



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



Report Number: 22-005768/D011.R000
Report Date: 05/25/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/18/22 10:39

Customer: DEV NutraProducts
Product identity: Blood Orange Cream Domes 0672022DDB001001Q 25mg HHC
Client/Metric ID: .
Laboratory ID: 22-005768-0006

Summary

Potency:

Analyte per 3.75g	Result	Limits	Units	Status	
CBN per 3.75g	0.273		mg/3.75g		CBD-Total per 3.75g <LOQ
HHC (9R-Hexahydrocannabinol)	10.0		mg/3.75g		
HHC (9S-Hexahydrocannabinol)	19.4		mg/3.75g		THC-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	0.0231	mg/kg	0.500	pass

Microbiology:

Less than LOQ for all analytes.



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Customer: DEV NutraProducts

Product identity: Blood Orange Cream Domes 0672022DDB001001Q 25mg HHC

Client/Metric ID:

Sample Date:

Laboratory ID: 22-005768-0006

Evidence of Cooling: No

Temp: 18.5 °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: 2204309 Analyze: 5/19/22 8:49:00 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	0.225	
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	0.273		mg/3.75g	0.120	
Δ8-THC per 3.75g [†]	< LOQ		mg/3.75g	0.120	
Δ9-THC per 3.75g	< LOQ		mg/3.75g	0.120	
HHC (9R-Hexahydrocannabinol) per	10.0		mg/3.75g	0.120	
HHC (9S-Hexahydrocannabinol) per	19.4		mg/3.75g	0.120	
THC-A per 3.75g	< LOQ		mg/3.75g	0.120	
THC-O-Acetate, delta-8 per 3.75g [†]	< LOQ		mg/3.75g	0.120	
THC-O-Acetate, delta-9 per 3.75g [†]	< LOQ		mg/3.75g	0.120	
THC-Total per 3.75g	< LOQ		mg/3.75g	0.225	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2204266	05/21/22	AOAC 990.12 (Petrifilm)	X	
E.coli	< LOQ		cfu/g	10	2204264	05/21/22	AOAC 991.14 (Petrifilm)	X	
Total Coliforms	< LOQ		cfu/g	10	2204264	05/21/22	AOAC 991.14 (Petrifilm)	X	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2204265	05/22/22	AOAC 2014.05 (RAPID)	X	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2204265	05/22/22	AOAC 2014.05 (RAPID)	X	



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Solvents		Method				Residual Solvents by GC/MS		Units µg/g		Batch 2204453		Analyze 05/25/22 01:22 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	< 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 2204339 Analyze 05/23/22 09:31 AM										
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status
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		Etoxazole	< LOQ	0.20	0.100	pass
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass
Fipronil	< LOQ	0.40	0.200	pass		Flonicamid	< LOQ	1.0	0.400	pass
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass
Oxamyl	< LOQ	1.0	0.500	pass		Paclobutrazole	< LOQ	0.40	0.200	pass
Parathion-Methyl	< LOQ	0.20	0.200	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	0.0191	2204321	05/20/22	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.200	mg/kg	0.0191	2204321	05/20/22	AOAC 2013.06 (mod.)	pass	X	
Lead	0.0231	0.500	mg/kg	0.0192	2204400	05/24/22	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	0.100	mg/kg	0.00956	2204321	05/20/22	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

