



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



**Report Number:** 23-010685/D002.R000  
**Report Date:** 09/15/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/08/23 10:49

**Customer:** The Hemp Collect  
**Product identity:** Live Resin Delta-9 Caramel, 40mg  
**Client/Metric ID:** 5001SH-090723  
**Laboratory ID:** 23-010685-0001

### Summary

**Potency:**

Analyte	Result	Limits	Units	Status	
CBD-A	0.00995		%		THC-Total per Serving Size 42.7 mg/16g
CBG	0.00970		%		
CBN	0.00578		%		CBD-Total per Serving Size 1.40 mg/16g
Δ9-THC	0.267		%		(Reported in milligrams per serving)
Analyte per 16g	Result	Limits	Units	Status	
CBD-A per 16g	1.59		mg/16g		
CBG per 16g	1.55		mg/16g		
CBN per 16g	0.925		mg/16g		
Δ9-THC per 16g	42.7		mg/16g		

**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:** The Hemp Collect  
 825 NW 16th Ave  
 Portland Oregon 97209  
 United States of America (USA)

**Product identity:** Live Resin Delta-9 Caramel, 40mg  
**Client/Metric ID:** 5001SH-090723  
**Sample Date:**  
**Laboratory ID:** 23-010685-0001  
**Evidence of Cooling:** No  
**Temp:** 21.3 °C  
**Relinquished by:** Shipping  
**Serving Size #1:** 16 g



### Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>	Units %	Batch: 2310834	Analyze: 9/12/23 1:34:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.00314	
CBC-A	< LOQ		%	0.00314	
CBC-Total	< LOQ		%	0.00590	
CBD	< LOQ		%	0.00314	
CBD-A	0.00995		%	0.00314	
CBD-Total	0.00873		%	0.00590	
CBDV	< LOQ		%	0.00314	
CBDV-A	< LOQ		%	0.00314	
CBDV-Total	< LOQ		%	0.00587	
CBE	< LOQ		%	0.00314	
CBG	0.00970		%	0.00314	
CBG-A	< LOQ		%	0.00314	
CBG-Total	0.00970		%	0.00587	
CBL	< LOQ		%	0.00314	
CBL-A	< LOQ		%	0.00314	
CBL-Total	< LOQ		%	0.00590	
CBN	0.00578		%	0.00314	
CBT	< LOQ		%	0.00314	
Δ8-THCV	< LOQ		%	0.00314	
Δ10-THC-9R	< LOQ		%	0.00314	
Δ10-THC-9S	< LOQ		%	0.00314	
Δ10-THC-Total	< LOQ		%	0.00629	
Δ8-THC	< LOQ		%	0.00314	
Δ9-THC	0.267		%	0.00314	
delta-9-THCP	< LOQ		%	0.00314	
exo-THC	< LOQ		%	0.00314	
THC-A	< LOQ		%	0.00314	
THC-Total	0.267		%	0.00590	
THCV	< LOQ		%	0.00314	
THCV-A	< LOQ		%	0.00314	



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Potency	Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>	Units %	Batch: 2310834	Analyze: 9/12/23 1:34:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total	< LOQ		%	0.00587	
<b>Total Cannabinoids</b>	<b>0.292</b>		%		

Potency per 16g	Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>	Units mg/se	Batch: 2310834	Analyze: 9/12/23 1:34:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 16g	< LOQ		mg/16g	0.503	
CBC-A per 16g	< LOQ		mg/16g	0.503	
CBC-Total per 16g	< LOQ		mg/16g	0.944	
CBD per 16g	< LOQ		mg/16g	0.503	
CBD-A per 16g	1.59		mg/16g	0.503	
CBD-Total per 16g	1.40		mg/16g	0.944	
CBDV per 16g	< LOQ		mg/16g	0.503	
CBDV-A per 16g	< LOQ		mg/16g	0.503	
CBDV-Total per 16g	< LOQ		mg/16g	0.939	
CBE per 16g	< LOQ		mg/16g	0.503	
CBG per 16g	1.55		mg/16g	0.503	
CBG-A per 16g	< LOQ		mg/16g	0.503	
CBG-Total per 16g	1.55		mg/16g	0.939	
CBL per 16g	< LOQ		mg/16g	0.503	
CBL-A per 16g	< LOQ		mg/16g	0.503	
CBL-Total per 16g	< LOQ		mg/16g	0.944	
CBN per 16g	0.925		mg/16g	0.503	
CBT per 16g	< LOQ		mg/16g	0.503	
Δ8-THCV per 16g	< LOQ		mg/16g	0.503	
Δ10-THC-9R per 16g	< LOQ		mg/16g	0.503	
Δ10-THC-9S per 16g	< LOQ		mg/16g	0.503	
Δ10-THC-Total per 16g	< LOQ		mg/16g	1.01	
Δ8-THC per 16g	< LOQ		mg/16g	0.503	
Δ9-THC per 16g	42.7		mg/16g	0.503	
delta-9-THCP per 16g	< LOQ		mg/16g	0.503	
exo-THC per 16g	< LOQ		mg/16g	0.503	
THC-A per 16g	< LOQ		mg/16g	0.503	
THC-Total per 16g	42.7		mg/16g	0.944	
THCV per 16g	< LOQ		mg/16g	0.503	
THCV-A per 16g	< LOQ		mg/16g	0.503	
THCV-Total per 16g	< LOQ		mg/16g	0.945	
<b>Total Cannabinoids per 16g</b>	<b>46.8</b>		mg/16g		



