CYCLING FROG
ARTISAN EXTRACTS

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU SLZ.D9.GF5.6PK **BATCH #** FC21X

PRODUCT NAME Ruby Grapefruit Seltzer **SERVING SIZE** 1/3 can (118 mL)

LABORATORY: Columbia Laboratories **OREGON ACCREDITATION:** OR100028

LOQ: Limit Of Quantitation
LOD: Limit Of Detection

1 g = 10^{-3} kg = 10^{3} mg = 10^{6} µg 1 mg/kg = 1 ppm = 1000 ppb

POTENCY	PER SERVING		PER GRAM		Percent
Cannabidiol (CBD)	3.66	**mg/serving**	0.03	mg/g	0.00 %
Total THC (d9-THC, THCA)	**1.85**	**mg/serving**	0.02	mg/g	0.00 %
Cannabigerol (CBG)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
Cannabinol (CBN)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
Cannabichromene (CBC)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
Tetrahydrocannabinolic Acid (THCA)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
Delta-9-THC (d9-THC)	**1.85**	**mg/serving**	0.02	mg/g	0.00 %
Delta-8-THC (d8-THC)	**0.41**	**mg/serving**	0.00	mg/g	0.00 %

HEAVY METALS	PER SERVING		PER GRAM		REGULATORY ACTION LEVEL
Arsenic	**<LOQ**	**µg/serving**	<LOQ	µg/g	10 µg/day [1]
Cadmium	**<LOQ**	**µg/serving**	<LOQ	µg/g	4.1 µg/day [1]
Lead	**<LOQ**	**µg/serving**	<LOQ	µg/g	6 µg/day [1]
Mercury	**<LOQ**	**µg/serving**	<LOQ	µg/g	2 µg/day [1]

PESTICIDES	REGULATORY ACTION LEVEL
None of the other 59 pesticides tested found above limit of detection in the sample.	10 ppb [1]

RESIDUAL SOLVENTS	Results		REGULATORY ACTION LEVEL
Ethanol*	836	µg/g	50,000 mg/day
Heptane	<LOQ	µg/g	50,000 mg/day
None of the 34 residual solvents tested found above limit of quantitation in the sample.			

MICROBIAL	PASS/FAIL
Yeast & Mold	Pass
Coliform	Pass

1. American Herbal Pharmacopoeia. (2014). Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control. Washington DC: AHP.

*Ethanol is a food additive used in some of our ingredients. The FDA has labeled ethanol as Generally Recognized as Safe (GRAS). Many foods contain trace amounts of ethanol, including soy sauce, pasta sauces, fruits and juices, etc. Our products contain safe levels of ethanol and always below pertinent regulatory action levels.

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-004824/D007.R000
Report Date: 04/28/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/20/23 14:34

Customer: Etz Hayim Holdings
Product identity: CYCL- SLZ.D9.GF5.6PK-FC21X
Client/Metrc ID: .
Laboratory ID: 23-004824-0003

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status
CBD per 1g	0.0310		mg/1g	
Δ8-THC per 1g	0.00349		mg/1g	
Δ9-THC per 1g	0.0157		mg/1g	

CBD-Total per Serving Size 0.0310 mg/1g

THC-Total per Serving Size 0.0157 mg/1g

(Reported in milligrams per serving)

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Ethanol	836		

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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12423 NE Whitaker Way
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Report Number: 23-004824/D007.R000
Report Date: 04/28/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/20/23 14:34

Customer: Etz Hayim Holdings
16427 NE Airport Way
PORTLAND 97230
United States of America (USA)

Product identity: CYCL- SLZ.D9.GF5.6PK-FC21X
Client/Metrc ID: .
Sample Date:
Laboratory ID: 23-004824-0003
Evidence of Cooling: No
Temp: 19.7
Relinquished by: client
Serving Size #1: 1 g

