



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

Report Number: 22-005705/D003.R000
Report Date: 05/25/2022
ORELAP#: OR100028
Purchase Order: DT05112022-Delta 8
Received: 05/17/22 12:19

Customer:
Product identity: Delta 8 THC Distillate : Cartridges(A1) Disposables (B1)
Project Number: DT33-39-A1/B1
Client/Metric ID: Batch: DT338-39-A1/B1
Laboratory ID: 22-005705-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
Δ8-THC per 1g†	851		mg/1g		CBD-Total per 1g <LOQ
					THC-Total per 1g <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: 05/17/22 12:19

Customer:

Product identity: Delta 8 THC Distillate : Cartridges(A1) Disposable
Project Number: DT33-39-A1/B1
Client/Metric ID: Batch: DT338-39-A1/B1
Sample Date:
Laboratory ID: 22-005705-0001
Evidence of Cooling: No
Temp: 21.6 °C
Relinquished by: UPS
Serving Size #1: 1 g



Sample Results

Potency per 1g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2204302	Analyze: 5/19/22 8:46:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBD per 1g	< LOQ		mg/1g	0.718	
CBD-A per 1g	< LOQ		mg/1g	0.718	
CBD-Total per 1g	< LOQ		mg/1g	1.35	
CBG per 1g [†]	< LOQ		mg/1g	0.718	
CBG-A per 1g [†]	< LOQ		mg/1g	0.718	
CBG-Total per 1g [†]	< LOQ		mg/1g	1.34	
CBN per 1g	< LOQ		mg/1g	0.718	
Δ8-THC per 1g [†]	851		mg/1g	7.18	
Δ9-THC per 1g	< LOQ		mg/1g	0.718	
HHC (9R-Hexahydrocannabinol) per	< LOQ		mg/1g	0.718	
HHC (9S-Hexahydrocannabinol) per	< LOQ		mg/1g	0.718	
THC-A per 1g	< LOQ		mg/1g	0.718	
THC-O-Acetate, delta-8 per 1g [†]	< LOQ		mg/1g	0.718	
THC-O-Acetate, delta-9 per 1g [†]	< LOQ		mg/1g	0.718	
THC-Total per 1g	< LOQ		mg/1g	1.35	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2204218	05/20/22	AOAC 990.12 (Petrifilm)	X, I	
E.coli	< LOQ		cfu/g	10	2204216	05/20/22	AOAC 991.14 (Petrifilm)	X, I	
Total Coliforms	< LOQ		cfu/g	10	2204216	05/20/22	AOAC 991.14 (Petrifilm)	X, I	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2204217	05/21/22	AOAC 2014.05 (RAPID)	X, I	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2204217	05/21/22	AOAC 2014.05 (RAPID)	X, I	



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Solvents						Residual Solvents by GC/MS						Units	µg/g	Batch	2204399	Analyze	05/24/22	03:09 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 2204335 Analyze 05/23/22 08:26 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamidrid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifentazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.200	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoazole	< 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	0.0959	2204301	05/19/22	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.200	mg/kg	0.0959	2204301	05/19/22	AOAC 2013.06 (mod.)	pass	X	
Lead	< LOQ	0.500	mg/kg	0.0959	2204301	05/19/22	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	0.100	mg/kg	0.0480	2204301	05/19/22	AOAC 2013.06 (mod.)	pass	X	



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Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aflatoxin B2†	< LOQ		µg/kg	5.00	2204334	05/22/22	AOAC 2007.01 & EN 15		
Aflatoxin B1†	< LOQ		µg/kg	5.00	2204334	05/22/22	AOAC 2007.01 & EN 15		
Aflatoxin G1†	< LOQ		µg/kg	5.00	2204334	05/22/22	AOAC 2007.01 & EN 15		
Aflatoxin G2†	< LOQ		µg/kg	5.00	2204334	05/22/22	AOAC 2007.01 & EN 15		
Ochratoxin A†	< LOQ		µg/kg	5.00	2204334	05/22/22	AOAC 2007.01 & EN 15		
Ochratoxin B†	< LOQ		µg/kg	2.00	2204334	05/22/22	AOAC 2007.01 & EN 15		



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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