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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2310744	09/11/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Total Coliforms	< LOQ		cfu/g	10	2310744	09/11/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2310745	09/11/23 AOAC 2014.05 (RAPID) <sup>P</sup>		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2310745	09/11/23 AOAC 2014.05 (RAPID) <sup>P</sup>		

**Solvents** Method: Residual Solvents by GC/MS<sup>P</sup> Units µg/g Batch 2310820 Analyze 09/12/23 01:46 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ		100			2-Butanol	< LOQ		200		
2-Ethoxyethanol	< LOQ		30.0			2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ		200		
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		200			Acetonitrile	< LOQ		100		
Benzene	< LOQ		1.00			Butanes (sum)	< LOQ		400		
Cyclohexane	< LOQ		200			Ethyl acetate	< LOQ		200		
Ethyl benzene	< LOQ		200			Ethyl ether	< LOQ		200		
Ethylene glycol	< LOQ		200			Ethylene oxide	< LOQ		20.0		
Hexanes (sum)	< LOQ		150			Isopropyl acetate	< LOQ		200		
Isopropylbenzene (Cumene)	< LOQ		30.0			m,p-Xylene	< LOQ		200		
Methanol	< LOQ		200			Methylene chloride	< LOQ		60.0		
Methylpropane (Isobutane)	< LOQ		200			n-Butane	< LOQ		200		
n-Heptane	< LOQ		200			n-Hexane	< LOQ		30.0		
n-Pentane	< LOQ		200			o-Xylene	< LOQ		200		
Pentanes (sum)	< LOQ		600			Propane	< LOQ		200		
Tetrahydrofuran	< LOQ		100			Toluene	< LOQ		100		
Total Xylenes	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ		600		



