

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU	BATCH #	LOQ: Limit Of Quantitation	
PRODUCT NAME	SERVING SIZE	LOD: Limit Of Detection	
LABORATORY :	OREGON ACCREDITATION: OR100028	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)	mg/serving	mg/g	%
Total THC (d9-THC, THCA)	mg/serving	mg/g	%
Cannabigerol (CBG)	mg/serving	mg/g	%
Cannabinol (CBN)	mg/serving	mg/g	%
Cannabichromene (CBC)	mg/serving	mg/g	%
Tetrahydrocannabinolic Acid (THCA)	mg/serving	mg/g	%
Delta-9-THC (d9-THC)	mg/serving	mg/g	%
Delta-8-THC (d8-THC)	mg/serving	mg/g	%
HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	µg/serving	µg/g	10 µg/day ^[1]
Cadmium	µg/serving	µg/g	4.1 µg/day ^[1]
Lead	µg/serving	µg/g	6 µg/day ^[1]
Mercury	µg/serving	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*	µg/g	50,000 mg/day	
Heptane	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.



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



Report Number: 23-005162/D006.R000
Report Date: 05/10/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/28/23 11:44

Customer: Etz Hayim Holdings
Product identity: CYCL-SLZ.D9.CH5.6Pk-FA08Z
Client/Metric ID: .
Laboratory ID: 23-005162-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBD per 1g	0.0392		mg/1g		CBD-Total per Serving Size 0.0392 mg/1g
Δ8-THC per 1g	0.00452		mg/1g		
Δ9-THC per 1g	0.0195		mg/1g		THC-Total per Serving Size 0.0195 mg/1g
(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: 04/28/23 11:44

Customer: Etz Hayim Holdings
 16427 NE Airport Way
 PORTLAND 97230
 United States of America (USA)
Product identity: CYCL-SLZ.D9.CH5.6Pk-FA08Z
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-005162-0001
Evidence of Cooling: No
Temp: 22.2
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: 2307010	Analyze: 5/3/23 5:28:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	< LOQ		mg/1g	0.000971	
CBC-A per 1g	< LOQ		mg/1g	0.000971	
CBC-Total per 1g	< LOQ		mg/1g	0.00182	
CBD per 1g	0.0392		mg/1g	0.000971	
CBD-A per 1g	< LOQ		mg/1g	0.000971	
CBD-Total per 1g	0.0392		mg/1g	0.00182	
CBDV per 1g	< LOQ		mg/1g	0.000971	
CBDV-A per 1g	< LOQ		mg/1g	0.000971	
CBDV-Total per 1g	< LOQ		mg/1g	0.00181	
CBE per 1g	< LOQ		mg/1g	0.000971	
CBG per 1g	< LOQ		mg/1g	0.000971	
CBG-A per 1g	< LOQ		mg/1g	0.000971	
CBG-Total per 1g	< LOQ		mg/1g	0.00181	
CBL per 1g	< LOQ		mg/1g	0.000971	
CBL-A per 1g	< LOQ		mg/1g	0.000971	
CBL-Total per 1g	< LOQ		mg/1g	0.00182	
CBN per 1g	< LOQ		mg/1g	0.000971	
CBT per 1g	< LOQ		mg/1g	0.000971	
Δ8-THCV per 1g	< LOQ		mg/1g	0.000971	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.000971	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.000971	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.00194	
Δ8-THC per 1g	0.00452		mg/1g	0.000971	
Δ9-THC per 1g	0.0195		mg/1g	0.000971	
exo-THC per 1g	< LOQ		mg/1g	0.000971	
THC-A per 1g	< LOQ		mg/1g	0.000971	
THC-Total per 1g	0.0195		mg/1g	0.00182	
THCV per 1g	< LOQ		mg/1g	0.000971	
THCV-A per 1g	< LOQ		mg/1g	0.000971	
THCV-Total per 1g	< LOQ		mg/1g	0.00182	



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Received: 04/28/23 11:44

Potency per 1g	Method: J AOAC 2015 V98-6 (mod) ^P	Units mg/se	Batch: 2307010	Analyze: 5/3/23 5:28:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 1g	0.0632		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2306850	05/01/23 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2306850	05/01/23 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2306851	05/02/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2306851	05/02/23 AOAC 2014.05 (RAPID) ^P		

