		200									
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass		2-Propanol (IPA)	< LOQ	5000	200	pass								
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200			2,2-Dimethylpropane (neo-pentane)	< LOQ		200									
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0									
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass		Acetonitrile	< LOQ	410	100	pass								
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass		Butanes (sum)	< LOQ	5000	400	pass								
Cyclohexane	< LOQ	3880	200	pass		Ethyl acetate	< LOQ	5000	200	pass		Ethyl acetate	< LOQ	5000	200	pass								
Ethyl benzene	< LOQ		200			Ethyl ether	< LOQ	5000	200	pass		Ethyl ether	< LOQ	5000	200	pass								
Ethylene glycol	< LOQ	620	200	pass		Ethylene oxide	< LOQ	50.0	20.0	pass		Ethylene oxide	< LOQ	50.0	20.0	pass								
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass		Isopropyl acetate	< LOQ	5000	200	pass								
Isopropylbenzene (Cumene)	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200			m,p-Xylene	< LOQ		200									
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	60.0	pass		Methylene chloride	< LOQ	600	60.0	pass								
Methylpropane (Isobutane)	< LOQ		200			n-Butane	< LOQ		200			n-Butane	< LOQ		200									
n-Heptane	< LOQ	5000	200	pass		n-Hexane	< LOQ		30.0			n-Hexane	< LOQ		30.0									
n-Pentane	< LOQ		200			o-Xylene	< LOQ		200			o-Xylene	< LOQ		200									
Pentanes (sum)	< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass		Propane	< LOQ	5000	200	pass								
Tetrahydrofuran	< LOQ	720	100	pass		Toluene	< LOQ	890	100	pass		Toluene	< LOQ	890	100	pass								
Total Xylenes	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass		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 2210224 Analyze 12/01/22 10:26 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		Pacllobutrazole [‡]	< LOQ	0.40	0.200	pass	
Parathion-Methyl [‡]	< LOQ	0.20	0.100	pass		Permethrin [‡]	< LOQ	0.20	0.100	pass	
Phosmet [‡]	< LOQ	0.20	0.100	pass		Piperonyl butoxide [‡]	< LOQ	2.0	1.00	pass	
Prallethrin [‡]	< LOQ	0.20	0.100	pass		Propiconazole [‡]	< LOQ	0.40	0.200	pass	
Propoxur [‡]	< LOQ	0.20	0.100	pass		Pyrethrin I (total) [‡]	< LOQ	1.0	0.500	pass	
Pyridaben [‡]	< LOQ	0.20	0.100	pass		Spinosad [‡]	< LOQ	0.20	0.100	pass	
Spiromesifen [‡]	< LOQ	0.20	0.100	pass		Spirotetramat [‡]	< LOQ	0.20	0.100	pass	
Spiroxamine [‡]	< LOQ	0.40	0.200	pass		Tebuconazole [‡]	< LOQ	0.40	0.200	pass	
Thiacloprid [‡]	< LOQ	0.20	0.100	pass		Thiamethoxam [‡]	< LOQ	0.20	0.100	pass	
Trifloxystrobin [‡]	< LOQ	0.20	0.100	pass							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes	
Arsenic	< LOQ	0.200	mg/kg	0.0168	2210412	12/07/22	AOAC 2013.06 (mod.) ^b	pass		
Cadmium	< LOQ	0.200	mg/kg	0.0168	2210412	12/07/22	AOAC 2013.06 (mod.) ^b	pass		
Lead	< LOQ	0.500	mg/kg	0.0198	2210568	12/07/22	AOAC 2013.06 (mod.) ^b	pass		
Mercury	< LOQ	0.100	mg/kg	0.00840	2210412	12/07/22	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