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

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

Company: Dev NutraProducts Contact: Deanna Petrin			Analysis Requested										PO Number: _____ Project ID: _____ Batch ID: _____ Sampled by: _____ Custom Reporting: _____		
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: () - _____			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: _____										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>		
Lab ID	Client Sample Identification	Sample date	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	Material Type †	Weight (Units)	Comments/Metric ID
	Pineapple E-Puck 1322022DD8000390.5 10mg D9	05/13/22	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	E	33g	Contains HHC, D9, D8, D10, THCO, CBD, and Mother Liquor as noted
	Lemon Zinger Domes 0682022DD8001001Q 25mg HHC	03/09/22	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	E	33g	
	Yuzu Ice Cream Domes 0672022DD8001001Q 25mg HHC	03/08/22	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	E	49.5g	Please report in mg/serving
	Tangelo Domes 0752022DD8001001Q 25mg HHC	03/06/22	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	E	49.5g	
	Strawberry Limade Domes 0742022DD8001001Q 25mg HHC	03/15/22	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	E	49.5g	Standard Serving Sizes:
	Blood Orange Cream Domes 0672022DD8001001Q 25mg HHC	03/08/22	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	E	49.5g	D8 Squares, Bears, and E-Puck 3.3g
	Birthday Cake Domes 0772022DD8001001Q 25mg HHC	03/18/22	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	E	49.5g	D9 Domes, Squares, and BL-Puck 3.75g
															Diamonds 5g
															Hearts 6g
															Pucks 3.3g
Signature - Relinquished By: Deanna Petrin Date: 05/16/22 Time:			Signature - Received By: AE Date: 5/18/22 Time: 10:39			Lab Use Only: ☐ Shipped Via: UPS or ☐ Client drop off Evidence of cooling: ☐ Yes ☐ No - Temp (°C): 14.5 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
Page _____ of _____
www.columbialaboratories.com



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

PACKAGE RECEIVING FORM

Delivery Date: ☐ 5/18/22 ☒ Same as Opened By Date ☐ Unsure

How was the package delivered?

☒ UPS ☐ FEDEX ☐ USPS ☐ DHL ☐ OTHER: _____

Tracking Number: 1Z 078 27A 02 2250 3/30

		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?	18.5 °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): AE Date: 5/18/22 Time: 10:39



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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: 2204309**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	1	0.0345	0.033	%	103	80.0 - 120	Acceptable	
CBDV	1	0.0358	0.033	%	107	80.0 - 120	Acceptable	
CBE	1	0.0324	0.033	%	97.2	80.0 - 120	Acceptable	
CBDA	1	0.0328	0.033	%	98.5	80.0 - 120	Acceptable	
CBGA	1	0.0319	0.033	%	95.8	80.0 - 120	Acceptable	
CBG	1	0.0311	0.033	%	93.4	80.0 - 120	Acceptable	
CBD	1	0.0344	0.033	%	103	80.0 - 120	Acceptable	
THCV	1	0.0329	0.033	%	98.7	80.0 - 120	Acceptable	
d8THCV	1	0.0339	0.033	%	102	80.0 - 120	Acceptable	
THCVA	1	0.0325	0.033	%	97.6	80.0 - 120	Acceptable	
CBN	1	0.0337	0.033	%	101	80.0 - 120	Acceptable	
exo-THC	1	0.0318	0.033	%	95.4	80.0 - 120	Acceptable	
d9THC	1	0.0323	0.033	%	96.9	80.0 - 120	Acceptable	
d8THC	1	0.0308	0.033	%	92.4	80.0 - 120	Acceptable	
CBL	1	0.0311	0.033	%	93.2	80.0 - 120	Acceptable	
9R-HHC	3	0.0332	0.033	%	99.6	80.0 - 120	Acceptable	
CBC	1	0.0337	0.033	%	101	80.0 - 120	Acceptable	
9S-HHC	3	0.0327	0.033	%	98.0	80.0 - 120	Acceptable	
THCA	1	0.0333	0.033	%	99.9	80.0 - 120	Acceptable	
CBCA	1	0.0337	0.033	%	101	80.0 - 120	Acceptable	
CBLA	1	0.0340	0.033	%	102	80.0 - 120	Acceptable	
d8THCO	3	0.0359	0.033	%	108	80.0 - 120	Acceptable	
CBT	1	0.0302	0.033	%	90.6	80.0 - 120	Acceptable	
d9THCO	3	0.0316	0.033	%	94.8	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	
9R-HHC	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
9S-HHC	<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	
d8THCO	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<LOQ	0.003	%	< 0.003	Acceptable	
d9THCO	<LOQ	0.003	%	< 0.003	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference



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Laboratory Quality Control Results

LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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Laboratory Quality Control Results

J AOAC 2015 V98-6				Batch ID: 2204309				
Sample Duplicate				Sample ID: 22-005739-0001				
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0032	0.0032	0.003	%	0.249	< 20	Acceptable	
CBE	0.0050	0.0050	0.003	%	0.0203	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.654	0.655	0.003	%	0.219	< 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	0.0038	0.0038	0.003	%	0.299	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9R-HHC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0075	0.0075	0.003	%	0.777	< 20	Acceptable	
9S-HHC	<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	
d8THCO	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.0046	0.0047	0.003	%	3.92	< 20	Acceptable	
d9THCO	<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:



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



Report Number: 22-005768/D011.R000
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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662			Units: mg/Kg		Batch ID: 2204339			
Method Blank			Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.987	1.000	98.7	50.0 150	
Acephate	0.000	< 0.250		0.951	1.000	95.1	60.0 120	
Acequinocyl	0.000	< 1.000		3.149	4.000	78.7	40.0 160	
Acetamiprid	0.000	< 0.100		0.388	0.400	97.0	60.0 120	
Aldicarb	0.000	< 0.200		0.790	0.800	98.7	60.0 120	
Azoxystrobin	0.007	< 0.100		0.392	0.400	98.1	60.0 120	
Bifenazate	0.000	< 0.100		0.369	0.400	92.2	60.0 120	
Bifenthrin	0.000	< 0.100		0.346	0.400	86.6	50.0 150	
Boscalid	0.000	< 0.200		0.742	0.800	92.7	60.0 120	
Carbaryl	0.000	< 0.100		0.391	0.400	97.8	60.0 120	
Carbofuran	0.000	< 0.100		0.370	0.400	92.4	60.0 120	
Chlorantraniliprole	0.000	< 0.100		0.377	0.400	94.2	60.0 120	
Chlorfenapyr	0.000	< 0.500		3.459	2.000	173.0	60.0 120	Q1
Chlorpyrifos	0.000	< 0.100		0.403	0.400	100.7	60.0 120	
Clofentazine	0.000	< 0.100		0.273	0.400	68.3	60.0 120	
Cyfluthrin	0.000	< 0.500		2.083	2.000	104.2	50.0 150	
Cypermethrin	0.000	< 0.500		2.004	2.000	100.2	50.0 150	
Daminozide	0.000	< 0.500		0.658	2.000	32.9	60.0 120	Q6
