Columbia LABORATORIES
A Tentamus Company

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

Report Number: 22-012213/D002.R001
Report Date: 10/18/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/10/22 10:06

This is an amended version of report# 22-012213/D002.R000.
Reason: Updated reporting units.

Customer: French Broad Cannabis
Product identity: Blackberry Square 2772022FBB0000550 D8 40 mg
Client/Metrc ID: .
Laboratory ID: 22-012213-0003

Summary

Potency:

Analyte per 4.5g	Result	Limits	Units	Status
Δ8-THC per 4.5g	39.7		mg/4.5g	

CBD-Total per Serving Size <LOQ

THC-Total per Serving Size <LOQ

(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.

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Customer: French Broad Cannabis
8101 royal ridge parkway
Irving Texas 75063
United States of America (USA)

Product identity: Blackberry Square 2772022FBB0000550 D8 40 mg
Client/Metrc ID: .
Sample Date:
Laboratory ID: 22-012213-0003
Evidence of Cooling: No
Temp: 21.7
Relinquished by: ups
Serving Size #1: 4.5 g

Sample Results

Potency per 4.5g **Method:** J AOAC 2015 V98-6 (mod)þ **Units** mg/se **Batch:** 2208671 **Analyze:** 10/12/22 2:37:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 4.5g	< LOQ		mg/4.5g	0.147	
CBD-A per 4.5g	< LOQ		mg/4.5g	0.108	
CBD-Total per 4.5g	< LOQ		mg/4.5g	0.277	
CBG per 4.5g	< LOQ		mg/4.5g	0.108	
CBG-A per 4.5g	< LOQ		mg/4.5g	0.108	
CBG-Total per 4.5g	< LOQ		mg/4.5g	0.202	
CBN per 4.5g	< LOQ		mg/4.5g	0.108	
Δ10-THC per 4.5g	< LOQ		mg/4.5g	0.108	
Δ8-THC per 4.5g	39.7		mg/4.5g	0.147	
Δ9-THC per 4.5g	< LOQ		mg/4.5g	0.108	
THC-A per 4.5g	< LOQ		mg/4.5g	0.147	
THC-Total per 4.5g	< LOQ		mg/4.5g	0.277	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2208591	10/13/22	AOAC 990.12 (Petrifilm)þ		
E.coli	< LOQ		cfu/g	10	2208589	10/13/22	AOAC 991.14 (Petrifilm)þ		
Total Coliforms	< LOQ		cfu/g	10	2208589	10/13/22	AOAC 991.14 (Petrifilm)þ		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2208590	10/14/22	AOAC 2014.05 (RAPID)þ		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2208590	10/14/22	AOAC 2014.05 (RAPID)þ		

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Solvents **Method:** Residual Solvents by GC/MS^{b} **Units** µg/g **Batch** 2208702 **Analyze** 10/13/22 10:26 AM

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

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Pesticides

Method: AOAC 2007.01 & EN 15662 (mod)þ **Units** mg/kg **Batch** 2208818 **Analyze** 10/17/22 01:18 PM

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	
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	Analyzed	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0152	2208736	10/13/22	AOAC 2013.06 (mod.)þ	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0152	2208736	10/13/22	AOAC 2013.06 (mod.)þ	pass	
Lead	< LOQ	0.500	mg/kg	0.0152	2208736	10/13/22	AOAC 2013.06 (mod.)þ	pass	
Mercury	< LOQ	0.100	mg/kg	0.00760	2208736	10/13/22	AOAC 2013.06 (mod.)þ	pass	

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These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

ᵇ = ISO/IEC 17025:2017 accredited method.
¥ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram
g = g
µg/g = Microgram per gram
mg/kg = Milligram per kilogram = parts per million (ppm)
mg/4.5g = Milligram per 4.5g
% = Percentage of sample
% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

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Columbia LABORATORIES A Tentamus Company