Solvents	Method: Residual Solvents by GC/MS ^P	Units µg/g	Batch 2307166	Analyze 05/10/23 11:30 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		Ethanol	< LOQ		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)^b Units mg/kg Batch 2306913 Analyze 05/02/23 10:53 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		Acephate [‡]	< LOQ	0.40	0.200	pass	
Acequinocyl [‡]	< LOQ	2.0	1.00	pass		Acetamidprid [‡]	< 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		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		Oxamy [‡]	< LOQ	1.0	0.500	pass	
Paclobotrazole [‡]	< 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	0.00366	2306940	05/02/23 AOAC 2013.06 (mod.) ^b	pass	
Cadmium [‡]	< LOQ	0.200	mg/kg	0.00366	2306940	05/02/23 AOAC 2013.06 (mod.) ^b	pass	
Lead [‡]	< LOQ	0.500	mg/kg	0.00366	2306940	05/02/23 AOAC 2013.06 (mod.) ^b	pass	
Mercury [‡]	< LOQ	0.100	mg/kg	0.00183	2306940	05/02/23 AOAC 2013.06 (mod.) ^b	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.

Ⓐ = 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



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 Portland, OR 97230
 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: 2306913			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.940	1.000	94.0	50.0 150	
Accephate	0.004	< 0.200		0.709	0.800	88.6	60.0 120	
Acetamiprid	0.000	< 0.100		3.377	4.000	84.4	40.0 160	
Aldicarb	0.000	< 0.200		0.385	0.400	96.3	60.0 120	
Azoxystrobin	0.000	< 0.100		0.766	0.800	95.7	60.0 120	
Bifenazate	0.000	< 0.100		0.392	0.400	98.0	60.0 120	
Bifenthrin	0.000	< 0.100		0.374	0.400	93.4	60.0 120	
Boscalid	0.000	< 0.200		0.360	0.400	90.0	50.0 150	
Carbaryl	0.000	< 0.100		0.748	0.800	93.5	60.0 120	
Carbofuran	0.000	< 0.100		0.383	0.400	95.8	60.0 120	
Chlorantraniliprole	0.000	< 0.100		0.381	0.400	95.3	60.0 120	
Chlorfenapyr	0.000	< 0.500		0.402	0.400	100.5	60.0 120	
Chlorpyrifos	0.005	< 0.100		1.775	2.000	88.7	60.0 120	
Clofentezine	0.000	< 0.100		0.372	0.400	93.1	60.0 120	
Cyfluthrin	0.000	< 0.500		0.362	0.400	90.4	60.0 120	
Cypermethrin	0.000	< 0.500		1.826	2.000	91.3	50.0 150	
Daminozide	0.000	< 0.500		1.880	2.000	94.0	50.0 150	
Diazinon	0.000	< 0.100		0.607	2.000	30.4	60.0 120	q6
Dichlorvos	0.000	< 0.500		0.400	0.400	100.1	60.0 120	
Dimethoate	0.000	< 0.100		1.799	2.000	90.0	60.0 120	
Ethoprophos	0.000	< 0.100		0.371	0.400	92.7	60.0 120	
Etofenprox	0.000	< 0.200		0.371	0.400	92.8	60.0 120	
Etoxazole	0.000	< 0.100		0.740	0.800	92.4	50.0 150	
Fenoxycarb	0.000	< 0.100		0.431	0.400	107.9	60.0 120	
Fenpyroximate	0.000	< 0.200		0.387	0.400	96.8	60.0 120	
Fipronil	0.000	< 0.200		0.765	0.800	95.6	60.0 120	
Flonicamid	0.000	< 0.250		0.778	0.800	97.2	60.0 120	
Fludioxonil	0.000	< 0.200		0.962	1.000	96.2	60.0 120	
Hexythiazox	0.000	< 0.250		0.743	0.800	92.9	50.0 150	
Imazalil	0.000	< 0.100		1.010	1.000	101.0	60.0 120	
Imidacloprid	0.000	< 0.200		0.387	0.400	96.9	60.0 120	
Kresoxim-methyl	0.000	< 0.200		0.742	0.800	92.8	60.0 120	
Malathion	0.000	< 0.100		0.757	0.800	94.6	60.0 120	
Metaxyl	0.000	< 0.100		0.364	0.400	91.1	60.0 120	
Methiocarb	0.000	< 0.100		0.371	0.400	92.7	60.0 120	
Methomyl	0.000	< 0.200		0.371	0.400	92.8	60.0 120	
MGK-264	0.002	< 0.100		0.805	0.800	100.6	60.0 120	
Myclobutanil	0.000	< 0.100		0.369	0.400	92.3	50.0 150	
Naled	0.000	< 0.250		0.375	0.400	93.7	60.0 120	
Oxamyl	0.000	< 0.500		0.909	1.000	90.9	50.0 150	
Paclobutrazole	0.000	< 0.200		1.787	2.000	89.3	60.0 120	
Parathion-Methyl	0.008	< 0.100		0.802	0.800	100.2	60.0 120	
Permethrin	0.000	< 0.100		0.361	0.400	90.2	50.0 150	
Phosmet	0.000	< 0.100		0.369	0.400	92.3	50.0 150	
Piperonyl butoxide	0.000	< 0.500		0.386	0.400	96.4	50.0 150	
Prallethrin	0.000	< 0.100		2.136	2.000	106.8	60.0 120	
Propiconazole	0.000	< 0.200		0.380	0.400	95.0	60.0 120	
Propoxur	0.000	< 0.100		0.762	0.800	95.2	60.0 120	
Pyrethrin (Summe)	0.000	< 0.100		0.394	0.400	98.6	60.0 120	
Pyridaben	0.000	< 0.100		0.460	0.488	94.3	60.0 120	
Spinosad	0.000	< 0.100		0.386	0.400	96.6	50.0 150	
Spiromesifen	0.000	< 0.100		0.381	0.388	98.2	50.0 150	
Spirotetramat	0.000	< 0.100		0.367	0.400	91.7	60.0 120	
Spiroxamine	0.000	< 0.200		0.383	0.400	95.7	60.0 120	
Tebuconazole	0.000	< 0.200		0.804	0.800	100.5	60.0 120	
Thiacloprid	0.000	< 0.100		0.786	0.800	98.3	60.0 120	
Thiamethoxam	0.000	< 0.100		0.388	0.400	96.9	60.0 120	
Trifloxystrobin	0.000	< 0.100		0.392	0.400	98.0	60.0 120	
				0.388	0.400	97.0	60.0 120	