µg/kg = Micrograms per kilogram = parts per billion (ppb)

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

mg/1g = Milligram per 1g

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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

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

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

Company: _____ Contact: _____ Address: _____ City: _____ State: _____ Zip Code: _____ <input checked="" type="checkbox"/> Email Results: _____ <input type="checkbox"/> Ph: (____) - _____ <i>Billing Contact (if different)</i> Name: _____ Email: _____ Address: _____ City: _____ State: _____ Zip: _____ Ph: (____) - _____			Analysis Requested <table border="1"> <tr> <td>Potency Basic (H0014)</td> <td>Potency Basic + ADCs (H0015)</td> <td>Micro Profile D (M1010)</td> <td>Mycotoxins (H0042)</td> <td>Metals (H0013)</td> <td>Residual Solvents - OR (H0008)</td> <td>Pesticides OR (P2120)</td> <td>Residual Solvents - OR (H0008)</td> </tr> <tr> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> </tr> </table>							Potency Basic (H0014)	Potency Basic + ADCs (H0015)	Micro Profile D (M1010)	Mycotoxins (H0042)	Metals (H0013)	Residual Solvents - OR (H0008)	Pesticides OR (P2120)	Residual Solvents - OR (H0008)		✓	✓	✓	✓	✓	✓		PO Number: DT05112022-Delta 8 THC Project ID: Delta 8 THC Distillate Full Panel Batch ID: DT338-39-A1/B1 Sampled by: _____ Custom Reporting: _____ Source Material: <input checked="" type="checkbox"/> - Ind. Hemp product <input type="checkbox"/> - Rec. Cannabis Reporting Type: <input checked="" type="checkbox"/> - Compliance <input 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 checked="" type="checkbox"/> - 5BD <input type="checkbox"/> - 3BD* <input type="checkbox"/> - 2BD* <i>*Check for availability</i>		
Potency Basic (H0014)	Potency Basic + ADCs (H0015)	Micro Profile D (M1010)	Mycotoxins (H0042)	Metals (H0013)	Residual Solvents - OR (H0008)	Pesticides OR (P2120)	Residual Solvents - OR (H0008)																					
	✓	✓	✓	✓	✓	✓																						
Lab ID	Client Sample Identification	Sample date							Material Type †	Weight (Units)	Comments/Metric ID																	
	Delta 8 THC Distillate : Cartridges(A1) Disposables(B1)		✓	✓	✓	✓	✓		C		- Report units(potency) in mg - Batch ID must be listed on report																	
Signature - Relinquished By:			Signature - Received By:			Date			Lab Use Only:																			
			DS			05/11/22 10:15am EST			<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): 21.61 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
 12423 NE Whitaker Way
 Portland, OR 97230

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

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

PACKAGE RECEIVING FORM

Delivery Date: 5/17/22 Same as Opened By Date Unsure

How was the package delivered?

UPS FEDEX USPS DHL OTHER: _____

Tracking Number: 1Z 584 6FE 03 7236 5258

		<small>CIRCLE ONE</small>	
1) Was package sealed with no evidence of holes/tampering?		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Further custody seal/tampering notes: _____			
2) Was packing material used?		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
If YES: <input type="checkbox"/> PEANUTS <input checked="" type="checkbox"/> BUBBLE <input type="checkbox"/> WRAP <input type="checkbox"/> FOAM PAPER			
3) Was a Complete Chain of Custody (COC) received?		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Comment (PT?, Email?): _____			
4) Sample temperature upon arrival?		<u>21.6</u> °C	
5) Evidence of cooling?		<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
If YES, What kind? <input type="checkbox"/> ICE <input type="checkbox"/> FREEZER PACK <input type="checkbox"/> DRY ICE			
Insulation? <input type="checkbox"/> PLASTIC COOLER <input type="checkbox"/> STYROFOAM <input type="checkbox"/> OTHER: _____			
6) Were sample containers sealed in separate plastic bags/secondary containment?		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
7) Did sample containers arrive in good condition?		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
If NO: <input type="checkbox"/> LEAKED <input type="checkbox"/> BROKEN <input type="checkbox"/> OTHER: _____			
If NO: Suspect contamination of other samples? <input type="checkbox"/> YES <input type="checkbox"/> NO			
8) Sample labels present?		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
9) Do sample labels agree with COC?		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> 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): DS Date: 5/17/22 Time: 12:15