DEVDISTRIBUTION 22-014553



10f2

Company: Dev NutraProducts 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: DEVD NutraProducts 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>				
Lab ID	Client Sample Identification	Sample date	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:	Material Type †	Weight (Units)	Comments/Metric ID
	Strawberry Squares 3262022DDB0000592 50mg CBD (3.3g)	11/16/22	✓	✓	✓	✓	✓	✓	✓				E	40-36.9g	Contains Active as Noted
	Strawberry Squares 3262022DDB0000593 50mg D8 (3.3g)	11/16/22	✓	✓	✓	✓	✓	✓	✓				E	40-36.9g	Please report in mg/serving
	Mango Squares 3252022DDB0000591 10mg D9 (3.75g)	11/16/22	✓	✓	✓	✓	✓	✓	✓				E	40-36.9g	Standard Serving Sizes:
	Watermelon Squares 3252022DDB0000586 10mg D9 (3.75g)	11/06/22	✓	✓	✓	✓	✓	✓	✓				E	40-36.9g	D8: 3.3g
5	\$ Mango Squares 3262022DDB0000596 25mg D8 (3.3g)	11/17/22	✓	✓	✓	✓	✓	✓	✓				E	40-36.9g	D9: 3.75g/3.3g
	Green Apple Squares 3252022DDB0000590 10mg D9 (3.75g)	11/16/22	✓	✓	✓	✓	✓	✓	✓				E	40-36.9g	HHC: 3.3g
	Strawberry Squares 3252022DDB0000588 10mg D9 (3.75g)	11/15/22	✓	✓	✓	✓	✓	✓	✓				E	40-36.9g	D10: 3.3g
	Strawberry Squares 3222022DDB0000584 10mg CBD 10mg D9 (3.75g)	11/14/22	✓	✓	✓	✓	✓	✓	✓				E	40-36.9g	THCO: 3.3g
	Blue Raspberry Squares 3222022DDB0000585 10mg CBD 10mg D9 (3.75g)	11/15/22	✓	✓	✓	✓	✓	✓	✓				E	40-36.9g	CBD: 3.3g
10	Pineapple Squares 3222022DDB0000587 10mg CBD 10mg D9 (3.75g)	11/15/22	✓	✓	✓	✓	✓	✓	✓				E	40-36.9g	Mother Liquor: 3.3g
Signature - Relinquished By:			Date	Time	Signature - Received By:			Date	Time	Lab Use Only:					
Deanna Petrin			11/21/22		MJP			11/29	15:04	<input type="checkbox"/> Shipped Via: UPS or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> Yes <input type="checkbox"/> No - Temp (°C): 20.0 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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Hemp & Cannabis: Usable / Extract / Finished Product
Chain of Custody Record

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

DEV DISTRIBUTION 22-014553

Dc

2 of 2



Company: Dev NutraProducts 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) <input type="checkbox"/> Residual Solvents Oregon (H0008) <input type="checkbox"/> Heavy Metals (H0013) <input type="checkbox"/> Mycotoxins (H0042) <input type="checkbox"/> Micro Profile D (M1010) <input type="checkbox"/> Terpenes (H0030) <input type="checkbox"/> Potency- Basic (H0014) <input type="checkbox"/> Potency Basic + Expanded (H0010) <input type="checkbox"/> Potency Basic + ADCs (H0015) <input type="checkbox"/> Other:								PO Number: DEV NutraProducts 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>				
Lab ID	Client Sample Identification	Sample date	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:	Material Type †	Weight (Units)	Comments/Metric ID
	Green Apple Squares 3222022DDB0000586 10mg CBD 10mg D9 (3.75g)	11/15/22	✓	✓	✓	✓	✓	✓	✓				E	40-36.9g	Contains Active as Noted
	Watermelon Squares 3262022DDB0000595 25mg D8 (3.3g)	11/17/22	✓	✓	✓	✓	✓	✓	✓				E	40-36.9g	Please report in mg/serving
	Strawberry Squares 3262022DDB0000594 25mg D8 (3.3g)	11/16/22	✓	✓	✓	✓	✓	✓	✓				E	40-36.9g	
14	BS01	11/18/22							✓				C		
Signature - Relinquished By:			Date	Time	Signature - Received By:			Date	Time	Lab Use Only:					
Deanna Petrin			11/21/22		MRA			11/29	15:04	<input type="checkbox"/> Shipped Via: UPS or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> Yes <input type="checkbox"/> No - Temp (°C): 20.0 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:					

