



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	Batch	Analyze				
						µg/g	2204399	05/24/22 03:09 PM									
Analyte	Method	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes					
1,4-Dioxane		< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass						
2-Ethoxyethanol		< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200							
2-Methylpentane		< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass						
2,2-Dimethylbutane		< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200							
2,3-Dimethylbutane		< LOQ		30.0			3-Methylpentane	< LOQ		30.0							
Acetone		< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass						
Benzene		< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass						
Cyclohexane		< LOQ	3880	200	pass		Ethyl acetate	< LOQ	5000	200	pass						
Ethyl benzene		< LOQ		200			Ethyl ether	< LOQ	5000	200	pass						
Ethylene glycol		< LOQ	620	200	pass		Ethylene oxide	< LOQ	50.0	20.0	pass						
Hexanes (sum)		< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass						
Isopropylbenzene (Cumene)		< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200							
Methanol		< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	60.0	pass						
Methylpropane (Isobutane)		< LOQ		200			n-Butane	< LOQ		200							
n-Heptane		< LOQ	5000	200	pass		n-Hexane	< LOQ		30.0							
n-Pentane		< LOQ		200			o-Xylene	< LOQ		200							
Pentanes (sum)		< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass						
Tetrahydrofuran		< LOQ	720	100	pass		Toluene	< LOQ	890	100	pass						
Total Xylenes		< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass						



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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 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		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifentazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.200	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		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:			Date	Time	Signature - Received By:			Date	Time	Lab Use Only:																		
			05/11/22	10:15am EST	DS			5/17/22	12:19	<input checked="" type="checkbox"/> Shipped Via: <u>UPS</u> or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>21.61</u> 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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ORELAP#: OR100028
Purchase Order: DT05112022-Delta 8
Received: 05/17/22 12:19

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

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:



12423 NE Whitaker Way
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503-254-1794

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Revision: 3 Document ID: 3120
Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 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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Revision: 3 Document ID: 3120
Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg				Batch ID: 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		
Acetaminophen	0.000	5.527	7.247	4.000	26.9%	< 30	138.2%	181.2%	50 - 150	Q	
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		
Spinosad	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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Revision: Document ID:
 Legacy ID: Effective:

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

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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.