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Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg				Batch ID: 2306913				
Matrix Spike/Matrix Spike Duplicate Recoveries					Sample ID: 23-005023-0005					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.949	0.919	1.000	3.2%	< 30	94.9%	91.9%	50 - 150	
Acephate	0.002	0.755	0.763	0.800	1.1%	< 30	94.2%	95.2%	50 - 150	
Acequinocyl	0.000	3.610	3.252	4.000	10.4%	< 30	90.2%	81.3%	50 - 150	
Acetamiprid	0.000	0.394	0.394	0.400	0.1%	< 30	98.6%	98.5%	50 - 150	
Aldicarb	0.000	0.766	0.754	0.800	1.6%	< 30	95.7%	94.2%	50 - 150	
Azoxystrobin	0.000	0.405	0.385	0.400	5.2%	< 30	101.3%	96.2%	50 - 150	
Bifenazate	0.000	0.383	0.376	0.400	1.8%	< 30	95.7%	94.0%	50 - 150	
Bifenthrin	0.000	0.375	0.346	0.400	8.3%	< 30	93.9%	86.4%	50 - 150	
Boscalid	0.000	0.764	0.729	0.800	4.8%	< 30	95.5%	91.1%	50 - 150	
Carbaryl	0.000	0.391	0.386	0.400	1.3%	< 30	97.8%	96.5%	50 - 150	
Carbofuran	0.000	0.392	0.385	0.400	1.8%	< 30	97.9%	96.2%	50 - 150	
Chlorantraniliprole	0.000	0.397	0.384	0.400	3.3%	< 30	99.4%	96.1%	50 - 150	
Chlorfenapyr	0.000	1.805	1.865	2.000	3.3%	< 30	90.2%	93.2%	50 - 150	
Chlorpyrifos	0.000	0.370	0.368	0.400	0.5%	< 30	92.5%	92.0%	50 - 150	
Clofentezine	0.000	0.348	0.347	0.400	0.2%	< 30	87.0%	86.8%	50 - 150	
Cyfluthrin	0.000	2.007	2.010	2.000	0.1%	< 30	100.4%	100.5%	30 - 150	
Cypermethrin	0.000	2.022	2.081	2.000	2.9%	< 30	101.1%	104.0%	50 - 150	
Daminozide	0.000	0.606	0.616	2.000	1.7%	< 30	30.3%	30.8%	30 - 150	
Diazinon	0.000	0.398	0.401	0.400	0.5%	< 30	99.6%	100.2%	50 - 150	
Dichlorvos	0.000	1.838	1.833	2.000	0.3%	< 30	91.9%	91.7%	50 - 150	
Dimethoate	0.000	0.380	0.384	0.400	0.9%	< 30	95.1%	96.0%	50 - 150	
Ethoprophos	0.000	0.389	0.386	0.400	0.7%	< 30	97.2%	96.5%	50 - 150	
Etofenprox	0.000	0.762	0.754	0.800	1.0%	< 30	95.2%	94.3%	50 - 150	
Etoxazole	0.000	0.429	0.417	0.400	2.8%	< 30	107.3%	104.3%	50 - 150	
Fenoxycarb	0.000	0.392	0.389	0.400	0.6%	< 30	97.9%	97.3%	50 - 150	
Fenpyroximate	0.000	0.782	0.780	0.800	0.3%	< 30	97.8%	97.5%	50 - 150	
Fipronil	0.000	0.779	0.786	0.800	0.8%	< 30	97.4%	98.2%	50 - 150	
Fonicamid	0.000	0.961	1.001	1.000	4.2%	< 30	96.1%	100.1%	50 - 150	