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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 2210224			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spke	LCS% Re	Limits	Notes
Abamectin	0.00	< 0.250		1.024	1.000	102.4	50.0	150
Acephate	0.00	< 0.200		0.688	0.800	86.0	60.0	120
Acetamiprid	0.00	< 1.000		3.917	4.000	97.9	40.0	160
Acetamiprid	0.00	< 0.100		0.383	0.400	95.8	60.0	120
Aldicarb	0.00	< 0.200		0.791	0.800	98.9	60.0	120
Azoxystrobin	0.00	< 0.100		0.396	0.400	99.1	60.0	120
Bifenazate	0.00	< 0.100		0.396	0.400	98.9	60.0	120
Bifenthrin	0.00	< 0.100		0.391	0.400	97.8	50.0	150
Boscalid	0.00	< 0.200		0.812	0.800	101.5	60.0	120
Carbaryl	0.00	< 0.100		0.387	0.400	96.7	60.0	120
Carbendazim	0.00	< 0.100		0.401	0.400	100.2	60.0	120
Chlorantraniliprole	0.00	< 0.100		0.387	0.400	96.8	60.0	120
Chlorfenapyr	0.00	< 0.500		1.935	2.000	96.8	60.0	120
Chlorpyrifos	0.00	< 0.100		0.369	0.400	92.2	60.0	120
Clofentezine	0.00	< 0.100		0.306	0.400	76.6	60.0	120
Cyfluthrin	0.00	< 0.500		2.066	2.000	103.3	50.0	150
Cypermethrin	0.00	< 0.500		1.996	2.000	99.8	50.0	150
Daminozide	0.018	< 0.500		0.675	2.000	33.8	60.0	120
Diazinon	0.00	< 0.100		0.401	0.400	100.2	60.0	120
Dichlorvos	0.00	< 0.500		1.892	2.000	94.6	60.0	120
Dimethoate	0.00	< 0.100		0.391	0.400	97.9	60.0	120
Ethiofencarb	0.00	< 0.100		0.379	0.400	94.9	60.0	120
Ethionex	0.00	< 0.200		0.787	0.800	98.3	50.0	150
Etoxazole	0.00	< 0.100		0.410	0.400	102.6	60.0	120
Fenoxycarb	0.00	< 0.100		0.374	0.400	93.4	60.0	120
Fenprophate	0.00	< 0.200		0.797	0.800	99.6	60.0	120
Fipronil	0.00	< 0.200		0.934	0.800	116.7	60.0	120
Fonicamid	0.00	< 0.250		0.974	1.000	97.4	60.0	120
Fludioxonil	0.00	< 0.200		0.783	0.800	97.9	50.0	150
Hexythiazox	0.00	< 0.250		0.934	1.000	93.4	60.0	120
Imazalil	0.00	< 0.100		0.383	0.400	95.6	60.0	120
Imidacloprid	0.00	< 0.200		0.776	0.800	97.0	60.0	120
Kiesoxim-methyl	0.00	< 0.200		0.732	0.800	91.5	60.0	120
Malathion	0.00	< 0.100		0.387	0.400	96.7	60.0	120
Metolaxyl	0.00	< 0.100		0.387	0.400	96.7	60.0	120
Methiocarb	0.00	< 0.100		0.395	0.400	98.9	60.0	120
Methomyl	0.00	< 0.200		0.820	0.800	102.5	60.0	120
MCK-264	0.00	< 0.100		0.383	0.400	95.6	50.0	150
Mydobutanol	0.00	< 0.100		0.391	0.400	97.9	60.0	120
Naled	0.00	< 0.250		0.983	1.000	98.3	50.0	150
Oxamyl	0.00	< 0.500		1.962	2.000	98.1	60.0	120
Padobutrazole	0.00	< 0.200		0.777	0.800	97.1	60.0	120
Parathion-Methyl	0.00	< 0.100		0.403	0.400	100.8	50.0	150
Permethrin	0.00	< 0.100		0.384	0.400	95.9	50.0	150
Phosmet	0.00	< 0.100		0.398	0.400	99.6	50.0	150
Piperonyl butoxide	0.00	< 0.500		1.966	2.000	98.3	60.0	120
Prallethrin	0.00	< 0.100		0.391	0.400	97.7	60.0	120
Propiconazole	0.00	< 0.200		0.795	0.800	99.3	60.0	120
Propoxur	0.00	< 0.100		0.387	0.400	96.7	60.0	120
Pyrethrin (Summe)	0.001	< 0.100		0.491	0.488	100.7	60.0	120
Pyridaben	0.00	< 0.100		0.400	0.400	100.1	50.0	150
Spinosad	0.00	< 0.100		0.392	0.388	101.1	50.0	150
Spiromesfen	0.00	< 0.100		0.388	0.400	97.0	60.0	120
Spirotetramat	0.00	< 0.100		0.389	0.400	97.1	60.0	120
Spiroxamine	0.00	< 0.200		0.794	0.800	99.2	60.0	120
Tebuconazole	0.00	< 0.200		0.933	0.800	116.6	60.0	120
Thiadenopyr	0.00	< 0.100		0.394	0.400	98.4	60.0	120
Thiamethoxam	0.00	< 0.100		0.411	0.400	102.8	60.0	120
Trifloxystrobin	0.00	< 0.100		0.388	0.400	97.1	60.0	120