Sample Results

Potency per 1g **Method:** J AOAC 2015 V98-6 (mod)[b] **Units** mg/se **Batch:** 2306691 **Analyze:** 4/24/23 10:15:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	< LOQ		mg/1g	0.000962	
CBC-A per 1g	< LOQ		mg/1g	0.000962	
CBC-Total per 1g	< LOQ		mg/1g	0.00181	
CBD per 1g	0.0310		mg/1g	0.000962	
CBD-A per 1g	< LOQ		mg/1g	0.000962	
CBD-Total per 1g	0.0310		mg/1g	0.00181	
CBDV per 1g	< LOQ		mg/1g	0.000962	
CBDV-A per 1g	< LOQ		mg/1g	0.000962	
CBDV-Total per 1g	< LOQ		mg/1g	0.00180	
CBE per 1g	< LOQ		mg/1g	0.000962	
CBG per 1g	< LOQ		mg/1g	0.000962	
CBG-A per 1g	< LOQ		mg/1g	0.000962	
CBG-Total per 1g	< LOQ		mg/1g	0.00180	
CBL per 1g	< LOQ		mg/1g	0.000962	
CBL-A per 1g	< LOQ		mg/1g	0.000962	
CBL-Total per 1g	< LOQ		mg/1g	0.00181	
CBN per 1g	< LOQ		mg/1g	0.000962	
CBT per 1g	< LOQ		mg/1g	0.000962	
Δ8-THCV per 1g	< LOQ		mg/1g	0.000962	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.000962	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.000962	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.00192	
Δ8-THC per 1g	0.00349		mg/1g	0.000962	
Δ9-THC per 1g	0.0157		mg/1g	0.000962	
exo-THC per 1g	< LOQ		mg/1g	0.000962	
THC-A per 1g	< LOQ		mg/1g	0.000962	
THC-Total per 1g	0.0157		mg/1g	0.00181	
THCV per 1g	< LOQ		mg/1g	0.000962	
THCV-A per 1g	< LOQ		mg/1g	0.000962	
THCV-Total per 1g	< LOQ		mg/1g	0.00181	

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Potency per 1g

Method: J AOAC 2015 V98-6 (mod)þ **Units** mg/se **Batch:** 2306691 **Analyze:** 4/24/23 10:15:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 1g	0.0502		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2306616	04/25/23	AOAC 991.14 (Petrifilm)þ		
Total Coliforms	< LOQ		cfu/g	10	2306616	04/25/23	AOAC 991.14 (Petrifilm)þ		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2306617	04/26/23	AOAC 2014.05 (RAPID)þ		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2306617	04/26/23	AOAC 2014.05 (RAPID)þ		