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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: 2204302**

Laboratory Control Sample										
Analyte	LCS	Result	Spike	Units	% Rec	Limits			Evaluation	Notes
CBDVA	1	0.102	0.100	%	102	80.0	-	120	Acceptable	
CBDV	1	0.110	0.100	%	110	80.0	-	120	Acceptable	
CBE	1	0.0953	0.100	%	95.3	80.0	-	120	Acceptable	
CBDA	1	0.102	0.100	%	102	90.0	-	110	Acceptable	
CBGA	1	0.0956	0.100	%	95.6	80.0	-	120	Acceptable	
CBG	1	0.0953	0.100	%	95.3	80.0	-	120	Acceptable	
CBD	1	0.102	0.100	%	102	90.0	-	110	Acceptable	
THCV	1	0.0971	0.100	%	97.1	80.0	-	120	Acceptable	
d8THCV	1	0.0986	0.100	%	98.6	80.0	-	120	Acceptable	
THCVA	1	0.0972	0.100	%	97.2	80.0	-	120	Acceptable	
CBN	1	0.102	0.100	%	102	90.0	-	110	Acceptable	
exo-THC	1	0.0941	0.100	%	94.1	80.0	-	120	Acceptable	
d9THC	1	0.0997	0.100	%	99.7	90.0	-	110	Acceptable	
d8THC	1	0.0896	0.100	%	89.6	80.0	-	120	Acceptable	
CBL	1	0.0957	0.100	%	95.7	80.0	-	120	Acceptable	
9R-HHC	3	0.0959	0.100	%	95.9	80.0	-	120	Acceptable	
CBC	1	0.0983	0.100	%	98.3	80.0	-	120	Acceptable	
9S-HHC	3	0.0931	0.100	%	93.1	80.0	-	120	Acceptable	
THCA	1	0.100	0.100	%	100	90.0	-	110	Acceptable	
CBCA	1	0.101	0.100	%	101	80.0	-	120	Acceptable	
CBLA	1	0.103	0.100	%	103	80.0	-	120	Acceptable	
d8THCO	3	0.111	0.100	%	111	80.0	-	120	Acceptable	
CBT	1	0.0919	0.100	%	91.9	80.0	-	120	Acceptable	
d9THCO	3	0.0951	0.100	%	95.1	80.0	-	120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.077	%	< 0.077	Acceptable	
CBDV	<LOQ	0.077	%	< 0.077	Acceptable	
CBE	<LOQ	0.077	%	< 0.077	Acceptable	
CBDA	<LOQ	0.077	%	< 0.077	Acceptable	
CBGA	<LOQ	0.077	%	< 0.077	Acceptable	
CBG	<LOQ	0.077	%	< 0.077	Acceptable	
CBD	<LOQ	0.077	%	< 0.077	Acceptable	
THCV	<LOQ	0.077	%	< 0.077	Acceptable	
d8THCV	<LOQ	0.077	%	< 0.077	Acceptable	
THCVA	<LOQ	0.077	%	< 0.077	Acceptable	
CBN	<LOQ	0.077	%	< 0.077	Acceptable	
exo-THC	<LOQ	0.077	%	< 0.077	Acceptable	
d9THC	<LOQ	0.077	%	< 0.077	Acceptable	
d8THC	<LOQ	0.077	%	< 0.077	Acceptable	
CBL	<LOQ	0.077	%	< 0.077	Acceptable	
9R-HHC	<LOQ	0.077	%	< 0.077	Acceptable	
CBC	<LOQ	0.077	%	< 0.077	Acceptable	
9S-HHC	<LOQ	0.077	%	< 0.077	Acceptable	
THCA	<LOQ	0.077	%	< 0.077	Acceptable	
CBCA	<LOQ	0.077	%	< 0.077	Acceptable	
CBLA	<LOQ	0.077	%	< 0.077	Acceptable	
d8THCO	<LOQ	0.077	%	< 0.077	Acceptable	
CBT	<LOQ	0.077	%	< 0.077	Acceptable	
d9THCO	<LOQ	0.077	%	< 0.077	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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Portland, OR 97230
503-254-1794