Hemp & Cannabis: Usable / Extract / Finished Produ

Chain of Custody Record

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

FENCHBROAD 22-012213
French Broad Cannabis

): 2832 Revision: 5
ctive: 01/04/2022

Company: French Broad Cannabis
Contact: Deanna Petrin
Address: 8101 Royal Ridge Parkway
City: Irving **State:** TX **Zip Code:** 75063
☑ **Email Results:** DROPBOX deanna@devmgf.com
☑ **Ph:** (469) - 373 - 3200

Billing Contact (if different)

Name: CC AUTH ON FILE **Email:**
Address:
City: **State:** **Zip:**
Ph: (____) -

Batch ID:
Sampled by:
Custom Reporting:

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*
**Check for availability*

Lab ID	Client Sample Identification	Sample date	Pesticides Oregon (P2120)	Residual Solvents Oregon (H0008)	Heavy Metals (H0013)	Mycotoxins (H0042)	Micro Profile D (M1010)	Terpenes (H0030)	Potency- Basic (H0014)	Potency Baisic + Expanded (H0010)	Potency Basic + ADCs (H0015)	Other:	Material Type †	Weight (Units)	Comments/Metrc ID
	Peach Square 2772022FBB0000551 D9 10mg CBN 20mg	10/04/22	✓	✓	✓		✓		✓				E	39.6g-45g	Contains Active as Noted
	Mango Square 2762022FBB0000549 D9 10mg HHC 20mg	10/03/22	✓	✓	✓		✓				✓		E	39.6g-45g	Please report in mg/serving
	Blackberry Square 2772022FBB0000550 D8 40mg	10/04/22	✓	✓	✓		✓		✓				E	39.6g-45g	Standard Serving Sizes: D8: 3.3g D9: 3.75g/3.3g HHC: 3.3g D10: 3.3g THCO: 3.3g CBD:3.3g Mother Liquor: 3.3g Diamonds: 5g Hearts: 6g

Signature - Relinquished By:	Date	Time	Signature - Received By:	Date	Time
Deanna Petrin	10/06/22		JF	10/10	10:06

Lab Use Only:
☒ Shipped Via: UPS or ☐ Client drop off
Evidence of cooling: ☐ Yes | ☒ No - Temp (°C): 21.7
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

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Received: 10/10/22 10:06

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

Laboratory Quality Control Results

JAOAC 2015 V98-6 Batch ID: 2208671

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	%Rec	Limits	Evaluation	Notes
CBDVA	2	0.0373	0.034	%	108	80.0 - 120	Acceptable	
CBDV	2	0.0395	0.037	%	108	80.0 - 120	Acceptable	
CBE	2	0.0377	0.035	%	108	80.0 - 120	Acceptable	
CBDA	1	0.0321	0.033	%	96.0	90.0 - 110	Acceptable	
CBGA	1	0.0324	0.034	%	96.5	80.0 - 120	Acceptable	
CBG	1	0.0335	0.034	%	97.5	80.0 - 120	Acceptable	
CBD	1	0.0363	0.034	%	106	90.0 - 110	Acceptable	
THCV	2	0.0400	0.038	%	106	80.0 - 120	Acceptable	
d8THCV	2	0.0388	0.037	%	106	80.0 - 120	Acceptable	
THCVA	2	0.0360	0.034	%	107	80.0 - 120	Acceptable	
CBN	1	0.0329	0.034	%	97.7	90.0 - 110	Acceptable	
exo-THC	2	0.0362	0.034	%	106	80.0 - 120	Acceptable	
d9THC	1	0.0337	0.035	%	97.6	90.0 - 110	Acceptable	
d8THC	1	0.0346	0.033	%	103	90.0 - 110	Acceptable	
CBL	2	0.0348	0.033	%	106	80.0 - 120	Acceptable	
9S-HHC	3	0.0316	0.033	%	94.8	80.0 - 120	Acceptable	
d10THC	1	0.0307	0.032	%	96.4	80.0 - 120	Acceptable	
CBC	2	0.0384	0.036	%	107	80.0 - 120	Acceptable	
9R-HHC	3	0.0302	0.033	%	90.5	80.0 - 120	Acceptable	
THCA	1	0.0327	0.033	%	98.7	90.0 - 110	Acceptable	
CBCA	2	0.0377	0.035	%	107	80.0 - 120	Acceptable	
CBLA	2	0.0190	0.019	%	102	80.0 - 120	Acceptable	
d8THCO	3	0.0344	0.033	%	103	80.0 - 120	Acceptable	
CBT	2	0.0378	0.037	%	101	80.0 - 120	Acceptable	
d9THCO	3	0.0354	0.033	%	106	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	
9S-HHC	<LOQ	0.003	%	< 0.003	Acceptable	
d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
9R-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
LOQ - Limit of Quantitation