Q6

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with:



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



Report Number: 22-014553/D019.R001
Report Date: 12/14/2022
ORELAP#: OR100028
Purchase Order:
Received: 11/29/22 15:04

Revision: 3 Document ID: 3120
LegacyID: CFLC21WorksheetValidated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662										
Units: mg/Kg										Batch ID 2210224
Matrix Spke/Matrix Spke Duplicate Recoveries	Result	MS Res	MSD Res	Spike	RFD%	Limit	MS % Re	MSD % Re	Limits	Notes
Abamectin	0.00	1.131	1.104	1.000	2.4%	< 30	113.1%	110.4%	50 - 150	
Acephate	0.00	0.760	0.742	0.800	2.3%	< 30	95.0%	92.8%	50 - 150	
Acetaminocyl	0.00	3.962	3.982	4.000	0.5%	< 30	99.0%	99.8%	50 - 150	
Acetamiprid	0.00	0.401	0.395	0.400	1.3%	< 30	100.2%	99.0%	50 - 150	
Aldicarb	0.00	0.828	0.857	0.800	3.3%	< 30	103.5%	107.1%	50 - 150	
Azoxystrobin	0.00	0.378	0.404	0.400	6.4%	< 30	94.8%	100.9%	50 - 150	
Bifenazate	0.00	0.429	0.428	0.400	1.1%	< 30	107.2%	106.0%	50 - 150	
Bifenthrin	0.00	0.411	0.407	0.400	1.0%	< 30	102.8%	101.8%	50 - 150	
Boscalid	0.00	0.785	0.786	0.800	0.1%	< 30	98.2%	98.2%	50 - 150	
Carbaryl	0.00	0.414	0.408	0.400	1.6%	< 30	103.6%	102.0%	50 - 150	
Carbofuran	0.00	0.413	0.418	0.400	1.3%	< 30	103.2%	104.6%	50 - 150	
Chlorantraniliprole	0.00	0.407	0.421	0.400	3.2%	< 30	101.8%	105.2%	50 - 150	
Chlorfenapyr	0.00	2.062	2.005	2.000	2.8%	< 30	103.1%	100.2%	50 - 150	
Chlorpyrifos	0.00	0.369	0.365	0.400	0.7%	< 30	92.3%	91.8%	50 - 150	
Clofentezine	0.00	0.184	0.176	0.400	4.1%	< 30	46.0%	44.1%	50 - 150	Q
Cyfluthrin	0.00	2.014	2.246	2.000	10.9%	< 30	100.7%	112.3%	30 - 150	
Cypermethrin	0.00	2.209	2.126	2.000	3.8%	< 30	110.5%	106.3%	50 - 150	
Daminozide	0.195	0.649	0.670	2.000	4.6%	< 30	22.7%	23.8%	30 - 150	Q
Diazinon	0.00	0.401	0.395	0.400	1.5%	< 30	100.3%	98.8%	50 - 150	
Dichlorvos	0.00	2.008	1.954	2.000	2.7%	< 30	100.4%	97.7%	50 - 150	
Dimethoate	0.00	0.411	0.415	0.400	1.0%	< 30	102.7%	103.7%	50 - 150	
Ethiofoprofos	0.00	0.402	0.387	0.400	3.9%	< 30	100.6%	96.7%	50 - 150	
Etofenprox	0.00	0.826	0.820	0.800	0.7%	< 30	103.3%	102.6%	50 - 150	
Etozazole	0.00	0.426	0.433	0.400	1.6%	< 30	106.5%	108.3%	50 - 150	
Fenoxycarb	0.00	0.391	0.394	0.400	0.8%	< 30	97.8%	98.4%	50 - 150	
Fenpyroximate	0.00	0.895	0.901	0.800	0.7%	< 30	111.9%	112.6%	50 - 150	