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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod) <sup>b</sup>						Units mg/kg		Batch 2310887		Analyze 09/14/23 10:25 AM	
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin <sup>‡</sup>	< LOQ		0.250			Acephate <sup>‡</sup>	< LOQ		0.200		
Acequinocyl <sup>‡</sup>	< LOQ		1.00			Acetamiprid <sup>‡</sup>	< LOQ		0.100		
Aldicarb <sup>‡</sup>	< LOQ		0.200			Azoxystrobin <sup>‡</sup>	< LOQ		0.100		
Bifenazate <sup>‡</sup>	< LOQ		0.100			Bifenthrin <sup>‡</sup>	< LOQ		0.100		
Boscalid <sup>‡</sup>	< LOQ		0.200			Carbaryl <sup>‡</sup>	< LOQ		0.100		
Carbofuran <sup>‡</sup>	< LOQ		0.100			Chlorantraniliprole <sup>‡</sup>	< LOQ		0.100		
Chlorfenapyr <sup>‡</sup>	< LOQ		0.500			Chlorpyrifos <sup>‡</sup>	< LOQ		0.100		
Clofentezine <sup>‡</sup>	< LOQ		0.100			Cyfluthrin <sup>‡</sup>	< LOQ		0.500		
Cypermethrin <sup>‡</sup>	< LOQ		0.500			Daminozide <sup>‡</sup>	< LOQ		0.500		
Diazinon <sup>‡</sup>	< LOQ		0.100			Dichlorvos <sup>‡</sup>	< LOQ		0.500		
Dimethoate <sup>‡</sup>	< LOQ		0.100			Ethoprophos <sup>‡</sup>	< LOQ		0.100		
Etofenprox <sup>‡</sup>	< LOQ		0.200			Etoxazole <sup>‡</sup>	< LOQ		0.100		
Fenoxycarb <sup>‡</sup>	< LOQ		0.100			Fenpyroximate <sup>‡</sup>	< LOQ		0.200		
Fipronil <sup>‡</sup>	< LOQ		0.200			Flonicamid <sup>‡</sup>	< LOQ		0.400		
Fludioxonil <sup>‡</sup>	< LOQ		0.200			Hexythiazox <sup>‡</sup>	< LOQ		0.400		
Imazalil <sup>‡</sup>	< LOQ		0.100			Imidacloprid <sup>‡</sup>	< LOQ		0.200		
Kresoxim-methyl <sup>‡</sup>	< LOQ		0.200			Malathion <sup>‡</sup>	< LOQ		0.100		
Metalaxyl <sup>‡</sup>	< LOQ		0.100			Methiocarb <sup>‡</sup>	< LOQ		0.100		
Methomyl <sup>‡</sup>	< LOQ		0.200			MGK-264 <sup>‡</sup>	< LOQ		0.100		
Myclobutanil <sup>‡</sup>	< LOQ		0.100			Naled <sup>‡</sup>	< LOQ		0.250		
Oxamyl <sup>‡</sup>	< LOQ		0.500			Paclobutrazole <sup>‡</sup>	< LOQ		0.200		
Parathion-Methyl <sup>‡</sup>	< LOQ		0.100			Permethrin <sup>‡</sup>	< LOQ		0.100		
Phosmet <sup>‡</sup>	< LOQ		0.100			Piperonyl butoxide <sup>‡</sup>	< LOQ		1.00		
Prallethrin <sup>‡</sup>	< LOQ		0.100			Propiconazole <sup>‡</sup>	< LOQ		0.200		
Propoxur <sup>‡</sup>	< LOQ		0.100			Pyrethrin I (total) <sup>‡</sup>	< LOQ		0.500		
Pyridaben <sup>‡</sup>	< LOQ		0.100			Spinosad <sup>‡</sup>	< LOQ		0.100		
Spiromesifen <sup>‡</sup>	< LOQ		0.100			Spirotetramat <sup>‡</sup>	< LOQ		0.100		
Spiroxamine <sup>‡</sup>	< LOQ		0.200			Tebuconazole <sup>‡</sup>	< LOQ		0.200		
Thiacloprid <sup>‡</sup>	< LOQ		0.100			Thiamethoxam <sup>‡</sup>	< LOQ		0.100		
Trifloxystrobin <sup>‡</sup>	< LOQ		0.100								

Metals											
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes		
Arsenic <sup>‡</sup>	< LOQ		mg/kg	0.0193	2310921	09/14/23	AOAC 2013.06 (mod.) <sup>b</sup>				
Cadmium <sup>‡</sup>	< LOQ		mg/kg	0.0193	2310921	09/14/23	AOAC 2013.06 (mod.) <sup>b</sup>				
Lead <sup>‡</sup>	< LOQ		mg/kg	0.0193	2310921	09/14/23	AOAC 2013.06 (mod.) <sup>b</sup>				
Mercury <sup>‡</sup>	< LOQ		mg/kg	0.00963	2310921	09/14/23	AOAC 2013.06 (mod.) <sup>b</sup>				