Solvents

Method: Residual Solvents by GC/MSþ **Units** µg/g **Batch** 2306790 **Analyze** 04/27/23 01:07 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		Ethanol	836		200		
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** 2306747 **Analyze** 04/26/23 02:57 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin[¥]	< LOQ	0.50	0.250	pass		Acephate[¥]	< LOQ	0.40	0.200	pass	
Acequinocyl[¥]	< LOQ	2.0	1.00	pass		Acetamiprid[¥]	< LOQ	0.20	0.100	pass	
Aldicarb[¥]	< LOQ	0.40	0.200	pass		Azoxystrobin[¥]	< LOQ	0.20	0.100	pass	
Bifenazate[¥]	< LOQ	0.20	0.100	pass		Bifenthrin[¥]	< LOQ	0.20	0.100	pass	
Boscalid[¥]	< LOQ	0.40	0.200	pass		Carbaryl[¥]	< LOQ	0.20	0.100	pass	
Carbofuran[¥]	< LOQ	0.20	0.100	pass		Chlorantraniliprole[¥]	< LOQ	0.20	0.100	pass	
Chlorfenapyr[¥]	< LOQ	1.0	0.500	pass		Chlorpyrifos[¥]	< LOQ	0.20	0.100	pass	
Clofentezine[¥]	< LOQ	0.20	0.100	pass		Cyfluthrin[¥]	< LOQ	1.0	0.500	pass	
Cypermethrin[¥]	< LOQ	1.0	0.500	pass		Daminozide[¥]	< LOQ	1.0	0.500	pass	
Diazinon[¥]	< LOQ	0.20	0.100	pass		Dichlorvos[¥]	< LOQ	1.0	0.500	pass	
Dimethoate[¥]	< LOQ	0.20	0.100	pass		Ethoprophos[¥]	< LOQ	0.20	0.100	pass	
Etofenprox[¥]	< LOQ	0.40	0.200	pass		Etoxazole[¥]	< LOQ	0.20	0.100	pass	
Fenoxycarb[¥]	< LOQ	0.20	0.100	pass		Fenpyroximate[¥]	< LOQ	0.40	0.200	pass	
Fipronil[¥]	< LOQ	0.40	0.200	pass		Flonicamid[¥]	< LOQ	1.0	0.400	pass	
Fludioxonil[¥]	< LOQ	0.40	0.200	pass		Hexythiazox[¥]	< LOQ	1.0	0.400	pass	
Imazalil[¥]	< LOQ	0.20	0.100	pass		Imidacloprid[¥]	< LOQ	0.40	0.200	pass	
Kresoxim-methyl[¥]	< LOQ	0.40	0.200	pass		Malathion[¥]	< LOQ	0.20	0.100	pass	
Metalaxyl[¥]	< LOQ	0.20	0.100	pass		Methiocarb[¥]	< LOQ	0.20	0.100	pass	
Methomyl[¥]	< LOQ	0.40	0.200	pass		MGK-264[¥]	< LOQ	0.20	0.100	pass	
Myclobutanil[¥]	< LOQ	0.20	0.100	pass		Naled[¥]	< LOQ	0.50	0.250	pass	
Oxamyl[¥]	< LOQ	1.0	0.500	pass		Paclobutrazole[¥]	< LOQ	0.40	0.200	pass	
Parathion-Methyl[¥]	< LOQ	0.20	0.100	pass		Permethrin[¥]	< LOQ	0.20	0.100	pass	
Phosmet[¥]	< LOQ	0.20	0.100	pass		Piperonyl butoxide[¥]	< LOQ	2.0	1.00	pass	
Prallethrin[¥]	< LOQ	0.20	0.100	pass		Propiconazole[¥]	< LOQ	0.40	0.200	pass	
Propoxur[¥]	< LOQ	0.20	0.100	pass		Pyrethrin I (total)[¥]	< LOQ	1.0	0.500	pass	
Pyridaben[¥]	< LOQ	0.20	0.100	pass		Spinosad[¥]	< LOQ	0.20	0.100	pass	
Spiromesifen[¥]	< LOQ	0.20	0.100	pass		Spirotetramat[¥]	< LOQ	0.20	0.100	pass	
Spiroxamine[¥]	< LOQ	0.40	0.200	pass		Tebuconazole[¥]	< LOQ	0.40	0.200	pass	
Thiacloprid[¥]	< LOQ	0.20	0.100	pass		Thiamethoxam[¥]	< LOQ	0.20	0.100	pass	
Trifloxystrobin[¥]	< LOQ	0.20	0.100	pass							

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Arsenic[¥]	< LOQ	0.200	mg/kg	0.00385	2306810	04/27/23	AOAC 2013.06 (mod.)[þ]	pass	
Cadmium[¥]	< LOQ	0.200	mg/kg	0.00385	2306810	04/27/23	AOAC 2013.06 (mod.)[þ]	pass	
Lead[¥]	< LOQ	0.500	mg/kg	0.00385	2306810	04/27/23	AOAC 2013.06 (mod.)[þ]	pass	
Mercury[¥]	< LOQ	0.100	mg/kg	0.00192	2306810	04/27/23	AOAC 2013.06 (mod.)[þ]	pass	

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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/1g = Milligram per 1g
% = Percentage of sample
% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

Columbia LABORATORIES
A Tentamus Company

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Portland, OR 97230
503-254-1794