Fipronil	0.00	0.981	0.970	0.800	1.2%	< 30	122.7%	121.2%	50 - 150	
Fonicamid	0.00	0.975	0.989	1.000	1.3%	< 30	97.5%	98.9%	50 - 150	
Fludioxonil	0.00	0.828	0.842	0.800	1.6%	< 30	103.5%	105.2%	50 - 150	
Hexythiazox	0.00	1.043	1.057	1.000	1.3%	< 30	104.3%	105.7%	50 - 150	
Imazalil	0.00	0.395	0.409	0.400	3.2%	< 30	98.9%	102.2%	50 - 150	
Imidacloprid	0.00	0.817	0.845	0.800	3.3%	< 30	102.2%	105.6%	50 - 150	
Kiesoxim-methyl	0.00	0.774	0.773	0.800	0.1%	< 30	96.8%	96.7%	50 - 150	
Malathion	0.00	0.397	0.405	0.400	2.1%	< 30	99.1%	101.2%	50 - 150	
Metabaxyl	0.00	0.405	0.419	0.400	3.3%	< 30	101.3%	104.7%	50 - 150	
Methiocarb	0.00	0.417	0.414	0.400	0.7%	< 30	104.3%	103.6%	50 - 150	
Methomyl	0.00	0.867	0.852	0.800	1.8%	< 30	108.4%	106.5%	50 - 150	
MCK-264	0.00	0.376	0.373	0.400	0.8%	< 30	94.0%	93.3%	50 - 150	
Mydobutani	0.00	0.421	0.408	0.400	4.3%	< 30	105.2%	100.7%	50 - 150	
Naled	0.00	1.016	1.031	1.000	1.5%	< 30	101.6%	103.1%	50 - 150	
Oxamyl	0.00	1.960	2.035	2.000	3.7%	< 30	98.0%	101.7%	50 - 150	
Padobutrazole	0.00	0.804	0.818	0.800	1.8%	< 30	100.4%	102.2%	50 - 150	
Parathion-Methyl	0.00	0.343	0.373	0.400	8.5%	< 30	85.7%	93.3%	30 - 150	
Permethrin	0.00	0.410	0.399	0.400	2.7%	< 30	102.6%	99.8%	50 - 150	
Phosmet	0.00	0.410	0.413	0.400	0.7%	< 30	102.4%	103.2%	50 - 150	
Piperonyl butoxide	0.00	2.095	2.085	2.000	0.5%	< 30	104.8%	104.2%	50 - 150	
Prallethrin	0.00	0.408	0.406	0.400	0.6%	< 30	102.1%	101.4%	50 - 150	
Propiconazole	0.00	0.864	0.860	0.800	0.4%	< 30	108.0%	107.5%	50 - 150	
Propoxur	0.00	0.408	0.404	0.400	0.3%	< 30	100.7%	101.0%	50 - 150	
Pyrethrin (Summe)	0.005	0.510	0.515	0.488	1.0%	< 30	103.4%	104.4%	50 - 150	
Pyridaben	0.00	0.405	0.405	0.400	0.4%	< 30	101.6%	101.2%	50 - 150	
Spirosad	0.00	0.393	0.411	0.388	4.4%	< 30	101.4%	105.9%	50 - 150	
Spiromesfen	0.00	0.398	0.394	0.400	1.0%	< 30	99.4%	98.4%	50 - 150	
Spirotetramat	0.00	0.367	0.376	0.400	2.5%	< 30	91.8%	94.1%	50 - 150	
Spiroxamine	0.00	0.805	0.828	0.800	2.8%	< 30	100.6%	103.5%	50 - 150	
Tebuconazole	0.00	0.953	0.929	0.800	2.6%	< 30	119.1%	116.1%	50 - 150	
Thiadoprid	0.00	0.420	0.432	0.400	2.8%	< 30	104.9%	107.9%	50 - 150	
Thiamethoxam	0.00	0.405	0.408	0.400	0.6%	< 30	101.3%	100.7%	50 - 150	
Trifloxystrobin	0.00	0.398	0.395	0.400	0.5%	< 30	98.2%	98.7%	50 - 150	