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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/16g = Milligram per 16g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2310820					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		560	584	µg/g	95.9	60 - 120	
Isobutane	ND	< 200		711	767	µg/g	92.7	60 - 120	
Butane	ND	< 200		732	782	µg/g	93.6	60 - 120	
2,2-Dimethylpropane	ND	< 200		892	939	µg/g	95.0	60 - 120	
Methanol	ND	< 200		1690	1670	µg/g	101.2	60 - 120	
Ethylene Oxide	ND	< 30		57.9	57.1	µg/g	101.4	60 - 120	
2-Methylbutane	ND	< 200		1550	1680	µg/g	92.3	60 - 120	
Pentane	ND	< 200		1540	1670	µg/g	92.2	60 - 120	
Ethanol	ND	< 200		1670	1660	µg/g	100.6	70 - 130	
Ethyl Ether	ND	< 200		1600	1670	µg/g	95.8	60 - 120	
2,2-Dimethylbutane	ND	< 30		176	189	µg/g	93.1	60 - 120	
Acetone	ND	< 200		1630	1670	µg/g	97.6	60 - 120	
2-Propanol	ND	< 200		1620	1630	µg/g	99.4	60 - 120	
Ethyl Formate	ND	< 500		1380	1600	µg/g	86.3	70 - 130	
Acetonitrile	ND	< 100		471	492	µg/g	95.7	60 - 120	
Methyl Acetate	ND	< 500		1570	1600	µg/g	98.1	70 - 130	
2,3-Dimethylbutane	ND	< 30		186	180	µg/g	103.3	60 - 120	
Dichloromethane	ND	< 60		475	488	µg/g	97.3	60 - 120	
2-Methylpentane	ND	< 30		173	182	µg/g	95.1	60 - 120	
MTBE	ND	< 500		1560	1610	µg/g	96.9	70 - 130	
3-Methylpentane	ND	< 30		160	177	µg/g	90.4	60 - 120	
Hexane	ND	< 30		169	177	µg/g	95.5	60 - 120	
1-Propanol	ND	< 500		1510	1600	µg/g	94.4	70 - 130	
Methylethylketone	ND	< 500		1550	1610	µg/g	96.3	70 - 130	
Ethyl acetate	ND	< 200		1570	1630	µg/g	96.3	60 - 120	
2-Butanol	ND	< 200		1540	1630	µg/g	94.5	60 - 120	
Tetrahydrofuran	ND	< 100		454	488	µg/g	93.0	60 - 120	
Cyclohexane	ND	< 200		1510	1610	µg/g	93.8	60 - 120	
2-methyl-1-propanol	ND	< 500		1480	1610	µg/g	91.9	70 - 130	
Benzene	ND	< 1		4.69	4.79	µg/g	97.9	60 - 120	
Isopropyl Acetate	ND	< 200		1580	1650	µg/g	95.8	60 - 120	
Heptane	ND	< 200		1510	1630	µg/g	92.6	60 - 120	
1-Butanol	ND	< 500		1330	1600	µg/g	83.1	70 - 130	
Propyl Acetate	ND	< 500		1430	1600	µg/g	89.4	70 - 130	
1,4-Dioxane	ND	< 100		460	523	µg/g	88.0	60 - 120	
2-Ethoxyethanol	ND	< 30		166	179	µg/g	92.7	60 - 120	
Methylisobutylketone	ND	< 500		1370	1600	µg/g	85.6	70 - 130	
3-Methyl-1-butanol	ND	< 500		1210	1600	µg/g	75.6	70 - 130	
Ethylene Glycol	ND	< 200		269	506	µg/g	53.2	60 - 120	Q6
Toluene	ND	< 100		446	496	µg/g	89.9	60 - 120	
Isobutyl Acetate	ND	< 500		1440	1610	µg/g	89.4	70 - 130	
1-Pentanol	ND	< 500		1500	1600	µg/g	93.8	70 - 130	
Butyl Acetate	ND	< 500		1340	1610	µg/g	83.2	70 - 130	
Ethylbenzene	ND	< 200		790	978	µg/g	80.8	60 - 120	
m,p-Xylene	ND	< 200		808	994	µg/g	81.3	60 - 120	
o-Xylene	ND	< 200		770	982	µg/g	78.4	60 - 120	
Cumene	ND	< 30		133	171	µg/g	77.8	60 - 120	
Anisole	ND	< 500		1210	1600	µg/g	75.6	70 - 130	
DMSO	ND	< 500		1170	1620	µg/g	72.2	70 - 130	
1,2-dimethoxyethane	ND	< 50		170	185	µg/g	91.4	70 - 130	
Triethylamine	ND	< 500		1380	1600	µg/g	86.3	70 - 130	
N,N-dimethylformamide	ND	< 150		410	480	µg/g	85.4	70 - 130	
N,N-dimethylacetamide	ND	< 150		343	483	µg/g	71.0	70 - 130	
Pyridine	ND	< 50		133	168	µg/g	79.2	70 - 130	
Sulfolane	ND	< 50		91.9	161	µg/g	57.1	70 - 130	Q6
1,2-Dichloroethane	ND	< 1		0.985	1	µg/g	98.5	70 - 130	
Chloroform	ND	< 1		0.86	1	µg/g	86.0	70 - 130	
Trichloroethylene	ND	< 1		0.862	1	µg/g	86.2	70 - 130	
1,1-Dichloroethane	ND	< 1		0.923	1	µg/g	92.3	70 - 130	



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

QC - Sample Duplicate		Sample ID: 23-010289-0002						
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





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



**Report Number:** 23-010685/D002.R000  
**Report Date:** 09/15/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/08/23 10:49

Revision: 4 Document ID: 7148  
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2310834