Units of Measure:

% - Percent

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

Laboratory Quality Control Results

JAOAC 2015 V98-6 — Batch ID: 2208671
Sample Duplicate — Sample ID: 22-012106-0001

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	0.0040	0.0040	0.003	%	0.831	< 20	Acceptable	
CBG	0.0059	0.0059	0.003	%	0.207	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 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	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.245	0.246	0.003	%	0.618	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9S-HHC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0039	0.0040	0.003	%	1.17	< 20	Acceptable	
9R-HHC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCA	0.0119	0.0120	0.003	%	0.236	< 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	<LOQ	<LOQ	0.003	%	NA	< 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:

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

Laboratory Quality Control Results

Residual Solvents — Batch ID: 2208702

Method Blank					Laboratory Control Sample							
Analyte	Result		LOQ	Notes	Result	Spike	Units	%Rec	Limits			Notes
Propane	ND	<	200		401	572	µg/g	70.1	60	-	120	
Isobutane	ND	<	200		500	731	µg/g	68.4	60	-	120	
Butane	ND	<	200		484	731	µg/g	66.2	60	-	120	
2,2-Dimethylpropane	ND	<	200		736	936	µg/g	78.6	60	-	120	
Methanol	ND	<	200		1380	1650	µg/g	83.6	60	-	120	
Ethylene Oxide	ND	<	30		40.3	56.2	µg/g	71.7	60	-	120	
2-Methylbutane	ND	<	200		1200	1650	µg/g	72.7	60	-	120	
Pentane	ND	<	200		1210	1650	µg/g	73.3	60	-	120	
Ethanol	ND	<	200		1330	1660	µg/g	80.1	70	-	130	
Ethyl Ether	ND	<	200		1240	1630	µg/g	76.1	60	-	120	
2,2-Dimethylbutane	ND	<	30		134	189	µg/g	70.9	60	-	120	
Acetone	ND	<	200		1280	1650	µg/g	77.6	60	-	120	
2-Propanol	ND	<	200		1310	1650	µg/g	79.4	60	-	120	
Ethyl Formate	ND	<	500		1120	1610	µg/g	69.6	70	-	130	Q6
Acetonitrile	ND	<	100		405	504	µg/g	80.4	60	-	120	
Methyl Acetate	ND	<	500		1200	1630	µg/g	73.6	70	-	130	
2,3-Dimethylbutane	ND	<	30		136	174	µg/g	78.2	60	-	120	
Dichloromethane	ND	<	60		414	521	µg/g	79.5	60	-	120	
2-Methylpentane	ND	<	30		140	187	µg/g	74.9	60	-	120	
MTBE	ND	<	500		1220	1600	µg/g	76.3	70	-	130	
3-Methylpentane	ND	<	30		146	188	µg/g	77.7	60	-	120	
Hexane	ND	<	30		147	182	µg/g	80.8	60	-	120	
1-Propanol	ND	<	500		1190	1610	µg/g	73.9	70	-	130	
Methylethylketone	ND	<	500		1210	1600	µg/g	75.6	70	-	130	