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Report Number: 22-014553/D019.R001
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Purchase Order:
Received: 11/29/22 15:04

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

Laboratory Quality Control Results

JAOAC2015 V98-6 Batch ID: 2210272

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0347	0.034	%	102	80.0	- 120	Acceptable	
CBDV	2	0.0360	0.035	%	102	80.0	- 120	Acceptable	
CBE	2	0.0361	0.035	%	102	80.0	- 120	Acceptable	
CEDA	1	0.0299	0.032	%	93.8	90.0	- 110	Acceptable	
CBG ^A	1	0.0321	0.032	%	99.8	80.0	- 120	Acceptable	
CBG	1	0.0318	0.032	%	100	80.0	- 120	Acceptable	
CBD	1	0.0315	0.032	%	98.9	90.0	- 110	Acceptable	
THCV	2	0.0348	0.034	%	102	80.0	- 120	Acceptable	
δ8THCV	2	0.0363	0.036	%	100	80.0	- 120	Acceptable	
THCV/A	2	0.0336	0.033	%	101	80.0	- 120	Acceptable	
CBN	1	0.0330	0.033	%	99.9	80.0	- 120	Acceptable	
exo-THC	2	0.0329	0.033	%	100	80.0	- 120	Acceptable	
δ9THC	1	0.0344	0.034	%	101	90.0	- 110	Acceptable	
δ8THC	1	0.0330	0.033	%	98.7	90.0	- 110	Acceptable	
CBL	2	0.0329	0.033	%	98.7	80.0	- 120	Acceptable	
Δ10THC	1	0.0303	0.031	%	98.8	80.0	- 120	Acceptable	
CBG	2	0.0350	0.035	%	100	80.0	- 120	Acceptable	
THCA	1	0.0321	0.032	%	101	90.0	- 110	Acceptable	
CBCA	2	0.0344	0.034	%	100	80.0	- 120	Acceptable	
CBLA	2	0.0350	0.035	%	99.4	80.0	- 120	Acceptable	
CBT	2	0.0350	0.037	%	95.6	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			
CEDA	<LOQ	0.003	%	< 0.003		Acceptable			
CBG ^A	<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			
δ8THCV	<LOQ	0.003	%	< 0.003		Acceptable			
THCV/A	<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			
CBL	<LOQ	0.003	%	< 0.003		Acceptable			
Δ10THC	<LOQ	0.003	%	< 0.003		Acceptable			
CBG	<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 MRI
 RPĐ - Relative Percent Difference
 LOQ - Limit of Quantitation