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0312	0.0309	%	101	80.0	- 120	Acceptable	
CBDV	2	0.0320	0.0313	%	102	80.0	- 120	Acceptable	
CBE	2	0.0336	0.0329	%	102	80.0	- 120	Acceptable	
CBDA	1	0.0375	0.0363	%	103	90.0	- 110	Acceptable	
CBGA	1	0.0368	0.0368	%	100	80.0	- 120	Acceptable	
CBG	1	0.0391	0.0392	%	99.7	80.0	- 120	Acceptable	
CBD	1	0.0372	0.0380	%	97.8	90.0	- 110	Acceptable	
THCV	2	0.0201	0.0200	%	100	80.0	- 120	Acceptable	
d8THCV	2	0.0285	0.0276	%	103	80.0	- 120	Acceptable	
THCVA	2	0.0318	0.0307	%	103	80.0	- 120	Acceptable	
CBN	1	0.0382	0.0370	%	103	80.0	- 120	Acceptable	
exo-THC	2	0.0295	0.0302	%	97.4	80.0	- 120	Acceptable	
d9THC	1	0.0377	0.0385	%	97.9	90.0	- 110	Acceptable	
d8THC	1	0.0397	0.0391	%	101	90.0	- 110	Acceptable	
9S-d10THC	1	0.0378	0.0383	%	98.8	80.0	- 120	Acceptable	
CBL	2	0.0293	0.0311	%	94.0	80.0	- 120	Acceptable	
9R-d10THC	1	0.0128	0.0124	%	103	80.0	- 120	Acceptable	
CBC	2	0.0329	0.0335	%	98.3	80.0	- 120	Acceptable	
THCA	1	0.0376	0.0369	%	102	90.0	- 110	Acceptable	
CBCA	2	0.0328	0.0319	%	103	80.0	- 120	Acceptable	
CBLA	2	0.0672	0.0647	%	104	80.0	- 120	Acceptable	
d9THCP	2	0.0280	0.0316	%	88.6	80.0	- 120	Acceptable	
CBT	2	0.0270	0.0308	%	87.6	80.0	- 120	Acceptable	

Method Blank							
Analyte	Result	LOQ	Units	Limits		Evaluation	Notes
CBDVA	<LOQ	0.00306	%	< 0.00306		Acceptable	
CBDV	<LOQ	0.00306	%	< 0.00306		Acceptable	
CBE	<LOQ	0.00306	%	< 0.00306		Acceptable	
CBDA	<LOQ	0.00306	%	< 0.00306		Acceptable	
CBGA	<LOQ	0.00306	%	< 0.00306		Acceptable	
CBG	<LOQ	0.00306	%	< 0.00306		Acceptable	
CBD	<LOQ	0.00306	%	< 0.00306		Acceptable	
THCV	<LOQ	0.00306	%	< 0.00306		Acceptable	
d8THCV	<LOQ	0.00306	%	< 0.00306		Acceptable	
THCVA	<LOQ	0.00306	%	< 0.00306		Acceptable	
CBN	<LOQ	0.00306	%	< 0.00306		Acceptable	
exo-THC	<LOQ	0.00306	%	< 0.00306		Acceptable	
d9THC	<LOQ	0.00306	%	< 0.00306		Acceptable	
d8THC	<LOQ	0.00306	%	< 0.00306		Acceptable	
9S-d10THC	<LOQ	0.00306	%	< 0.00306		Acceptable	
CBL	<LOQ	0.00306	%	< 0.00306		Acceptable	
9R-d10THC	<LOQ	0.00306	%	< 0.00306		Acceptable	
CBC	<LOQ	0.00306	%	< 0.00306		Acceptable	
THCA	<LOQ	0.00306	%	< 0.00306		Acceptable	
CBCA	<LOQ	0.00306	%	< 0.00306		Acceptable	
CBLA	<LOQ	0.00306	%	< 0.00306		Acceptable	
d9THCP	<LOQ	0.00306	%	< 0.00306		Acceptable	
CBT	<LOQ	0.00306	%	< 0.00306		Acceptable	

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

**Units of Measure:**  
% - Percent



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



**Report Number:** 23-010685/D002.R000  
**Report Date:** 09/15/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/08/23 10:49

Revision: 4 Document ID: 7148  
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2310834						
Sample Duplicate		Sample ID: 23-010665-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
CBE	0.00586	0.00583	0.00311	%	0.401	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
CBG	0.00627	0.00625	0.00311	%	0.388	< 20	Acceptable	
CBD	0.620	0.626	0.00311	%	1.04	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
CBN	0.00399	0.00401	0.00311	%	0.362	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
d9THC	0.0181	0.0183	0.00311	%	0.815	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
CBC	0.0156	0.0158	0.00311	%	0.923	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00311	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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