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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2306691**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0009	0.001	%	98.2	80.0 - 120	Acceptable	
CBDV	2	0.0009	0.001	%	100	80.0 - 120	Acceptable	
CBE	2	0.0010	0.001	%	102	80.0 - 120	Acceptable	
CBDA	1	0.0009	0.001	%	92.7	90.0 - 110	Acceptable	
CBGA	1	0.0007	0.001	%	94.8	80.0 - 120	Acceptable	
CBG	1	0.0009	0.001	%	100	80.0 - 120	Acceptable	
CBD	1	0.0008	0.001	%	99.1	90.0 - 110	Acceptable	
THCV	2	0.0007	0.001	%	104	80.0 - 120	Acceptable	
d8THCV	2	0.0008	0.001	%	101	80.0 - 120	Acceptable	
THCVA	2	0.0009	0.001	%	96.6	80.0 - 120	Acceptable	
CBN	1	0.0008	0.001	%	102	80.0 - 120	Acceptable	
exo-THC	2	0.0009	0.001	%	100	80.0 - 120	Acceptable	
d9THC	1	0.0010	0.001	%	107	90.0 - 110	Acceptable	
d8THC	1	0.0010	0.001	%	104	90.0 - 110	Acceptable	
9S-d10THC	1	0.0010	0.001	%	103	80.0 - 120	Acceptable	
CBL	2	0.0010	0.001	%	103	80.0 - 120	Acceptable	
9R-d10THC	1	0.0009	0.001	%	95.3	80.0 - 120	Acceptable	
CBC	2	0.0009	0.001	%	101	80.0 - 120	Acceptable	
THCA	1	0.0010	0.001	%	91.9	90.0 - 110	Acceptable	
CBCA	2	0.0009	0.001	%	94.4	80.0 - 120	Acceptable	
CBLA	2	0.0009	0.001	%	95.8	80.0 - 120	Acceptable	
CBT	2	0.0010	0.001	%	97.9	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBDV	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBE	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBDA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBGA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBG	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBD	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCV	<LOQ	0.0001	%	< 0.0001	Acceptable	
d8THCV	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCVA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBN	<LOQ	0.0001	%	< 0.0001	Acceptable	
exo-THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
d9THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
d8THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
9S-d10THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBL	<LOQ	0.0001	%	< 0.0001	Acceptable	
9R-d10THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBC	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBCA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBLA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBT	<LOQ	0.0001	%	< 0.0001	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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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2306691**

Sample Duplicate Sample ID: **22-015393-0007**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBD	0.0062	0.0061	0.0001	%	1.12	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.0001	%	NA	< 20	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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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 **Units:** mg/Kg **Batch ID:** 2306747