Units of Measure:
 %- Percent



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



Report Number: 22-014553/D019.R001
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Purchase Order:
Received: 11/29/22 15:04

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

Laboratory Quality Control Results

JAOAC2015 V98-6		Batch ID: 2210272						
Sample Duplicate		Sample ID: 22-014553-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0034	0.0035	0.003	%	3.21	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CEDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	1.47	1.51	0.003	%	2.69	< 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	0.0038	0.0039	0.003	%	3.10	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
Δ9THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
Δ8THC	<LOQ	<LOQ	0.003	%	NA	< 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	
CBT	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:



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Report Number: 22-014553/D019.R001
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Purchase Order:
Received: 11/29/22 15:04

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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2210339					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		576	572	µg/g	100.7	60 - 120	
Isobutane	ND	< 200		685	731	µg/g	93.7	60 - 120	
Butane	ND	< 200		674	731	µg/g	92.2	60 - 120	
2,2-Dimethylpropane	ND	< 200		962	936	µg/g	102.8	60 - 120	
Methanol	ND	< 200		1320	1620	µg/g	81.5	60 - 120	
Ethylene Oxide	ND	< 30		57.2	56.2	µg/g	101.8	60 - 120	
2-Methylbutane	ND	< 200		1340	1610	µg/g	83.2	60 - 120	
Pentane	ND	< 200		1330	1600	µg/g	83.1	60 - 120	
Ethanol	ND	< 200		1320	1610	µg/g	82.0	70 - 130	
Ethyl Ether	ND	< 200		1340	1630	µg/g	82.2	60 - 120	
2,2-Dimethylbutane	ND	< 30		139	171	µg/g	81.3	60 - 120	
Acetone	ND	< 200		1350	1630	µg/g	82.8	60 - 120	
2-Propanol	ND	< 200		1340	1620	µg/g	82.7	60 - 120	
Acetonitrile	ND	< 100		410	498	µg/g	82.3	60 - 120	
2,3-Dimethylbutane	ND	< 30		136	171	µg/g	79.5	60 - 120	
Dichloromethane	ND	< 60		417	483	µg/g	86.3	60 - 120	
2-Methylpentane	ND	< 30		143	168	µg/g	85.1	60 - 120	
3-Methylpentane	ND	< 30		127	167	µg/g	76.0	60 - 120	
Hexane	ND	< 30		178	182	µg/g	97.8	60 - 120	
Ethyl acetate	ND	< 200		1310	1610	µg/g	81.4	60 - 120	
2-Butanol	ND	< 200		1270	1600	µg/g	79.4	60 - 120	
Tetrahydrofuran	ND	< 100		385	483	µg/g	79.7	60 - 120	
Cyclohexane	ND	< 200		1330	1610	µg/g	82.6	60 - 120	
Benzene	ND	< 1		4.72	5.02	µg/g	94.0	60 - 120	
Isopropyl Acetate	ND	< 200		1350	1620	µg/g	83.3	60 - 120	
Heptane	ND	< 200		1330	1610	µg/g	82.6	60 - 120	
1,4-Dioxane	ND	< 100		370	491	µg/g	75.4	60 - 120	
2-Ethoxyethanol	ND	< 30		132	181	µg/g	72.9	60 - 120	
Ethylene Glycol	ND	< 200		257	484	µg/g	53.1	60 - 120	Q6
Toluene	ND	< 100		391	485	µg/g	80.6	60 - 120	
Ethylbenzene	ND	< 200		732	969	µg/g	75.5	60 - 120	
m,p-Xylene	ND	< 200		721	994	µg/g	72.5	60 - 120	
o-Xylene	ND	< 200		700	967	µg/g	72.4	60 - 120	
Cumene	ND	< 30		119	171	µg/g	69.6	60 - 120	



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Received: 11/29/22 15:04

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

QC - Sample Duplicate Sample ID: 22-014553-0003

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	
Pertane	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
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: 22-014553/D019.R001
Report Date: 12/14/2022
ORELAP#: OR100028
Purchase Order:
Received: 11/29/22 15:04





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.