Report Number: 22-005705/D003.R000
Report Date: 05/25/2022
ORELAP#: OR100028
Purchase Order: DT05112022-Delta 8
Received: 05/17/22 12:19

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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2204302						
Sample Duplicate		Sample ID: 22-005705-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THCV	0.951	0.939	0.077	%	1.28	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THC	87.3	85.1	0.077	%	2.52	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9R-HHC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9S-HHC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBT	0.103	0.0914	0.077	%	12.2	< 20	Acceptable	
d9THCO	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 2204335				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		1.207	1.000	120.7	50.0	150
Acephate	0.033	< 0.250		1.102	1.000	110.2	60.0	120
Acequinocyl	0.000	< 1.000		4.533	4.000	113.3	40.0	160
Acetamiprid	0.000	< 0.100		0.433	0.400	108.2	60.0	120
Aldicarb	0.000	< 0.200		0.898	0.800	112.2	60.0	120
Azoxystrobin	0.000	< 0.100		0.427	0.400	106.8	60.0	120
Bifenazate	0.000	< 0.100		0.481	0.400	120.2	60.0	120
Bifenthrin	0.000	< 0.100		0.431	0.400	107.8	50.0	150
Boscalid	0.000	< 0.200		0.847	0.800	105.9	60.0	120
Carbaryl	0.000	< 0.100		0.427	0.400	106.7	60.0	120
Carbofuran	0.000	< 0.100		0.424	0.400	106.1	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.404	0.400	100.9	60.0	120
Chlorfenapyr	0.000	< 0.500		2.208	2.000	110.4	60.0	120
Chlorpyrifos	0.000	< 0.100		0.429	0.400	107.2	60.0	120
Clofentazine	0.000	< 0.100		0.449	0.400	112.2	60.0	120
Cyfluthrin	0.000	< 0.500		2.117	2.000	105.9	50.0	150
Cypermethrin	0.000	< 0.500		2.197	2.000	109.9	50.0	150
Daminozide	0.000	< 0.500		2.477	2.000	123.8	60.0	120
Diazinon	0.000	< 0.100		0.469	0.400	117.3	60.0	120
Dichlorvos	0.000	< 0.500		2.271	2.000	113.6	60.0	120
Dimethoate	0.000	< 0.100		0.440	0.400	110.0	60.0	120
Ethoprophos	0.000	< 0.100		0.440	0.400	110.1	60.0	120
Etofenprox	0.000	< 0.200		0.876	0.800	109.5	50.0	150
Etoxazole	0.000	< 0.100		0.453	0.400	113.1	60.0	120
Fenoxycarb	0.000	< 0.100		0.440	0.400	110.1	60.0	120
Fenpyroximate	0.000	< 0.200		0.891	0.800	111.4	60.0	120
Fipronil	0.000	< 0.200		0.855	0.800	106.8	60.0	120
Fonicamid	0.000	< 0.250		1.029	1.000	102.9	60.0	120
Fludioxonil	0.000	< 0.200		0.879	0.800	109.8	50.0	150
Hexythiazox	0.000	< 0.250		1.117	1.000	111.7	60.0	120
Imazalil	0.000	< 0.100		0.443	0.400	110.8	60.0	120
Imidacloprid	0.000	< 0.200		0.873	0.800	109.1	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.884	0.800	110.5	60.0	120
Malathion	0.000	< 0.100		0.445	0.400	111.3	60.0	120
Metaxalyl	0.000	< 0.100		0.427	0.400	106.6	60.0	120
Methiocarb	0.000	< 0.100		0.431	0.400	107.6	60.0	120
Methomyl	0.000	< 0.200		0.891	0.800	111.4	60.0	120
MGK-264	0.000	< 0.100		0.440	0.400	110.1	50.0	150
Myclobutanil	0.000	< 0.100		0.453	0.400	113.2	60.0	120
Naled	0.000	< 0.250		0.980	1.000	98.0	50.0	150
Oxamyl	0.000	< 0.500		1.990	2.000	99.5	60.0	120
Pacllobutrazole	0.000	< 0.200		0.883	0.800	110.4	60.0	120
Parathion-Methyl	0.000	< 0.200		1.801	0.800	225.1	50.0	150
Permethrin	0.000	< 0.100		0.441	0.400	110.2	50.0	150
Phosmet	0.000	< 0.100		0.450	0.400	112.5	50.0	150
Piperonyl butoxide	0.000	< 0.500		2.228	2.000	111.4	60.0	120
Prallethrin	0.000	< 0.100		0.449	0.400	112.1	60.0	120
Propiconazole	0.000	< 0.200		0.898	0.800	112.2	60.0	120
Propoxur	0.000	< 0.100		0.451	0.400	112.7	60.0	120
Pyrethrin (Summe)	0.001	< 0.100		0.451	0.413	109.3	60.0	120
Pyridaben	0.000	< 0.100		0.453	0.400	113.2	50.0	150
Spirosad	0.000	< 0.100		0.395	0.388	101.9	50.0	150
Spiromesifen	0.000	< 0.100		0.443	0.400	110.8	60.0	120
Spirotetramat	0.000	< 0.100		0.444	0.400	111.1	60.0	120
Spiroxamine	0.000	< 0.200		0.880	0.800	110.0	60.0	120
Tebuconazole	0.000	< 0.200		0.908	0.800	113.5	60.0	120
Thiacloprid	0.000	< 0.100		0.432	0.400	108.1	60.0	120
Thiamethoxam	0.000	< 0.100		0.439	0.400	109.9	60.0	120
Trifloxystrobin	0.000	< 0.100		0.430	0.400	107.5	60.0	120