Diazinon	0.000	< 0.100		0.397	0.400	99.2	60.0 120	
Dichlorvos	0.000	< 0.500		2.346	2.000	117.3	60.0 120	
Dimethoate	0.000	< 0.100		0.395	0.400	98.8	60.0 120	
Ethoprophos	0.000	< 0.100		0.401	0.400	100.3	60.0 120	
Etofenprox	0.000	< 0.200		0.755	0.800	94.3	50.0 150	
Etiozazole	0.000	< 0.100		0.459	0.400	114.8	60.0 120	
Fenoxycarb	0.000	< 0.100		0.372	0.400	92.9	60.0 120	
Fenpyroximate	0.000	< 0.200		0.876	0.800	109.5	60.0 120	
Fipronil	0.000	< 0.200		0.740	0.800	92.5	60.0 120	
Fonicamid	0.000	< 0.250		1.003	1.000	100.3	60.0 120	
Fludioxonil	0.000	< 0.200		0.837	0.800	104.6	50.0 150	
Hexythiazox	0.000	< 0.250		1.764	1.000	176.4	60.0 120	Q1
Imazalil	0.000	< 0.100		0.409	0.400	102.2	60.0 120	
Imidacloprid	0.000	< 0.200		0.777	0.800	97.2	60.0 120	
Kresoxim-methyl	0.000	< 0.200		0.757	0.800	94.7	60.0 120	
Malathion	0.000	< 0.100		0.373	0.400	93.2	60.0 120	
Metolaxyl	0.000	< 0.100		0.391	0.400	97.8	60.0 120	
Methiocarb	0.000	< 0.100		0.385	0.400	96.2	60.0 120	
Methomyl	0.000	< 0.200		0.713	0.800	89.1	60.0 120	
MGK-264	0.000	< 0.100		0.375	0.400	93.7	50.0 150	
Myclobutanil	0.000	< 0.100		0.363	0.400	90.8	60.0 120	
Naled	0.000	< 0.250		0.585	1.000	58.5	50.0 150	
Oxamyl	0.000	< 0.500		1.974	2.000	98.7	60.0 120	
Paclobutrazole	0.000	< 0.200		0.730	0.800	91.2	60.0 120	
Parathion-Methyl	0.000	< 0.200		0.799	0.800	99.9	50.0 150	
Permethrin	0.000	< 0.100		0.372	0.400	93.0	50.0 150	
Phosmet	0.000	< 0.100		0.373	0.400	93.2	50.0 150	
Piperonyl butoxide	0.000	< 0.500		1.914	2.000	95.7	60.0 120	
Prallethrin	0.000	< 0.100		0.369	0.400	92.3	60.0 120	
Propiconazole	0.000	< 0.200		0.682	0.800	85.3	60.0 120	
Propoxur	0.000	< 0.100		0.397	0.400	99.3	60.0 120	
Pyrethrin (Summe)	0.001	< 0.100		0.419	0.413	101.4	60.0 120	
Pyridaben	0.000	< 0.100		0.408	0.400	102.0	50.0 150	
Spinosad	0.000	< 0.100		3.350	0.388	863.4	50.0 150	Q1
Spiromesifen	0.000	< 0.100		0.389	0.400	97.3	60.0 120	
Spirotetramat	0.000	< 0.100		0.360	0.400	90.0	60.0 120	
Spiroxamine	0.000	< 0.200		0.727	0.800	90.9	60.0 120	
Tebuconazole	0.000	< 0.200		0.747	0.800	93.4	60.0 120	
Thiacloprid	0.000	< 0.100		0.382	0.400	95.6	60.0 120	
Thiamethoxam	0.000	< 0.100		0.390	0.400	97.5	60.0 120	
Trifloxystrobin	0.000	< 0.100		0.373	0.400	93.4	60.0 120	