Method Blank				Laboratory Control Sample					
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**		**Notes**
Abamectin	0.000	< 0.250		0.912	1.000	91.2	50.0	150	
Acephate	0.008	< 0.200		0.789	0.800	98.6	60.0	120	
Acequinocyl	0.000	< 1.000		3.984	4.000	99.6	40.0	160	
Acetamiprid	0.000	< 0.100		0.400	0.400	100.0	60.0	120	
Aldicarb	0.000	< 0.200		0.854	0.800	106.7	60.0	120	
Azoxystrobin	0.005	< 0.100		0.401	0.400	100.3	60.0	120	
Bifenazate	0.000	< 0.100		0.418	0.400	104.4	60.0	120	
Bifenthrin	0.000	< 0.100		0.396	0.400	99.0	50.0	150	
Boscalid	0.000	< 0.200		0.745	0.800	93.1	60.0	120	
Carbaryl	0.000	< 0.100		0.400	0.400	100.0	60.0	120	
Carbofuran	0.000	< 0.100		0.414	0.400	103.4	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.399	0.400	99.7	60.0	120	
Chlorfenapyr	0.000	< 0.500		2.191	2.000	109.6	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.401	0.400	100.3	60.0	120	
Clofentezine	0.000	< 0.100		0.367	0.400	91.6	60.0	120	
Cyfluthrin	0.000	< 0.500		1.965	2.000	98.3	50.0	150	
Cypermethrin	0.064	< 0.500		1.967	2.000	98.4	50.0	150	
Daminozide	0.000	< 0.500		0.691	2.000	***34.5***	60.0	120	**Q6**
Diazinon	0.000	< 0.100		0.421	0.400	105.2	60.0	120	
Dichlorvos	0.000	< 0.500		1.977	2.000	98.9	60.0	120	
Dimethoate	0.000	< 0.100		0.404	0.400	101.0	60.0	120	
Ethoprophos	0.000	< 0.100		0.404	0.400	101.0	60.0	120	
Etofenprox	0.000	< 0.200		0.814	0.800	101.7	50.0	150	
Etoxazole	0.000	< 0.100		0.411	0.400	102.9	60.0	120	
Fenoxycarb	0.000	< 0.100		0.392	0.400	97.9	60.0	120	
Fenpyroximate	0.000	< 0.200		0.827	0.800	103.3	60.0	120	
Fipronil	0.000	< 0.200		0.825	0.800	103.1	60.0	120	
Flonicamid	0.000	< 0.250		1.076	1.000	107.6	60.0	120	
Fludioxonil	0.000	< 0.200		0.788	0.800	98.5	50.0	150	
Hexythiazox	0.000	< 0.250		0.985	1.000	98.5	60.0	120	
Imazalil	0.000	< 0.100		0.394	0.400	98.5	60.0	120	
Imidacloprid	0.000	< 0.200		0.842	0.800	105.2	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.777	0.800	97.2	60.0	120	
Malathion	0.000	< 0.100		0.398	0.400	99.5	60.0	120	
Metalaxyl	0.000	< 0.100		0.396	0.400	99.1	60.0	120	
Methiocarb	0.000	< 0.100		0.396	0.400	99.0	60.0	120	
Methomyl	0.000	< 0.200		0.857	0.800	107.2	60.0	120	
MGK-264	0.000	< 0.100		0.400	0.400	99.9	50.0	150	
Myclobutanil	0.000	< 0.100		0.400	0.400	100.0	60.0	120	
Naled	0.000	< 0.250		0.970	1.000	97.0	50.0	150	
Oxamyl	0.000	< 0.500		2.091	2.000	104.6	60.0	120	
Paclobutrazole	0.000	< 0.200		0.812	0.800	101.5	60.0	120	
Parathion-Methyl	0.000	< 0.100		0.371	0.400	92.7	50.0	150	
Permethrin	0.004	< 0.100		0.393	0.400	98.2	50.0	150	
Phosmet	0.000	< 0.100		0.393	0.400	98.3	50.0	150	
Piperonyl butoxide	0.000	< 0.500		1.982	2.000	99.1	60.0	120	
Prallethrin	0.000	< 0.100		0.390	0.400	97.5	60.0	120	
Propiconazole	0.000	< 0.200		0.807	0.800	100.9	60.0	120	
Propoxur	0.000	< 0.100		0.405	0.400	101.2	60.0	120	
Pyrethrin (Summe)	0.001	< 0.100		0.496	0.488	101.7	60.0	120	
Pyridaben	0.000	< 0.100		0.398	0.400	99.6	50.0	150	
Spinosad	0.000	< 0.100		0.398	0.388	102.5	50.0	150	
Spiromesifen	0.000	< 0.100		0.400	0.400	99.9	60.0	120	
Spirotetramat	0.000	< 0.100		0.391	0.400	97.8	60.0	120	
Spiroxamine	0.000	< 0.200		0.801	0.800	100.2	60.0	120	
Tebuconazole	0.000	< 0.200		0.801	0.800	100.1	60.0	120	
Thiacloprid	0.000	< 0.100		0.406	0.400	101.4	60.0	120	
Thiamethoxam	0.000	< 0.100		0.421	0.400	105.2	60.0	120	
Trifloxystrobin	0.000	< 0.100		0.399	0.400	99.6	60.0	120	

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 — **Units:** mg/Kg — **Batch ID:** 2306747