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg				Batch ID: 2204335				
Matrix Spike/Matrix Spike Duplicate Recoveries					Sample ID: 22-005695-0001					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.981	1.008	1.000	2.8%	< 30	98.1%	100.8%	50 - 150	
Acephate	0.000	1.078	1.084	1.000	0.6%	< 30	107.8%	108.4%	50 - 150	
Acetamiprid	0.000	0.424	0.432	0.400	1.7%	< 30	106.1%	107.9%	50 - 150	
Aldicarb	0.000	0.867	0.905	0.800	4.3%	< 30	108.4%	113.2%	50 - 150	
Azoxystrobin	0.000	0.423	0.410	0.400	3.2%	< 30	105.8%	102.5%	50 - 150	
Bifenazate	0.000	0.532	0.540	0.400	1.5%	< 30	133.0%	135.0%	50 - 150	
Bifenthrin	0.000	0.517	0.555	0.400	7.0%	< 30	129.2%	138.6%	50 - 150	
Boscalid	0.000	0.834	0.814	0.800	2.5%	< 30	104.3%	101.7%	50 - 150	
Carbaryl	0.000	0.419	0.418	0.400	0.2%	< 30	104.7%	104.5%	50 - 150	
Carbofuran	0.000	0.410	0.419	0.400	2.0%	< 30	102.6%	104.7%	50 - 150	
Chlorantraniliprole	0.000	0.406	0.412	0.400	1.4%	< 30	101.5%	103.0%	50 - 150	
Chlorfenapyr	0.000	1.985	2.002	2.000	0.9%	< 30	99.2%	100.1%	50 - 150	
Chlorpyrifos	0.000	0.417	0.387	0.400	7.5%	< 30	104.3%	96.7%	50 - 150	
Clofentezine	0.000	0.468	0.445	0.400	5.1%	< 30	117.1%	111.3%	50 - 150	
Cyfluthrin	0.000	1.723	1.776	2.000	3.0%	< 30	86.2%	88.8%	30 - 150	
Cypermethrin	0.000	1.766	1.793	2.000	1.5%	< 30	88.3%	89.7%	50 - 150	
Daminozide	0.000	2.413	2.344	2.000	2.9%	< 30	120.6%	117.2%	30 - 150	
Diazinon	0.000	0.461	0.448	0.400	2.9%	< 30	115.3%	112.0%	50 - 150	
Dichlorvos	0.000	2.571	2.763	2.000	7.2%	< 30	128.6%	138.1%	50 - 150	
Dimethoate	0.000	0.434	0.440	0.400	1.3%	< 30	108.5%	109.9%	50 - 150	
Ethoprophos	0.000	0.429	0.420	0.400	2.1%	< 30	107.3%	105.1%	50 - 150	
Etofenprox	0.000	1.137	1.179	0.800	3.6%	< 30	142.2%	147.4%	50 - 150	
Etoxazole	0.000	0.467	0.460	0.400	1.6%	< 30	116.8%	115.0%	50 - 150	
Fenoxycarb	0.000	0.445	0.432	0.400	2.9%	< 30	111.1%	107.9%	50 - 150	
Fenpyroximate	0.000	0.780	0.830	0.800	6.2%	< 30	97.5%	103.7%	50 - 150	
Fipronil	0.000	0.838	0.858	0.800	2.3%	< 30	104.8%	107.3%	50 - 150	
Fonicamid	0.000	1.119	1.132	1.000	1.2%	< 30	111.9%	113.2%	50 - 150	
Fludioxonil	0.000	0.923	0.916	0.800	0.8%	< 30	115.4%	114.4%	50 - 150	