Fludioxonil	0.000	0.725	0.724	0.800	0.2%	< 30	90.7%	90.5%	50 - 150	
Hexythiazox	0.000	0.895	0.931	1.000	4.0%	< 30	89.5%	93.1%	50 - 150	
Imazalil	0.000	0.393	0.385	0.400	2.1%	< 30	98.2%	96.2%	50 - 150	
Imidacloprid	0.000	0.740	0.748	0.800	1.1%	< 30	92.5%	93.5%	50 - 150	
Kresoxim-methyl	0.000	0.788	0.758	0.800	3.9%	< 30	98.5%	94.7%	50 - 150	
Malathion	0.000	0.379	0.391	0.400	3.1%	< 30	94.8%	97.8%	50 - 150	
Metalaxyl	0.000	0.397	0.398	0.400	0.3%	< 30	99.1%	99.5%	50 - 150	
Methiocarb	0.000	0.375	0.390	0.400	3.9%	< 30	93.7%	97.5%	50 - 150	
Methomyl	0.000	0.798	0.799	0.800	0.1%	< 30	99.7%	99.9%	50 - 150	
MGK-264	0.002	0.371	0.381	0.400	2.7%	< 30	92.1%	94.6%	50 - 150	
Myclobutanil	0.000	0.384	0.370	0.400	3.8%	< 30	96.1%	92.5%	50 - 150	
Naled	0.000	0.964	0.963	1.000	0.1%	< 30	96.4%	96.3%	50 - 150	
Oxamyl	0.000	1.929	1.968	2.000	2.0%	< 30	96.5%	98.4%	50 - 150	
Paclobutrazole	0.000	0.831	0.817	0.800	1.6%	< 30	103.8%	102.1%	50 - 150	
Parathion-Methyl	0.000	0.357	0.391	0.400	9.2%	< 30	89.2%	97.8%	30 - 150	
Permethrin	0.000	0.368	0.361	0.400	1.9%	< 30	91.9%	90.2%	50 - 150	
Phosmet	0.000	0.400	0.389	0.400	2.8%	< 30	100.0%	97.2%	50 - 150	
Piperonyl butoxide	0.000	2.164	2.193	2.000	1.3%	< 30	108.2%	109.6%	50 - 150	
Prallethrin	0.000	0.357	0.364	0.400	2.1%	< 30	89.2%	91.1%	50 - 150	
Propiconazole	0.000	0.783	0.768	0.800	1.9%	< 30	97.9%	96.0%	50 - 150	
Propoxur	0.000	0.397	0.386	0.400	3.0%	< 30	99.4%	96.4%	50 - 150	
Pyrethrin (Summe)	0.000	0.466	0.466	0.488	0.0%	< 30	95.5%	95.5%	50 - 150	
Pyridaben	0.000	0.419	0.410	0.400	2.2%	< 30	104.7%	102.4%	50 - 150	
Spinosad	0.000	0.376	0.387	0.388	3.0%	< 30	96.8%	99.8%	50 - 150	
Spiromesfen	0.000	0.378	0.384	0.400	1.5%	< 30	94.5%	95.9%	50 - 150	
Spirotetramat	0.000	0.373	0.378	0.400	1.4%	< 30	93.2%	94.5%	50 - 150	
Spiroxamine	0.000	0.812	0.804	0.800	1.1%	< 30	101.5%	100.4%	50 - 150	
Tebuconazole	0.000	0.774	0.783	0.800	1.2%	< 30	96.8%	97.9%	50 - 150	
Thiacloprid	0.000	0.394	0.388	0.400	1.5%	< 30	98.4%	97.0%	50 - 150	
Thiamethoxam	0.000	0.392	0.412	0.400	5.0%	< 30	97.9%	103.0%	50 - 150	
Trifloxystrobin	0.000	0.390	0.397	0.400	1.5%	< 30	97.6%	99.1%	50 - 150	