Ethyl acetate	ND	<	200		1280	1630	µg/g	78.5	60	-	120	
2-Butanol	ND	<	200		1250	1630	µg/g	76.7	60	-	120	
Tetrahydrofuran	ND	<	100		377	506	µg/g	74.5	60	-	120	
Cyclohexane	ND	<	200		1220	1640	µg/g	74.4	60	-	120	
2-methyl-1-propanol	ND	<	500		1170	1620	µg/g	72.2	70	-	130	
Benzene	ND	<	1		3.71	4.93	µg/g	75.3	60	-	120	
Isopropyl Acetate	ND	<	200		1300	1640	µg/g	79.3	60	-	120	
Heptane	ND	<	200		1140	1630	µg/g	69.9	60	-	120	
1-Butanol	ND	<	500		1180	1600	µg/g	73.8	70	-	130	
Propyl Acetate	ND	<	500		1270	1620	µg/g	78.4	70	-	130	
1,4-Dioxane	ND	<	100		388	493	µg/g	78.7	60	-	120	
2-Ethoxyethanol	ND	<	30		151	171	µg/g	88.3	60	-	120	
Methylisobutylketone	ND	<	500		1260	1620	µg/g	77.8	70	-	130	
3-Methyl-1-butanol	ND	<	500		1230	1610	µg/g	76.4	70	-	130	
Ethylene Glycol	ND	<	200		388	494	µg/g	78.5	60	-	120	
Toluene	ND	<	100		387	506	µg/g	76.5	60	-	120	
Isobutyl Acetate	ND	<	500		1210	1620	µg/g	74.7	70	-	130	
1-Pentanol	ND	<	500		1170	1610	µg/g	72.7	70	-	130	
Butyl Acetate	ND	<	500		1180	1610	µg/g	73.3	70	-	130	
Ethylbenzene	ND	<	200		771	996	µg/g	77.4	60	-	120	
m,p-Xylene	ND	<	200		784	1010	µg/g	77.6	60	-	120	
o-Xylene	ND	<	200		750	979	µg/g	76.6	60	-	120	
Cumene	ND	<	30		136	188	µg/g	72.3	60	-	120	
Anisole	ND	<	500		1240	1610	µg/g	77.0	70	-	130	
DMSO	ND	<	500		1200	1600	µg/g	75.0	70	-	130	
1,2-dimethoxyethane	ND	<	50		139	190	µg/g	73.2	70	-	130	
Triethylamine	ND	<	500		1160	1610	µg/g	72.0	70	-	130	
N,N-dimethylformamide	ND	<	150		354	496	µg/g	71.4	70	-	130	
N,N-dimethylacetamide	ND	<	150		377	483	µg/g	78.1	70	-	130	
Pyridine	ND	<	50		121	167	µg/g	72.5	70	-	130	
Sulfolane	ND	<	50		120	161	µg/g	74.5	70	-	130	
1,2-Dichloroethane	ND	<	1		0.833	1	µg/g	83.3	70	-	130	
Chloroform	ND	<	1		0.826	1	µg/g	82.6	70	-	130	
Trichloroethylene	ND	<	1		0.846	1	µg/g	84.6	70	-	130	
1,1-Dichloroethane	ND	<	1		0.797	1	µg/g	79.7	70	-	130	

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QC- Sample Duplicate — Sample ID: 22-011997-0001

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	5020	5200	200	µg/g	3.5	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methylethylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,1-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation
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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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 **Units:** mg/Kg **Batch ID:** 2208818