Hexythiazox	0.000	1.249	1.302	1.000	4.2%	< 30	124.9%	130.2%	50 - 150	
Imazalil	0.000	0.449	0.427	0.400	5.0%	< 30	112.1%	106.7%	50 - 150	
Imidacloprid	0.000	0.848	0.841	0.800	0.9%	< 30	106.0%	105.1%	50 - 150	
Kresoxim-methyl	0.000	0.893	0.924	0.800	3.4%	< 30	111.6%	115.5%	50 - 150	
Malathion	0.000	0.440	0.449	0.400	2.0%	< 30	109.9%	112.1%	50 - 150	
Metaxalyl	0.000	0.432	0.431	0.400	0.3%	< 30	107.9%	107.6%	50 - 150	
Methiocarb	0.000	0.419	0.430	0.400	2.6%	< 30	104.8%	107.6%	50 - 150	
Methomyl	0.000	0.912	0.904	0.800	0.9%	< 30	114.0%	113.0%	50 - 150	
MGK-264	0.000	0.421	0.422	0.400	0.3%	< 30	105.1%	105.5%	50 - 150	
Myclobutanil	0.000	0.418	0.430	0.400	3.0%	< 30	104.4%	107.6%	50 - 150	
Naled	0.000	0.470	0.351	1.000	29.1%	< 30	47.0%	35.1%	50 - 150	Q
Oxamyl	0.000	2.247	2.296	2.000	2.2%	< 30	112.3%	114.8%	50 - 150	
Pacllobutrazole	0.000	0.869	0.865	0.800	0.4%	< 30	108.6%	108.1%	50 - 150	
Parathion-Methyl	0.000	1.650	1.864	0.800	12.2%	< 30	206.2%	233.0%	30 - 150	Q
Permethrin	0.000	0.581	0.599	0.400	3.1%	< 30	145.4%	149.9%	50 - 150	
Phosmet	0.000	0.450	0.449	0.400	0.4%	< 30	112.6%	112.2%	50 - 150	
Piperonyl butoxide	0.000	2.168	2.196	2.000	1.3%	< 30	108.4%	109.8%	50 - 150	
Prallethrin	0.000	0.438	0.439	0.400	0.2%	< 30	109.4%	109.7%	50 - 150	
Propiconazole	0.000	0.871	0.877	0.800	0.7%	< 30	108.9%	109.6%	50 - 150	
Propoxur	0.000	0.448	0.451	0.400	0.7%	< 30	112.1%	112.8%	50 - 150	
Pyrethrin (Summe)	0.000	0.314	0.308	0.413	1.8%	< 30	76.0%	74.7%	50 - 150	
Pyridaben	0.000	0.280	0.301	0.400	7.4%	< 30	69.9%	75.3%	50 - 150	
Spirosad	0.000	0.390	0.383	0.388	1.8%	< 30	100.4%	98.7%	50 - 150	
Spiromesifen	0.000	0.347	0.345	0.400	0.4%	< 30	86.7%	86.3%	50 - 150	
Spirotetramat	0.000	0.436	0.453	0.400	3.8%	< 30	108.9%	113.1%	50 - 150	
Spiroxamine	0.000	0.881	0.843	0.800	4.3%	< 30	110.1%	105.4%	50 - 150	
Tebuconazole	0.000	0.890	0.878	0.800	1.4%	< 30	111.3%	109.8%	50 - 150	
Thiacloprid	0.000	0.421	0.419	0.400	0.6%	< 30	105.4%	104.7%	50 - 150	
Thiamethoxam	0.000	0.422	0.474	0.400	11.7%	< 30	105.5%	118.6%	50 - 150	
Trifloxystrobin	0.000	0.426	0.441	0.400	3.3%	< 30	106.6%	110.2%	50 - 150	