Matrix Spike/Matrix Spike Duplicate Recoveries — **Sample ID:** 23-004564-0001

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.656	0.697	1.000	5.9%	< 30	65.6%	69.7%	50 - 150	
Acephate	0.002	0.753	0.711	0.800	5.8%	< 30	93.8%	88.6%	50 - 150	
Acequinocyl	0.000	1.474	1.601	4.000	8.2%	< 30	36.9%	40.0%	50 - 150	Q
Acetamiprid	0.000	0.362	0.353	0.400	2.5%	< 30	90.6%	88.4%	50 - 150	
Aldicarb	0.000	0.774	0.729	0.800	6.0%	< 30	96.7%	91.1%	50 - 150	
Azoxystrobin	0.000	0.311	0.301	0.400	3.6%	< 30	77.9%	75.1%	50 - 150	
Bifenazate	0.000	0.304	0.292	0.400	4.0%	< 30	76.0%	72.9%	50 - 150	
Bifenthrin	0.000	0.169	0.172	0.400	2.2%	< 30	42.1%	43.1%	50 - 150	Q
Boscalid	0.000	0.577	0.574	0.800	0.6%	< 30	72.2%	71.7%	50 - 150	
Carbaryl	0.000	0.294	0.280	0.400	4.8%	< 30	73.6%	70.1%	50 - 150	
Carbofuran	0.000	0.333	0.319	0.400	4.3%	< 30	83.1%	79.7%	50 - 150	
Chlorantraniliprole	0.000	0.365	0.343	0.400	6.3%	< 30	91.3%	85.8%	50 - 150	
Chlorfenapyr	0.000	1.522	1.697	2.000	10.9%	< 30	76.1%	84.9%	50 - 150	
Chlorpyrifos	0.000	0.396	0.384	0.400	2.9%	< 30	98.9%	96.1%	50 - 150	
Clofentezine	0.000	0.266	0.283	0.400	6.2%	< 30	66.4%	70.6%	50 - 150	
Cyfluthrin	0.000	0.734	0.782	2.000	6.4%	< 30	36.7%	39.1%	30 - 150	
Cypermethrin	0.000	1.462	1.526	2.000	4.2%	< 30	73.1%	76.3%	50 - 150	
Daminozide	0.000	0.682	0.648	2.000	5.1%	< 30	34.1%	32.4%	30 - 150	
Diazinon	0.000	0.224	0.230	0.400	2.7%	< 30	56.0%	57.6%	50 - 150	
Dichlorvos	0.000	1.654	1.526	2.000	8.1%	< 30	82.7%	76.3%	50 - 150	
Dimethoate	0.000	0.371	0.349	0.400	6.0%	< 30	92.7%	87.3%	50 - 150	
Ethoprophos	0.000	0.255	0.266	0.400	4.3%	< 30	63.8%	66.6%	50 - 150	
Etofenprox	0.000	0.408	0.422	0.800	3.3%	< 30	51.0%	52.8%	50 - 150	
Etoxazole	0.000	0.285	0.289	0.400	1.3%	< 30	71.4%	72.3%	50 - 150	
Fenoxycarb	0.000	0.286	0.294	0.400	2.6%	< 30	71.6%	73.5%	50 - 150	
Fenpyroximate	0.000	0.274	0.273	0.800	0.7%	< 30	34.3%	34.1%	50 - 150	Q
Fipronil	0.000	0.513	0.480	0.800	6.6%	< 30	64.2%	60.0%	50 - 150	
Flonicamid	0.000	0.995	0.940	1.000	5.7%	< 30	99.5%	94.0%	50 - 150	
Fludioxonil	0.000	1.021	1.039	0.800	1.8%	< 30	127.6%	129.9%	50 - 150	