Method Blank				Laboratory Control Sample					
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**		**Notes**
Abamectin	0.000	< 0.250		0.800	1.000	80.0	50.0	150	
Acephate	0.000	< 0.250		0.932	1.000	93.2	60.0	120	
Acequinocyl	0.000	< 1.000		3.041	4.000	76.0	40.0	160	
Acetamiprid	0.000	< 0.100		0.354	0.400	88.5	60.0	120	
Aldicarb	0.000	< 0.200		0.730	0.800	91.3	60.0	120	
Azoxystrobin	0.000	< 0.100		0.301	0.400	75.3	60.0	120	
Bifenazate	0.000	< 0.100		0.308	0.400	76.9	60.0	120	
Bifenthrin	0.000	< 0.100		0.356	0.400	88.9	50.0	150	
Boscalid	0.000	< 0.200		0.563	0.800	70.4	60.0	120	
Carbaryl	0.000	< 0.100		0.378	0.400	94.5	60.0	120	
Carbofuran	0.000	< 0.100		0.376	0.400	93.9	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.270	0.400	67.4	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.516	2.000	75.8	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.306	0.400	76.6	60.0	120	
Clofentezine	0.000	< 0.100		0.035	0.400	***8.6***	60.0	120	**Q6**
Cyfluthrin	0.000	< 0.500		1.782	2.000	89.1	50.0	150	
Cypermethrin	0.000	< 0.500		1.698	2.000	84.9	50.0	150	
Daminozide	0.000	< 0.500		0.756	2.000	***37.8***	60.0	120	**Q6**
Diazinon	0.000	< 0.100		0.318	0.400	79.6	60.0	120	
Dichlorvos	0.000	< 0.500		1.933	2.000	96.6	60.0	120	
Dimethoate	0.000	< 0.100		0.378	0.400	94.6	60.0	120	
Ethoprophos	0.000	< 0.100		0.359	0.400	89.7	60.0	120	
Etofenprox	0.000	< 0.200		0.709	0.800	88.7	50.0	150	
Etoxazole	0.000	< 0.100		0.315	0.400	78.8	60.0	120	
Fenoxycarb	0.000	< 0.100		0.294	0.400	73.5	60.0	120	
Fenpyroximate	0.000	< 0.200		0.639	0.800	79.8	60.0	120	
Fipronil	0.000	< 0.200		0.547	0.800	68.4	60.0	120	
Flonicamid	0.000	< 0.250		0.833	1.000	83.3	60.0	120	
Fludioxonil	0.000	< 0.200		0.737	0.800	92.2	50.0	150	
Hexythiazox	0.000	< 0.250		0.751	1.000	75.1	60.0	120	
Imazalil	0.000	< 0.100		0.325	0.400	81.3	60.0	120	
Imidacloprid	0.000	< 0.200		0.625	0.800	78.1	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.641	0.800	80.2	60.0	120	
Malathion	0.000	< 0.100		0.332	0.400	82.9	60.0	120	
Metalaxyl	0.000	< 0.100		0.350	0.400	87.4	60.0	120	
Methiocarb	0.000	< 0.100		0.352	0.400	88.0	60.0	120	
Methomyl	0.000	< 0.200		0.693	0.800	86.6	60.0	120	
MGK-264	0.000	< 0.100		0.295	0.400	73.7	50.0	150	
Myclobutanil	0.000	< 0.100		0.297	0.400	74.2	60.0	120	
Naled	0.000	< 0.250		0.684	1.000	68.4	50.0	150	
Oxamyl	0.000	< 0.500		1.401	2.000	70.1	60.0	120	
Paclobutrazole	0.000	< 0.200		0.586	0.800	73.2	60.0	120	
Parathion-Methyl	0.000	< 0.200		0.618	0.800	77.3	50.0	150	
Permethrin	0.000	< 0.100		0.350	0.400	87.5	50.0	150	
Phosmet	0.000	< 0.100		0.317	0.400	79.3	50.0	150	
Piperonyl butoxide	0.000	< 0.500		1.509	2.000	75.4	60.0	120	
Prallethrin	0.000	< 0.100		0.281	0.400	70.2	60.0	120	
Propiconazole	0.000	< 0.200		0.576	0.800	72.0	60.0	120	
Propoxur	0.000	< 0.100		0.385	0.400	96.1	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.296	0.413	71.7	60.0	120	
Pyridaben	0.000	< 0.100		0.322	0.400	80.5	50.0	150	
Spinosad	0.000	< 0.100		0.293	0.388	75.6	50.0	150	
Spiromesifen	0.000	< 0.100		0.333	0.400	83.2	60.0	120	
Spirotetramat	0.000	< 0.100		0.272	0.400	67.9	60.0	120	
Spiroxamine	0.000	< 0.200		0.634	0.800	79.2	60.0	120	
Tebuconazole	0.000	< 0.200		0.596	0.800	74.5	60.0	120	
Thiacloprid	0.000	< 0.100		0.349	0.400	87.2	60.0	120	
Thiamethoxam	0.000	< 0.100		0.329	0.400	82.3	60.0	120	
Trifloxystrobin	0.000	< 0.100		0.299	0.400	74.9	60.0	120	