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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2204399					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		614	572	µg/g	107.3	60 - 120	
Isobutane	ND	< 200		937	731	µg/g	128.2	60 - 120	Q1
Butane	ND	< 200		918	731	µg/g	125.6	60 - 120	Q1
2,2-Dimethylpropane	ND	< 200		1090	936	µg/g	116.5	60 - 120	
Methanol	ND	< 200		1830	1620	µg/g	113.0	60 - 120	
Ethylene Oxide	ND	< 30		79.9	56.2	µg/g	142.2	60 - 120	Q1
2-Methylbutane	ND	< 200		1850	1620	µg/g	114.2	60 - 120	
Pentane	ND	< 200		1840	1610	µg/g	114.3	60 - 120	
Ethanol	ND	< 200		2020	1630	µg/g	123.9	70 - 130	
Ethyl Ether	ND	< 200		1790	1620	µg/g	110.5	60 - 120	
2,2-Dimethylbutane	ND	< 30		190	174	µg/g	109.2	60 - 120	
Acetone	ND	< 200		1660	1650	µg/g	100.6	60 - 120	
2-Propanol	ND	< 200		1850	1610	µg/g	114.9	60 - 120	
Acetonitrile	ND	< 100		577	498	µg/g	115.9	60 - 120	
2,3-Dimethylbutane	ND	< 30		168	176	µg/g	95.5	60 - 120	
Dichloromethane	ND	< 60		611	510	µg/g	119.8	60 - 120	
2-Methylpentane	ND	< 30		185	176	µg/g	105.1	60 - 120	
3-Methylpentane	ND	< 30		191	175	µg/g	109.1	60 - 120	
Hexane	ND	< 30		195	177	µg/g	110.2	60 - 120	
Ethyl acetate	ND	< 200		1880	1630	µg/g	115.3	60 - 120	
2-Butanol	ND	< 200		2250	1620	µg/g	138.9	60 - 120	Q1
Tetrahydrofuran	ND	< 100		572	500	µg/g	114.4	60 - 120	
Cyclohexane	ND	< 200		1770	1620	µg/g	109.3	60 - 120	
Benzene	ND	< 1		5.53	5.32	µg/g	103.9	60 - 120	
Isopropyl Acetate	ND	< 200		1760	1620	µg/g	108.6	60 - 120	
Heptane	ND	< 200		1810	1770	µg/g	102.3	60 - 120	
1,4-Dioxane	ND	< 100		599	504	µg/g	118.8	60 - 120	
2-Ethoxyethanol	ND	< 30		223	181	µg/g	123.2	60 - 120	Q1
Ethylene Glycol	ND	< 200		373	494	µg/g	75.5	60 - 120	
Toluene	ND	< 100		570	491	µg/g	116.1	60 - 120	
Ethylbenzene	ND	< 200		1160	973	µg/g	119.2	60 - 120	
m,p-Xylene	ND	< 200		1160	996	µg/g	116.5	60 - 120	
o-Xylene	ND	< 200		1190	973	µg/g	122.3	60 - 120	Q1
Cumene	ND	< 30		223	170	µg/g	131.2	60 - 120	Q1



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QC - Sample Duplicate			Sample ID: 22-005731-0001					
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	323	ND	200	µg/g	47.0	< 20	FAIL	Q4, R2
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	104	ND	100	µg/g	3.9	< 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
- Q1 - Quality control result biased high. Only non-detect samples reported.
- Q4 - Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
- R2 - Sample replicates RPD non-calculable, as only one replicate is within analytical range.

Units of Measure:

µg/g - Microgram per gram or ppm



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

Report Number: 22-005705/D003.R000
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Purchase Order: DT05112022-Delta 8
Received: 05/17/22 12:19





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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.