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 Units: mg/Kg Batch ID: 2204339										
Matrix Spike/Matrix Spike Duplicate Recoveries Sample ID: 22-005644-0001										
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.958	0.902	1.000	6.0%	< 30	95.8%	90.2%	50 - 150	
Acephate	0.011	1.004	1.028	1.000	2.4%	< 30	99.3%	101.7%	50 - 150	
Acequinocyl	1.041	3.130	3.579	4.000	19.5%	< 30	52.2%	63.5%	50 - 150	
Acetamiprid	0.000	0.490	0.499	0.400	1.7%	< 30	122.6%	124.7%	50 - 150	
Aldicarb	0.000	0.906	0.911	0.800	0.5%	< 30	113.3%	113.8%	50 - 150	
Azoxystrobin	0.000	0.514	0.535	0.400	4.0%	< 30	128.6%	133.9%	50 - 150	
Bifenazate	0.000	0.438	0.451	0.400	2.9%	< 30	109.6%	112.9%	50 - 150	
Bifenthrin	0.000	0.088	0.091	0.400	2.6%	< 30	22.1%	22.7%	50 - 150	Q
Boscalid	0.000	0.968	0.975	0.800	0.8%	< 30	121.0%	121.9%	50 - 150	
Carbaryl	0.000	0.501	0.508	0.400	1.3%	< 30	125.3%	126.9%	50 - 150	
Carbofuran	0.000	0.516	0.524	0.400	1.5%	< 30	129.0%	130.9%	50 - 150	
Chlorantraniliprole	0.000	0.397	0.399	0.400	0.5%	< 30	99.3%	99.8%	50 - 150	
Chlorfenvapir	0.000	4.922	5.028	2.000	2.1%	< 30	246.1%	251.4%	50 - 150	Q
Chlorpyrifos	0.000	0.471	0.456	0.400	3.2%	< 30	117.6%	114.0%	50 - 150	
Clofentazine	0.000	0.253	0.262	0.400	3.4%	< 30	63.3%	65.5%	50 - 150	
Cyfluthrin	0.000	2.099	2.201	2.000	4.7%	< 30	105.0%	110.0%	30 - 150	
Cypermethrin	0.000	2.333	2.430	2.000	4.1%	< 30	116.6%	121.5%	50 - 150	
Daminozide	0.006	0.786	0.816	2.000	3.7%	< 30	39.0%	40.5%	30 - 150	
Diazinon	0.000	0.468	0.481	0.400	2.8%	< 30	116.9%	120.3%	50 - 150	
Dichlorvos	0.000	2.541	2.522	2.000	0.7%	< 30	127.0%	126.1%	50 - 150	
Dimethoate	0.000	0.470	0.475	0.400	1.0%	< 30	117.6%	118.8%	50 - 150	
Ethoprophos	0.000	0.449	0.457	0.400	1.7%	< 30	112.2%	114.2%	50 - 150	
Etofenprox	0.000	1.429	1.472	0.800	3.0%	< 30	178.6%	184.0%	50 - 150	Q
Etoxazole	0.000	0.836	0.871	0.400	4.0%	< 30	209.1%	217.6%	50 - 150	Q
Fenoxycarb	0.000	0.418	0.442	0.400	5.5%	< 30	104.6%	110.6%	50 - 150	
Fenpyroximate	0.000	0.836	0.857	0.800	2.5%	< 30	104.5%	107.2%	50 - 150	
Fipronil	0.000	0.833	0.856	0.800	2.7%	< 30	104.2%	107.0%	50 - 150	
Fonicamid	0.000	0.860	0.936	1.000	8.4%	< 30	86.0%	93.6%	50 - 150	