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 — **Units:** mg/Kg — **Batch ID:** 2208818

Matrix Spike/Matrix Spike Duplicate Recoveries — **Sample ID:** 22-012206-0001

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.923	0.957	1.000	3.6%	< 30	92.3%	95.7%	50 - 150	
Acephate	0.000	1.230	1.176	1.000	4.5%	< 30	123.0%	117.6%	50 - 150	
Acequinocyl	0.000	3.601	3.589	4.000	0.3%	< 30	90.0%	89.7%	50 - 150	
Acetamiprid	0.000	0.470	0.471	0.400	0.2%	< 30	117.6%	117.8%	50 - 150	
Aldicarb	0.000	0.307	0.307	0.800	0.1%	< 30	38.4%	38.3%	50 - 150	Q
Azoxystrobin	0.000	0.432	0.426	0.400	1.5%	< 30	107.9%	106.4%	50 - 150	
Bifenazate	0.000	0.386	0.388	0.400	0.5%	< 30	96.5%	97.0%	50 - 150	
Bifenthrin	0.000	0.371	0.369	0.400	0.4%	< 30	92.6%	92.3%	50 - 150	
Boscalid	0.000	0.698	0.679	0.800	2.7%	< 30	87.2%	84.9%	50 - 150	
Carbaryl	0.000	0.496	0.486	0.400	2.1%	< 30	124.1%	121.5%	50 - 150	
Carbofuran	0.000	0.535	0.537	0.400	0.4%	< 30	133.8%	134.3%	50 - 150	
Chlorantraniliprole	0.000	0.330	0.331	0.400	0.3%	< 30	82.5%	82.7%	50 - 150	
Chlorfenapyr	0.000	1.767	1.869	2.000	5.6%	< 30	88.4%	93.5%	50 - 150	
Chlorpyrifos	0.000	0.376	0.375	0.400	0.4%	< 30	94.0%	93.6%	50 - 150	
Clofentezine	0.000	0.245	0.234	0.400	4.7%	< 30	61.2%	58.4%	50 - 150	
Cyfluthrin	0.000	1.634	1.764	2.000	7.6%	< 30	81.7%	88.2%	30 - 150	
Cypermethrin	0.000	1.697	1.726	2.000	1.7%	< 30	84.9%	86.3%	50 - 150	
Daminozide	0.000	1.353	1.322	2.000	2.3%	< 30	67.6%	66.1%	30 - 150	
Diazinon	0.000	0.433	0.410	0.400	5.5%	< 30	108.3%	102.5%	50 - 150	
Dichlorvos	0.000	2.249	2.228	2.000	1.0%	< 30	112.5%	111.4%	50 - 150	
Dimethoate	0.000	0.438	0.434	0.400	1.0%	< 30	109.5%	108.4%	50 - 150	
Ethoprophos	0.000	0.408	0.406	0.400	0.5%	< 30	102.1%	101.6%	50 - 150	
Etofenprox	0.000	0.804	0.806	0.800	0.3%	< 30	100.5%	100.8%	50 - 150	
Etoxazole	0.000	0.400	0.401	0.400	0.4%	< 30	99.9%	100.3%	50 - 150	
Fenoxycarb	0.000	0.378	0.374	0.400	1.0%	< 30	94.4%	93.5%	50 - 150	
Fenpyroximate	0.000	0.707	0.727	0.800	2.8%	< 30	88.3%	90.9%	50 - 150	
Fipronil	0.000	0.706	0.726	0.800	2.9%	< 30	88.2%	90.8%	50 - 150	
Flonicamid	0.000	0.803	0.806	1.000	0.4%	< 30	80.3%	80.6%	50 - 150	
Fludioxonil	0.000	0.800	0.799	0.800	0.2%	< 30	100.1%	99.8%	50 - 150	
Hexythiazox	0.000	0.954	0.989	1.000	3.6%	< 30	95.4%	98.9%	50 - 150	
Imazalil	0.000	0.455	0.448	0.400	1.5%	< 30	113.8%	112.1%	50 - 150	