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Report Number: 23-005162/D006.R000
Report Date: 05/10/2023
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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: 2307010

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0009	0.001	%	98.9	80.0	- 120	Acceptable	
CBDV	2	0.0009	0.001	%	100	80.0	- 120	Acceptable	
CBE	2	0.0010	0.001	%	101	80.0	- 120	Acceptable	
CBDA	1	0.0009	0.001	%	95.1	90.0	- 110	Acceptable	
CBGA	1	0.0008	0.001	%	95.8	80.0	- 120	Acceptable	
CBG	1	0.0009	0.001	%	96.8	80.0	- 120	Acceptable	
CBD	1	0.0008	0.001	%	95.8	90.0	- 110	Acceptable	
THCV	2	0.0007	0.001	%	104	80.0	- 120	Acceptable	
d8THCV	2	0.0008	0.001	%	99.9	80.0	- 120	Acceptable	
THCVA	2	0.0009	0.001	%	98.2	80.0	- 120	Acceptable	
CBN	1	0.0008	0.001	%	97.1	80.0	- 120	Acceptable	
exo-THC	2	0.0009	0.001	%	98.7	80.0	- 120	Acceptable	
d9THC	1	0.0010	0.001	%	96.4	90.0	- 110	Acceptable	
d8THC	1	0.0010	0.001	%	101	90.0	- 110	Acceptable	
9S-d10THC	1	0.0010	0.001	%	96.9	80.0	- 120	Acceptable	
CBL	2	0.0010	0.001	%	107	80.0	- 120	Acceptable	
9R-d10THC	1	0.0009	0.001	%	96.6	80.0	- 120	Acceptable	
CBC	2	0.0009	0.001	%	101	80.0	- 120	Acceptable	
THCA	1	0.0011	0.001	%	94.5	90.0	- 110	Acceptable	
CBCA	2	0.0009	0.001	%	94.0	80.0	- 120	Acceptable	
CBLA	2	0.0009	0.001	%	97.5	80.0	- 120	Acceptable	
d9THCP	2	0.0010	0.001	%	101	80.0	- 120	Acceptable	
CBT	2	0.0010	0.001	%	101	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	
d9THCP	<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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Report Number: 23-005162/D006.R000
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Received: 04/28/23 11:44