**Report Number:** 23-010685/D002.R000  
**Report Date:** 09/15/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/08/23 10:49

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: 2310887			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.863	1.000	86.3	50.0 150	
Acephate	0.001	< 0.200		0.677	0.800	84.6	60.0 120	
Acetaminocyl	0.100	< 1.000		3.365	4.000	84.1	40.0 160	
Acetamiprid	0.005	< 0.100		0.349	0.400	87.3	60.0 120	
Aldicarb	0.000	< 0.200		0.688	0.800	86.0	60.0 120	
Azoxystrobin	0.003	< 0.100		0.346	0.400	86.6	60.0 120	
Bifenazate	0.000	< 0.100		0.346	0.400	86.4	60.0 120	
Bifenthrin	0.000	< 0.100		0.343	0.400	85.9	50.0 150	
Boscalid	0.000	< 0.200		0.698	0.800	87.3	60.0 120	
Carbaryl	0.004	< 0.100		0.349	0.400	87.3	60.0 120	
Carbofuran	0.000	< 0.100		0.351	0.400	87.7	60.0 120	
Chlorantraniliprole	0.000	< 0.100		0.337	0.400	84.3	60.0 120	
Chlorfenapyr	0.000	< 0.500		1.741	2.000	87.0	60.0 120	
Chlorpyrifos	0.000	< 0.100		0.333	0.400	83.3	60.0 120	
Clofentazine	0.000	< 0.100		0.332	0.400	83.0	60.0 120	
Cyfluthrin	0.000	< 0.500		1.768	2.000	88.4	50.0 150	
Cypermethrin	0.000	< 0.500		1.751	2.000	87.5	50.0 150	
Daminozide	0.003	< 0.500		0.638	2.000	31.9	60.0 120	Q1
Diazinon	0.000	< 0.100		0.361	0.400	90.2	60.0 120	
Dichlorvos	0.000	< 0.500		1.722	2.000	86.1	60.0 120	
Dimethoate	0.000	< 0.100		0.344	0.400	86.1	60.0 120	
Ethoprophos	0.002	< 0.100		0.342	0.400	85.5	60.0 120	
Etofenprox	0.011	< 0.200		0.691	0.800	86.3	50.0 150	
Etoxazole	0.013	< 0.100		0.341	0.400	85.3	60.0 120	
Fenoxycarb	0.000	< 0.100		0.352	0.400	87.9	60.0 120	
Fenpyroximate	0.009	< 0.200		0.708	0.800	88.5	60.0 120	
Fipronil	0.000	< 0.200		0.705	0.800	88.2	60.0 120	
Fonicamid	0.000	< 0.250		0.868	1.000	86.8	60.0 120	
Fludioxonil	0.000	< 0.200		0.720	0.800	89.9	50.0 150	
Hexythiazox	0.000	< 0.250		0.907	1.000	90.7	60.0 120	
Imazalil	0.000	< 0.100		0.350	0.400	87.6	60.0 120	
Imidacloprid	0.000	< 0.200		0.706	0.800	88.3	60.0 120	
Kresoxim-methyl	0.000	< 0.200		0.693	0.800	86.6	60.0 120	
Malathion	0.003	< 0.100		0.344	0.400	85.9	60.0 120	
Metlaxyl	0.000	< 0.100		0.349	0.400	87.3	60.0 120	
Methiocarb	0.003	< 0.100		0.355	0.400	88.7	60.0 120	
Methomyl	0.000	< 0.200		0.723	0.800	90.4	60.0 120	
MGK-264	0.000	< 0.100		0.330	0.400	82.6	50.0 150	
Myclobutanil	0.007	< 0.100		0.348	0.400	87.0	60.0 120	
Naled	0.000	< 0.250		0.858	1.000	85.8	50.0 150	
Oxamyl	0.000	< 0.500		1.752	2.000	87.6	60.0 120	
Pacllobutrazole	0.000	< 0.200		0.700	0.800	87.5	60.0 120	
Parathion-Methyl	0.000	< 0.100		0.370	0.400	92.6	50.0 150	
Permethrin	0.005	< 0.100		0.346	0.400	86.6	50.0 150	
Phosmet	0.000	< 0.100		0.354	0.400	88.4	50.0 150	
Piperonyl butoxide	0.025	< 0.500		1.759	2.000	88.0	60.0 120	
Prallethrin	0.000	< 0.100		0.351	0.400	87.6	60.0 120	
Propiconazole	0.000	< 0.200		0.693	0.800	86.7	60.0 120	
Propoxur	0.014	< 0.100		0.334	0.400	83.6	60.0 120	
Pyrethrin (Summe)	0.001	< 0.100		0.430	0.488	88.2	60.0 120	
Pyridaben	0.003	< 0.100		0.353	0.400	88.3	50.0 150	
Spirosad	0.000	< 0.100		0.350	0.388	90.1	50.0 150	
Spiromesifen	0.000	< 0.100		0.341	0.400	85.3	60.0 120	
Spirotetramat	0.000	< 0.100		0.360	0.400	90.1	60.0 120	
Spiroxamine	0.010	< 0.200		0.709	0.800	88.7	60.0 120	
Tebuconazole	0.000	< 0.200		0.675	0.800	84.4	60.0 120	
Thiacloprid	0.000	< 0.100		0.361	0.400	90.2	60.0 120	
Thiamethoxam	0.000	< 0.100		0.363	0.400	90.7	60.0 120	
Trifloxystrobin	0.000	< 0.100		0.347	0.400	86.8	60.0 120	