Imidacloprid	0.000	0.537	0.542	0.800	0.8%	< 30	67.2%	67.7%	50 - 150	
Kresoxim-methyl	0.000	0.823	0.840	0.800	2.0%	< 30	102.9%	105.0%	50 - 150	
Malathion	0.000	0.427	0.420	0.400	1.7%	< 30	106.8%	105.0%	50 - 150	
Metalaxyl	0.000	0.415	0.419	0.400	1.0%	< 30	103.8%	104.8%	50 - 150	
Methiocarb	0.000	0.407	0.409	0.400	0.5%	< 30	101.8%	102.3%	50 - 150	
Methomyl	0.000	0.785	0.787	0.800	0.3%	< 30	98.1%	98.3%	50 - 150	
MGK-264	0.000	0.369	0.383	0.400	3.7%	< 30	92.2%	95.7%	50 - 150	
Myclobutanil	0.000	0.360	0.368	0.400	2.1%	< 30	90.0%	92.0%	50 - 150	
Naled	0.000	1.031	1.036	1.000	0.5%	< 30	103.1%	103.6%	50 - 150	
Oxamyl	0.000	1.847	1.912	2.000	3.4%	< 30	92.4%	95.6%	50 - 150	
Paclobutrazole	0.000	0.751	0.748	0.800	0.4%	< 30	93.8%	93.5%	50 - 150	
Parathion-Methyl	0.000	0.941	0.911	0.800	3.3%	< 30	117.7%	113.8%	30 - 150	
Permethrin	0.000	0.357	0.354	0.400	0.8%	< 30	89.2%	88.5%	50 - 150	
Phosmet	0.000	0.378	0.386	0.400	2.2%	< 30	94.4%	96.6%	50 - 150	
Piperonyl butoxide	0.000	1.947	1.905	2.000	2.1%	< 30	97.3%	95.3%	50 - 150	
Prallethrin	0.000	0.367	0.371	0.400	1.0%	< 30	91.7%	92.7%	50 - 150	
Propiconazole	0.000	0.762	0.772	0.800	1.4%	< 30	95.2%	96.5%	50 - 150	
Propoxur	0.000	0.510	0.510	0.400	0.0%	< 30	127.5%	127.6%	50 - 150	
Pyrethrin (Summe)	0.000	0.642	0.646	0.413	0.7%	< 30	155.5%	156.5%	50 - 150	Q
Pyridaben	0.000	0.395	0.406	0.400	2.6%	< 30	98.8%	101.4%	50 - 150	
Spinosad	0.000	0.387	0.399	0.388	3.0%	< 30	99.7%	102.8%	50 - 150	
Spiromesifen	0.000	0.409	0.412	0.400	0.8%	< 30	102.2%	103.0%	50 - 150	
Spirotetramat	0.000	0.340	0.341	0.400	0.3%	< 30	85.0%	85.3%	50 - 150	
Spiroxamine	0.000	0.831	0.813	0.800	2.2%	< 30	103.9%	101.6%	50 - 150	
Tebuconazole	0.000	0.771	0.745	0.800	3.4%	< 30	96.4%	93.2%	50 - 150	
Thiacloprid	0.000	0.161	0.158	0.400	2.0%	< 30	40.3%	39.5%	50 - 150	Q
Thiamethoxam	0.000	0.310	0.325	0.400	4.7%	< 30	77.5%	81.2%	50 - 150	
Trifloxystrobin	0.000	0.362	0.360	0.400	0.7%	< 30	90.6%	90.0%	50 - 150	

Columbia LABORATORIES
A Tentamus Company

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

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Report Date:	10/18/2022
ORELAP#:	OR100028
Purchase Order:	
Received:	10/10/22 10:06

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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	Quantitaion 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.