Hexythiazox	0.000	0.778	0.804	1.000	3.2%	< 30	77.8%	80.4%	50 - 150	
Imazalil	0.005	0.332	0.347	0.400	4.3%	< 30	81.8%	85.5%	50 - 150	
Imidacloprid	0.000	0.793	0.779	0.800	1.8%	< 30	99.1%	97.3%	50 - 150	
Kresoxim-methyl	0.000	0.565	0.595	0.800	5.2%	< 30	70.6%	74.4%	50 - 150	
Malathion	0.016	0.269	0.286	0.400	6.7%	< 30	63.2%	67.6%	50 - 150	
Metalaxyl	0.003	0.322	0.324	0.400	0.7%	< 30	79.9%	80.4%	50 - 150	
Methiocarb	0.000	0.303	0.293	0.400	3.1%	< 30	75.7%	73.3%	50 - 150	
Methomyl	0.000	0.784	0.750	0.800	4.5%	< 30	98.1%	93.8%	50 - 150	
MGK-264	0.000	0.205	0.221	0.400	7.9%	< 30	51.2%	55.4%	50 - 150	
Myclobutanil	0.006	0.318	0.321	0.400	0.8%	< 30	78.0%	78.6%	50 - 150	
Naled	0.000	0.759	0.708	1.000	7.0%	< 30	75.9%	70.8%	50 - 150	
Oxamyl	0.000	1.900	1.832	2.000	3.6%	< 30	95.0%	91.6%	50 - 150	
Paclobutrazole	0.000	0.582	0.577	0.800	1.0%	< 30	72.8%	72.1%	50 - 150	
Parathion-Methyl	0.000	0.193	0.194	0.400	1.0%	< 30	48.1%	48.6%	30 - 150	
Permethrin	0.005	0.202	0.209	0.400	3.8%	< 30	49.1%	51.0%	50 - 150	Q
Phosmet	0.000	0.303	0.303	0.400	0.1%	< 30	75.8%	75.7%	50 - 150	
Piperonyl butoxide	0.000	1.413	1.536	2.000	8.4%	< 30	70.7%	76.8%	50 - 150	
Prallethrin	0.000	0.242	0.259	0.400	7.1%	< 30	60.4%	64.8%	50 - 150	
Propiconazole	0.000	0.642	0.651	0.800	1.4%	< 30	80.3%	81.4%	50 - 150	
Propoxur	0.000	0.344	0.327	0.400	5.0%	< 30	86.1%	81.8%	50 - 150	
Pyrethrin (Summe)	0.012	0.268	0.296	0.488	10.6%	< 30	52.5%	58.4%	50 - 150	
Pyridaben	0.000	0.272	0.289	0.400	5.8%	< 30	68.1%	72.1%	50 - 150	
Spinosad	0.000	0.273	0.274	0.388	0.3%	< 30	70.4%	70.6%	50 - 150	
Spiromesifen	0.000	0.317	0.320	0.400	1.1%	< 30	79.2%	80.0%	50 - 150	
Spirotetramat	0.000	0.487	0.481	0.400	1.3%	< 30	121.7%	120.2%	50 - 150	
Spiroxamine	0.000	0.656	0.685	0.800	4.3%	< 30	82.0%	85.7%	50 - 150	
Tebuconazole	0.000	0.583	0.622	0.800	6.4%	< 30	72.9%	77.7%	50 - 150	
Thiacloprid	0.000	0.371	0.349	0.400	6.3%	< 30	92.8%	87.2%	50 - 150	
Thiamethoxam	0.000	0.366	0.359	0.400	2.1%	< 30	91.6%	89.7%	50 - 150	
Trifloxystrobin	0.000	0.278	0.280	0.400	0.8%	< 30	69.4%	70.0%	50 - 150	