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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2307010						
Sample Duplicate		Sample ID: 23-005148-0001						
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	
CBD	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG	0.0002	0.0002	0.0001	%	0.0240	< 20	Acceptable	
CBD	0.0070	0.0070	0.0001	%	0.206	< 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	
d9THCP	<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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 Portland, OR 97230
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Revision: 2 Document ID: 7087
 Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2307166					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		532	584	µg/g	91.1	60 - 120	
Isobutane	ND	< 200		680	767	µg/g	88.7	60 - 120	
Butane	ND	< 200		678	782	µg/g	86.7	60 - 120	
2,2-Dimethylpropane	ND	< 200		879	939	µg/g	93.6	60 - 120	
Methanol	ND	< 200		1350	1610	µg/g	83.9	60 - 120	
Ethylene Oxide	ND	< 30		53.1	57.1	µg/g	93.0	60 - 120	
2-Methylbutane	ND	< 200		1270	1600	µg/g	79.4	60 - 120	
Pentane	ND	< 200		1280	1610	µg/g	79.5	60 - 120	
Ethanol	ND	< 200		1270	1600	µg/g	79.4	70 - 130	
Ethyl Ether	ND	< 200		1290	1610	µg/g	80.1	60 - 120	
2,2-Dimethylbutane	ND	< 30		138	173	µg/g	79.8	60 - 120	
Acetone	ND	< 200		1280	1620	µg/g	79.0	60 - 120	
2-Propanol	ND	< 200		1260	1600	µg/g	78.8	60 - 120	
Ethyl Formate	ND	< 500		1760	1610	µg/g	109.3	70 - 130	
Acetonitrile	ND	< 100		381	488	µg/g	78.1	60 - 120	
Methyl Acetate	ND	< 500		1400	1610	µg/g	87.0	70 - 130	
2,3-Dimethylbutane	ND	< 30		134	165	µg/g	81.2	60 - 120	
Dichloromethane	ND	< 60		387	487	µg/g	79.5	60 - 120	
2-Methylpentane	ND	< 30		122	160	µg/g	76.3	60 - 120	
MTBE	ND	< 500		1450	1600	µg/g	90.6	70 - 130	
3-Methylpentane	ND	< 30		128	161	µg/g	79.5	60 - 120	
Hexane	ND	< 30		129	162	µg/g	79.6	60 - 120	
1-Propanol	ND	< 500		1470	1620	µg/g	90.7	70 - 130	
Methylethylketone	ND	< 500		1450	1610	µg/g	90.1	70 - 130	
Ethyl acetate	ND	< 200		1240	1600	µg/g	77.5	60 - 120	
2-Butanol	ND	< 200		1230	1610	µg/g	76.4	60 - 120	
Tetrahydrofuran	ND	< 100		377	483	µg/g	78.1	60 - 120	
Cyclohexane	ND	< 200		1270	1610	µg/g	78.9	60 - 120	
2-methyl-1-propanol	ND	< 500		1450	1630	µg/g	89.0	70 - 130	
Benzene	ND	< 1		3.83	4.98	µg/g	76.9	60 - 120	
Isopropyl Acetate	ND	< 200		1230	1610	µg/g	76.4	60 - 120	
Heptane	ND	< 200		1260	1620	µg/g	77.8	60 - 120	
1-Butanol	ND	< 500		1450	1600	µg/g	90.6	70 - 130	
Propyl Acetate	ND	< 500		1450	1620	µg/g	89.5	70 - 130	
1,4-Dioxane	ND	< 100		372	494	µg/g	75.3	60 - 120	
2-Ethoxyethanol	ND	< 30		126	165	µg/g	76.4	60 - 120	
Methylisobutylketone	ND	< 500		1400	1610	µg/g	87.0	70 - 130	
3-Methyl-1-butanol	ND	< 500		1390	1610	µg/g	86.3	70 - 130	
Ethylene Glycol	ND	< 200		254	486	µg/g	52.3	60 - 120	Q6
Toluene	ND	< 100		365	513	µg/g	71.2	60 - 120	
Isobutyl Acetate	ND	< 500		1400	1600	µg/g	87.5	70 - 130	
1-Pentanol	ND	< 500		1380	1610	µg/g	85.7	70 - 130	
Butyl Acetate	ND	< 500		1400	1610	µg/g	87.0	70 - 130	
Ethylbenzene	ND	< 200		715	967	µg/g	73.9	60 - 120	
m,p-Xylene	ND	< 200		769	994	µg/g	77.4	60 - 120	
o-Xylene	ND	< 200		715	992	µg/g	72.1	60 - 120	
Cumene	ND	< 30		127	171	µg/g	74.3	60 - 120	
Anisole	ND	< 500		1340	1610	µg/g	83.2	70 - 130	
DMSO	ND	< 500		794	1610	µg/g	49.3	70 - 130	Q6
1,2-dimethoxyethane	ND	< 50		157	172	µg/g	91.3	70 - 130	
Triethylamine	ND	< 500		1270	1620	µg/g	78.4	70 - 130	
N,N-dimethylformamide	ND	< 150		389	499	µg/g	78.0	70 - 130	
N,N-dimethylacetamide	ND	< 150		311	491	µg/g	63.3	70 - 130	Q6
Pyridine	ND	< 50		141	171	µg/g	82.5	70 - 130	
Sulfolane	ND	< 50		104	160	µg/g	65.0	70 - 130	Q6
1,2-Dichloroethane	ND	< 1		1.04	1	µg/g	104.0	70 - 130	
Chloroform	ND	< 1		1	1	µg/g	100.0	70 - 130	
Trichloroethylene	ND	< 1		0.976	1	µg/g	97.6	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: 23-005392-0001						
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	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methyl ethyl ketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
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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Report Number: 23-005162/D006.R000
Report Date: 05/10/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/28/23 11:44





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.