Fludioxonil	0.000	0.807	0.772	0.800	4.4%	< 30	100.9%	96.5%	50 - 150	
Hexythiazox	0.000	2.662	2.782	1.000	4.4%	< 30	266.2%	278.2%	50 - 150	Q
Imazalil	0.000	0.534	0.555	0.400	3.9%	< 30	133.4%	138.8%	50 - 150	
Imidacloprid	0.000	0.754	0.764	0.800	1.3%	< 30	94.2%	95.5%	50 - 150	
Kresoxim-methyl	0.000	0.869	0.941	0.800	8.0%	< 30	108.6%	117.7%	50 - 150	
Malathion	0.000	0.497	0.516	0.400	3.7%	< 30	124.2%	128.9%	50 - 150	
Metaxyl	0.000	0.462	0.479	0.400	3.6%	< 30	115.5%	119.7%	50 - 150	
Methiocarb	0.000	0.442	0.450	0.400	1.8%	< 30	110.4%	112.4%	50 - 150	
Methomyl	0.000	0.693	0.818	0.800	16.5%	< 30	86.7%	102.3%	50 - 150	
MGK-264	0.000	0.378	0.386	0.400	2.1%	< 30	94.5%	96.5%	50 - 150	
Myclobutanil	0.000	0.434	0.434	0.400	0.0%	< 30	108.5%	108.6%	50 - 150	
Naled	0.000	1.188	1.224	1.000	3.0%	< 30	118.8%	122.4%	50 - 150	
Oxamyl	0.000	1.838	2.003	2.000	8.6%	< 30	91.9%	100.1%	50 - 150	
Paclobutrazole	0.000	0.849	0.879	0.800	3.4%	< 30	106.2%	109.9%	50 - 150	
Parathion-Methyl	0.000	1.006	0.984	0.800	2.3%	< 30	125.8%	123.0%	30 - 150	
Permethrin	0.000	0.365	0.366	0.400	0.3%	< 30	91.1%	91.4%	50 - 150	
Phosmet	0.000	0.461	0.488	0.400	5.6%	< 30	115.3%	121.9%	50 - 150	
Piperonyl butoxide	0.000	2.212	2.342	2.000	5.7%	< 30	110.6%	117.1%	50 - 150	
Prallethrin	0.000	0.336	0.337	0.400	0.3%	< 30	84.0%	84.2%	50 - 150	
Propiconazole	0.000	0.931	0.975	0.800	4.7%	< 30	116.4%	121.9%	50 - 150	
Propoxur	0.006	0.498	0.500	0.400	0.5%	< 30	122.9%	123.5%	50 - 150	
Pyrethrin (Summe)	0.002	0.411	0.419	0.413	2.0%	< 30	99.1%	101.1%	50 - 150	
Pyridaben	0.000	0.514	0.540	0.400	4.9%	< 30	128.5%	135.1%	50 - 150	
Spinosad	0.000	3.177	3.680	0.388	14.7%	< 30	818.8%	948.5%	50 - 150	Q1
Spiromesifen	0.000	0.617	0.627	0.400	1.7%	< 30	154.1%	156.8%	50 - 150	Q
Spirotetramat	0.000	0.404	0.417	0.400	3.2%	< 30	100.9%	104.2%	50 - 150	
Spiroxamine	0.000	0.872	0.892	0.800	2.2%	< 30	109.0%	111.5%	50 - 150	
Tebuconazole	0.000	0.887	0.912	0.800	2.7%	< 30	110.9%	114.0%	50 - 150	
Thiacloprid	0.000	0.499	0.516	0.400	3.2%	< 30	124.9%	129.0%	50 - 150	
Thiamethoxam	0.000	0.337	0.384	0.400	13.0%	< 30	84.3%	96.1%	50 - 150	
Trifloxystrobin	0.000	0.668	0.687	0.400	2.8%	< 30	166.9%	171.7%	50 - 150	Q