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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2306790

	Method Blank					Laboratory Control Sample								
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**		
Propane	ND	<	200		296	584	µg/g	50.7	60	-	120	Q6		
Isobutane	ND	<	200		396	767	µg/g	51.6	60	-	120	Q6		
Butane	ND	<	200		427	782	µg/g	54.6	60	-	120	Q6		
2,2-Dimethylpropane	ND	<	200		538	939	µg/g	57.3	60	-	120	Q6		
Methanol	ND	<	200		1540	1610	µg/g	95.7	60	-	120			
Ethylene Oxide	ND	<	30		32.7	57.1	µg/g	57.3	60	-	120	Q6		
2-Methylbutane	ND	<	200		1520	1600	µg/g	95.0	60	-	120			
Pentane	ND	<	200		1560	1610	µg/g	96.9	60	-	120			
Ethanol	ND	<	200		1540	1600	µg/g	96.3	70	-	130			
Ethyl Ether	ND	<	200		1520	1610	µg/g	94.4	60	-	120			
2,2-Dimethylbutane	ND	<	30		158	173	µg/g	91.3	60	-	120			
Acetone	ND	<	200		1510	1620	µg/g	93.2	60	-	120			
2-Propanol	ND	<	200		1510	1600	µg/g	94.4	60	-	120			
Ethyl Formate	ND	<	500		1640	1610	µg/g	101.9	70	-	130			
Acetonitrile	ND	<	100		452	488	µg/g	92.6	60	-	120			
Methyl Acetate	ND	<	500		1480	1610	µg/g	91.9	70	-	130			
2,3-Dimethylbutane	ND	<	30		146	165	µg/g	88.5	60	-	120			
Dichloromethane	ND	<	60		482	487	µg/g	99.0	60	-	120			
2-Methylpentane	ND	<	30		150	160	µg/g	93.8	60	-	120			
MTBE	ND	<	500		1550	1600	µg/g	96.9	70	-	130			
3-Methylpentane	ND	<	30		150	161	µg/g	93.2	60	-	120			
Hexane	ND	<	30		149	162	µg/g	92.0	60	-	120			
1-Propanol	ND	<	500		1560	1620	µg/g	96.3	70	-	130			
Methylethylketone	ND	<	500		1510	1610	µg/g	93.8	70	-	130			
Ethyl acetate	ND	<	200		1470	1600	µg/g	91.9	60	-	120			
2-Butanol	ND	<	200		1500	1610	µg/g	93.2	60	-	120			
Tetrahydrofuran	ND	<	100		451	483	µg/g	93.4	60	-	120			
Cyclohexane	ND	<	200		1490	1610	µg/g	92.5	60	-	120			
2-methyl-1-propanol	ND	<	500		1500	1630	µg/g	92.0	70	-	130			
Benzene	ND	<	1		4.82	4.98	µg/g	96.8	60	-	120			
Isopropyl Acetate	ND	<	200		1510	1610	µg/g	93.8	60	-	120			
Heptane	ND	<	200		1500	1620	µg/g	92.6	60	-	120			
1-Butanol	ND	<	500		1530	1600	µg/g	95.6	70	-	130			
Propyl Acetate	ND	<	500		1450	1620	µg/g	89.5	70	-	130			
1,4-Dioxane	ND	<	100		429	494	µg/g	86.8	60	-	120			
2-Ethoxyethanol	ND	<	30		164	165	µg/g	99.4	60	-	120			
Methylisobutylketone	ND	<	500		1510	1610	µg/g	93.8	70	-	130			
3-Methyl-1-butanol	ND	<	500		1540	1610	µg/g	95.7	70	-	130			
Ethylene Glycol	ND	<	200		422	486	µg/g	86.8	60	-	120			
Toluene	ND	<	100		437	513	µg/g	85.2	60	-	120			
Isobutyl Acetate	ND	<	500		1470	1600	µg/g	91.9	70	-	130			
1-Pentanol	ND	<	500		1500	1610	µg/g	93.2	70	-	130			
Butyl Acetate	ND	<	500		1470	1610	µg/g	91.3	70	-	130			
Ethylbenzene	ND	<	200		835	967	µg/g	86.3	60	-	120			
m,p-Xylene	ND	<	200		850	994	µg/g	85.5	60	-	120			
o-Xylene	ND	<	200		852	992	µg/g	85.9	60	-	120			
Cumene	ND	<	30		141	171	µg/g	82.5	60	-	120			
Anisole	ND	<	500		1300	1610	µg/g	80.7	70	-	130			
DMSO	ND	<	500		1350	1610	µg/g	83.9	70	-	130			
1,2-dimethoxyethane	ND	<	50		162	172	µg/g	94.2	70	-	130			
Triethylamine	ND	<	500		1520	1620	µg/g	93.8	70	-	130			
N,N-dimethylformamide	ND	<	150		442	499	µg/g	88.6	70	-	130			
N,N-dimethylacetamide	ND	<	150		453	491	µg/g	92.3	70	-	130			
Pyridine	ND	<	50		157	171	µg/g	91.8	70	-	130			
Sulfolane	ND	<	50		138	160	µg/g	86.3	70	-	130			
1,2-Dichloroethane	ND	<	1		0.864	1	µg/g	86.4	70	-	130			
Chloroform	ND	<	1		0.989	1	µg/g	98.9	70	-	130			
Trichloroethylene	ND	<	1		1.01	1	µg/g	101.0	70	-	130			
1,1-Dichloroethane	ND	<	1		1.01	1	µg/g	101.0	70	-	130			

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QC - Sample Duplicate **Sample ID: 23-004824-0001**

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	863	839	200	µg/g	2.8	< 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

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	23-004824/D007.R000
Report Date:	04/28/2023
ORELAP#:	OR100028
Purchase Order:	
Received:	04/20/23 14:34

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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.