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**Report Number:** 23-010685/D002.R000  
**Report Date:** 09/15/2023  
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**Purchase Order:**  
**Received:** 09/08/23 10:49

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: 2310887				
Matrix Spike/Matrix Spike Duplicate Recoveries					Sample ID: 23-010685-0001					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.950	0.931	1.000	2.1%	< 30	95.0%	93.1%	50 - 150	
Acephate	0.000	0.634	0.624	0.800	1.5%	< 30	79.2%	78.0%	50 - 150	
Acequinocyl	0.000	3.196	2.935	4.000	8.5%	< 30	79.9%	73.4%	50 - 150	
Acetamiprid	0.004	0.389	0.387	0.400	0.5%	< 30	96.1%	95.6%	50 - 150	
Aldicarb	0.000	0.717	0.718	0.800	0.3%	< 30	89.6%	89.8%	50 - 150	
Azoxystrobin	0.003	0.332	0.351	0.400	5.8%	< 30	82.2%	87.1%	50 - 150	
Bifenazate	0.000	0.367	0.360	0.400	1.8%	< 30	91.6%	90.0%	50 - 150	
Bifenthrin	0.000	0.346	0.320	0.400	7.6%	< 30	86.4%	80.1%	50 - 150	
Boscalid	0.000	0.811	0.701	0.800	14.6%	< 30	101.3%	87.6%	50 - 150	
Carbaryl	0.000	0.371	0.350	0.400	5.9%	< 30	92.9%	87.5%	50 - 150	
Carbofuran	0.000	0.365	0.363	0.400	0.5%	< 30	91.3%	90.9%	50 - 150	
Chlorantraniliprole	0.000	0.355	0.351	0.400	0.9%	< 30	88.7%	87.9%	50 - 150	
Chlorfenapyr	0.000	1.913	1.863	2.000	2.6%	< 30	95.6%	93.2%	50 - 150	
Chlorpyrifos	0.000	0.348	0.340	0.400	2.3%	< 30	87.0%	85.1%	50 - 150	
Clofentezine	0.000	0.332	0.325	0.400	2.1%	< 30	82.9%	81.2%	50 - 150	
Cyfluthrin	0.000	1.956	1.942	2.000	0.7%	< 30	97.8%	97.1%	30 - 150	
Cypermethrin	0.000	1.795	1.760	2.000	2.0%	< 30	89.8%	88.0%	50 - 150	
Daminozide	0.000	0.608	0.622	2.000	2.3%	< 30	30.4%	31.1%	30 - 150	
Diazinon	0.000	0.371	0.369	0.400	0.7%	< 30	92.8%	92.2%	50 - 150	
Dichlorvos	0.000	1.855	1.811	2.000	2.4%	< 30	92.7%	90.6%	50 - 150	
Dimethoate	0.002	0.370	0.358	0.400	3.1%	< 30	91.9%	89.1%	50 - 150	
Ethoprophos	0.002	0.367	0.360	0.400	2.1%	< 30	91.3%	89.4%	50 - 150	
Etofenprox	0.012	0.690	0.661	0.800	4.5%	< 30	84.8%	81.1%	50 - 150	
Etoxazole	0.013	0.349	0.354	0.400	1.4%	< 30	84.1%	85.2%	50 - 150	
Fenoxycarb	0.000	0.365	0.364	0.400	0.1%	< 30	91.2%	91.1%	50 - 150	
Fenpyroximate	0.009	0.707	0.684	0.800	3.3%	< 30	87.2%	84.3%	50 - 150	
Fipronil	0.013	0.728	0.720	0.800	1.0%	< 30	89.4%	88.5%	50 - 150	
Fonicamid	0.000	0.901	0.855	1.000	5.2%	< 30	90.1%	85.5%	50 - 150	
Fludioxonil	0.000	0.770	0.776	0.800	0.8%	< 30	96.2%	97.0%	50 - 150	