12423 NE Whitaker Way
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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2204453					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		529	572	µg/g	92.5	60 - 120	
Isobutane	ND	< 200		782	731	µg/g	107.0	60 - 120	
Butane	ND	< 200		767	731	µg/g	104.9	60 - 120	
2,2-Dimethylpropane	ND	< 200		925	936	µg/g	98.8	60 - 120	
Methanol	ND	< 200		1560	1620	µg/g	96.3	60 - 120	
Ethylene Oxide	ND	< 30		58.3	56.2	µg/g	103.7	60 - 120	
2-Methylbutane	ND	< 200		1550	1620	µg/g	95.7	60 - 120	
Pentane	ND	< 200		1540	1610	µg/g	95.7	60 - 120	
Ethanol	ND	< 200		1660	1630	µg/g	101.8	70 - 130	
Ethyl Ether	ND	< 200		1470	1620	µg/g	90.7	60 - 120	
2,2-Dimethylbutane	ND	< 30		156	174	µg/g	89.7	60 - 120	
Acetone	ND	< 200		1400	1650	µg/g	84.8	60 - 120	
2-Propanol	ND	< 200		1500	1610	µg/g	93.2	60 - 120	
Ethyl Formate	ND	< 500		1310	1600	µg/g	81.9	70 - 130	
Acetonitrile	ND	< 100		472	498	µg/g	94.8	60 - 120	
Methyl Acetate	ND	< 500		1590	1610	µg/g	98.8	70 - 130	
2,3-Dimethylbutane	ND	< 30		149	176	µg/g	84.7	60 - 120	
Dichloromethane	ND	< 60		504	510	µg/g	98.8	60 - 120	
2-Methylpentane	ND	< 30		166	176	µg/g	94.3	60 - 120	
MTBE	ND	< 500		1380	1600	µg/g	86.3	70 - 130	
3-Methylpentane	ND	< 30		154	175	µg/g	88.0	60 - 120	
Hexane	ND	< 30		157	177	µg/g	88.7	60 - 120	
1-Propanol	ND	< 500		1630	1610	µg/g	101.2	70 - 130	
Methylethylketone	ND	< 500		1570	1600	µg/g	98.1	70 - 130	
Ethyl acetate	ND	< 200		1470	1630	µg/g	90.2	60 - 120	
2-Butanol	ND	< 200		1680	1620	µg/g	103.7	60 - 120	
Tetrahydrofuran	ND	< 100		447	500	µg/g	89.4	60 - 120	
Cyclohexane	ND	< 200		1370	1620	µg/g	84.6	60 - 120	
2-methyl-1-propanol	ND	< 500		1630	1620	µg/g	100.6	70 - 130	
Benzene	ND	< 1		4.15	5.32	µg/g	78.0	60 - 120	
Isopropyl Acetate	ND	< 200		1360	1620	µg/g	84.0	60 - 120	
Heptane	ND	< 200		1370	1770	µg/g	77.4	60 - 120	
1-Butanol	ND	< 500		1580	1600	µg/g	98.8	70 - 130	
Propyl Acetate	ND	< 500		1490	1600	µg/g	93.1	70 - 130	
1,4-Dioxane	ND	< 100		416	504	µg/g	82.5	60 - 120	
2-Ethoxyethanol	ND	< 30		149	181	µg/g	82.3	60 - 120	
Methylisobutylketone	ND	< 500		1460	1610	µg/g	90.7	70 - 130	
3-Methyl-1-butanol	ND	< 500		1440	1610	µg/g	89.4	70 - 130	
Ethylene Glycol	ND	< 200		257	494	µg/g	54.0	60 - 120	Q6
Toluene	ND	< 100		382	491	µg/g	77.8	60 - 120	
Isobutyl Acetate	ND	< 500		1660	1600	µg/g	103.8	70 - 130	
1-Pentanol	ND	< 500		1540	1610	µg/g	95.7	70 - 130	
Butyl Acetate	ND	< 500		1290	1610	µg/g	80.1	70 - 130	
Ethylbenzene	ND	< 200		692	973	µg/g	71.1	60 - 120	
m,p-Xylene	ND	< 200		685	996	µg/g	68.8	60 - 120	
o-Xylene	ND	< 200		682	973	µg/g	70.1	60 - 120	
Cumene	ND	< 30		117	170	µg/g	68.8	60 - 120	
Anisole	ND	< 500		1200	1610	µg/g	74.5	70 - 130	
DMSO	ND	< 500		927	1630	µg/g	56.9	70 - 130	Q6
1,2-dimethoxyethane	ND	< 50		160	164	µg/g	97.6	70 - 130	
Triethylamine	ND	< 500		1240	1600	µg/g	77.5	70 - 130	
N,N-dimethylformamide	ND	< 150		450	497	µg/g	90.5	70 - 130	
N,N-dimethylacetamide	ND	< 150		319	498	µg/g	64.1	70 - 130	Q6
Pyridine	ND	< 50		188	180	µg/g	104.4	70 - 130	
1,2-Dichloroethane	ND	< 1		0.709	1	µg/g	70.9	70 - 130	
Chloroform	ND	< 1		0.817	1	µg/g	81.7	70 - 130	
Trichloroethylene	ND	< 1		0.763	1	µg/g	76.3	70 - 130	



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QC - Sample Duplicate				Sample ID: 22-005702-0001			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail
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
Methyl ethyl ketone	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
Methyl isobutyl ketone	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
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
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: 22-005768/D011.R000
Report Date: 05/25/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/18/22 10:39





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.