Hexythiazox	0.005	1.146	1.136	1.000	0.9%	< 30	114.1%	113.1%	50 - 150	
Imazalil	0.000	0.369	0.359	0.400	2.9%	< 30	92.4%	89.7%	50 - 150	
Imidacloprid	0.000	0.751	0.742	0.800	1.3%	< 30	93.9%	92.7%	50 - 150	
Kresoxim-methyl	0.018	0.708	0.710	0.800	0.3%	< 30	86.4%	86.6%	50 - 150	
Malathion	0.000	0.364	0.366	0.400	0.5%	< 30	91.0%	91.4%	50 - 150	
Metaxalyl	0.000	0.372	0.356	0.400	4.3%	< 30	92.9%	89.0%	50 - 150	
Methiocarb	0.002	0.369	0.357	0.400	3.4%	< 30	91.8%	88.6%	50 - 150	
Methomyl	0.000	0.766	0.654	0.800	15.8%	< 30	95.8%	81.8%	50 - 150	
MGK-264	0.000	0.337	0.350	0.400	3.6%	< 30	84.4%	87.5%	50 - 150	
Myclobutanil	0.000	0.361	0.358	0.400	1.0%	< 30	90.3%	89.4%	50 - 150	
Naled	0.000	0.895	0.882	1.000	1.5%	< 30	89.5%	88.2%	50 - 150	
Oxamyl	0.000	1.768	1.677	2.000	5.3%	< 30	88.4%	83.8%	50 - 150	
Pacllobutrazole	0.000	0.740	0.753	0.800	1.7%	< 30	92.5%	94.1%	50 - 150	
Parathion-Methyl	0.000	0.361	0.346	0.400	4.3%	< 30	90.3%	86.5%	30 - 150	
Permethrin	0.010	0.348	0.333	0.400	4.4%	< 30	84.5%	80.8%	50 - 150	
Phosmet	0.003	0.361	0.370	0.400	2.3%	< 30	89.6%	91.7%	50 - 150	
Piperonyl butoxide	0.070	1.805	1.778	2.000	1.6%	< 30	86.8%	85.4%	50 - 150	
Prallethrin	0.000	0.365	0.355	0.400	2.7%	< 30	91.2%	88.8%	50 - 150	
Propiconazole	0.000	0.737	0.736	0.800	0.1%	< 30	92.1%	92.0%	50 - 150	
Propoxur	0.013	0.368	0.356	0.400	3.5%	< 30	88.7%	85.6%	50 - 150	
Pyrethrin (Summe)	0.000	0.449	0.441	0.488	1.9%	< 30	92.0%	90.3%	50 - 150	
Pyridaben	0.003	0.388	0.369	0.400	5.2%	< 30	96.3%	91.4%	50 - 150	
Spirosad	0.000	0.357	0.358	0.388	0.3%	< 30	92.0%	92.3%	50 - 150	
Spiromesifen	0.000	0.340	0.332	0.400	2.3%	< 30	85.0%	83.0%	50 - 150	
Spirotetramat	0.000	0.361	0.364	0.400	0.8%	< 30	90.3%	91.0%	50 - 150	
Spiroxamine	0.000	0.740	0.724	0.800	2.2%	< 30	92.5%	90.5%	50 - 150	
Tebuconazole	0.000	0.726	0.672	0.800	7.8%	< 30	90.8%	83.9%	50 - 150	
Thiacloprid	0.000	0.376	0.370	0.400	1.7%	< 30	94.0%	92.5%	50 - 150	
Thiamethoxam	0.000	0.403	0.332	0.400	19.2%	< 30	100.7%	83.1%	50 - 150	
Trifloxystrobin	0.000	0.361	0.365	0.400	1.2%	< 30	90.3%	91.4%	50 - 150	



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Portland, OR 97230  
503-254-1794



**Report Number:** 23-010685/D002.R000  
**Report Date:** 09/15/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/08/23 10:49





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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.