



Customer: NW Natural Goods
 United States of America (USA)
Product identity: BEV - BP B-13-1
Metric ID: .
Metric Source ID:
Material: Cannabinoid Beverage
Sample Date:
Laboratory ID: 25-002805-0001
Evidence of Cooling: No
Temp: 18.8 °C
Serving Size #1: 355 ml
Density (as Provided): 1.02 g/ml

Sample Results

Potency					Method: J AOAC 2015 V98-6 (mod) ^b				Batch: 2502000			Analyze: 2025-03-19 19:21:00		
Analyte	Result	Units	LOQ	Notes	Serving Size #1									
					Result	Units	LOQ							
CBC	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
CBC-A	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
CBC-Total	< LOQ	%	0.0002		< LOQ	mg/355ml	0.675							
CBD ⁺	0.00697	%	0.0001		25.2	mg/355ml	0.360							
CBD-A ⁺	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
CBD-Total ⁺	0.00697	%	0.0002		25.2	mg/355ml	0.675							
CBDV	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
CBDV-A	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
CBDV-Total	< LOQ	%	0.0002		< LOQ	mg/355ml	0.671							
CBE	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
CBG	0.000171	%	0.0001		0.621	mg/355ml	0.360							
CBG-A	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
CBG-Total	< LOQ	%	0.0002		< LOQ	mg/355ml	0.671							
CBL	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
CBL-A	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
CBL-Total	< LOQ	%	0.0002		< LOQ	mg/355ml	0.675							
CBN	0.00146	%	0.0001		5.29	mg/355ml	0.360							
CBT	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
Δ10-THC-9R	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
Δ10-THC-9S	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
Δ10-THC-Total	< LOQ	%	0.0002		< LOQ	mg/355ml	0.719							
Δ8-THC ⁺	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
Δ8-THCV	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
Δ9-THC ⁺	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
Δ9-THC-A ⁺	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
Δ9-THC-Total ⁺	< LOQ	%	0.0002		< LOQ	mg/355ml	0.675							
Δ9-THCP	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
Δ9-THCV	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							
Δ9-THCV-A	< LOQ	%	0.0001		< LOQ	mg/355ml	0.360							



Potency Method: J AOAC 2015 V98-6 (mod)^p Batch: 2502000 Analyze: 2025-03-19 19:21:00

Analyte	Result	Units	LOQ	Notes	Serving Size #1		
					Result	Units	LOQ
Δ9-THCV-Total	< LOQ	%	0.0002		< LOQ	mg/355ml	0.671
exo-THC	< LOQ	%	0.0001		< LOQ	µg/g	
Total Cannabinoids	0.00860	%			31.1	mg/355ml	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2501942	03/21/25 AOAC 990.12 (Petrifilm)		
E.coli	< LOQ		cfu/g	10	2501940	03/21/25 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2501940	03/21/25 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2501941	03/22/25 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2501941	03/22/25 AOAC 2014.05 (RAPID)		

Solvents Method: Residual Solvents by HS-GC-MS^p Units µg/g Batch 2502015 Analyze 03/20/25 01:14 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		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	



Pesticides										
Method: AOAC 2007.01 & EN 15662 (mod)										
Units mg/kg Batch 2502077 Analyze 03/24/25 09:01 AM										
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status
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-ethyl [±]	< LOQ	0.20	0.100	pass
Clofentezine [±]	< LOQ	0.20	0.100	pass		Cyfluthrin (sum) [±]	< LOQ	1.0	0.500	pass
Cypermethrin and	< 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		Fenproximate [±]	< 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	0.00391	2502024	03/20/25 AOAC 2013.06 (mod.) ^p	pass			
Cadmium [±]	< LOQ	0.200	mg/kg	0.00391	2502024	03/20/25 AOAC 2013.06 (mod.) ^p	pass			
Lead [±]	< LOQ	0.500	mg/kg	0.00391	2502024	03/20/25 AOAC 2013.06 (mod.) ^p	pass			
Mercury [±]	< LOQ	0.100	mg/kg	0.00196	2502024	03/20/25 AOAC 2013.06 (mod.) ^p	pass			



Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B1 [±]	< LOQ		µg/kg	5.00	2502097	03/24/25 Mycotoxins by AOAC 2007.01		
Aflatoxin B2 [±]	< LOQ		µg/kg	5.00	2502097	03/24/25 Mycotoxins by AOAC 2007.01		
Aflatoxin G1 [±]	< LOQ		µg/kg	5.00	2502097	03/24/25 Mycotoxins by AOAC 2007.01		
Aflatoxin G2 [±]	< LOQ		µg/kg	5.00	2502097	03/24/25 Mycotoxins by AOAC 2007.01		
Ochratoxin A	< LOQ	20.0	µg/kg	5.00	2502097	03/24/25 Mycotoxins by AOAC 2007.01 ^b	pass	
Total Aflatoxins	< LOQ	20.0	µg/kg	20.0		03/25/25 Mycotoxins by AOAC 2007.01 ^b	pass	

**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

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

mg/kg = Milligram per kilogram = parts per million (ppm)

% = Percentage of sample

mg/355ml = Milligram per 355ml

% wt = µg/g divided by 10,000



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



Report Number: 25-002805/D004.R000
Report Date: 03/25/2025
ORELAP#: OR100028
Purchase Order:
Received: 03/18/25 11:30



Hemp & Cannabis
Chain of Custody

NW-Natural-Goods-
1742303030

Company Details Company: NW Natural Goods [Redacted] [Redacted] [Redacted] [Redacted] [Redacted] [Redacted] Billing Information [Redacted] [Redacted]		Project Details Turnaround Time: 5 Business Days Reg. For Micro Testing Standard Relinquishment Sampling, Courier & Shipping Options: <u>Pick-Up Courier Service</u> Project Name / ID: <u>BEV - BP B-13-1</u> Pick-Up Details Pick-Up Location Name: <u>NW Natural Goods</u> [Redacted] [Redacted] [Redacted] Receipt Information Evidence of Cooling?: No Sample Condition: Satisfactory Prelog Storage: Canna Shelves			Testing H0008 - Residual Solvents (Cannabis - Oregon) P2120 - Pesticides (OR - Cannabis) H0010 - Potency Cannabis (Basic+Expanded) H0042S - Aflatoxins+Ochratoxin OLCC M1010 - Micro Profile D H0013 - Cannabis Heavy Metals Profile OR						
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size						
1	BEV - BP B-13-1	Cannab no d Beverage	4 each	mg/g & mg/serv ng	355 g	✓	✓	✓	✓	✓	✓

Relinquished By	Date	Time		Received By	Date	Time	Received Temp., °C	IR Therm. CL#
JO SHOOD	03/18/2025	06:03	Temp., °C	BCR	03/18/2025	10:32	NA	NA
BCR	03/18/2025	11:03	18.8	dot	03/18/2025	11:30	18.8	Other

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of services](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories
12423 NE Whitaker Way
Portland, OR 97230

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Laboratory Quality Control Results

J AOAC 2015 V98-6					Batch ID: 0				
Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0009	0.0010	%	97.2	80.0	- 120	Acceptable	
CBDV	2	0.00104	0.00104	%	99.8	80.0	- 120	Acceptable	
CBE	2	0.00102	0.00102	%	99.9	80.0	- 120	Acceptable	
CBDA	1	0.00101	0.00106	%	95.7	90.0	- 110	Acceptable	
CBGA	1	0.00102	0.00104	%	98.0	80.0	- 120	Acceptable	
CBG	1	0.00103	0.00101	%	101	80.0	- 120	Acceptable	
CBD	1	0.0010	0.0010	%	100	90.0	- 110	Acceptable	
THCV	2	0.00102	0.00100	%	101	80.0	- 120	Acceptable	
d8THCV	2	0.00105	0.00107	%	97.7	80.0	- 120	Acceptable	
THCVA	2	0.0009	0.0010	%	94.5	80.0	- 120	Acceptable	
CBN	1	0.00102	0.00100	%	102	80.0	- 120	Acceptable	
exo-THC	2	0.0010	0.0010	%	100	80.0	- 120	Acceptable	
d9THC	1	0.00102	0.00100	%	101	90.0	- 110	Acceptable	
d8THC	1	0.00104	0.00105	%	99.9	90.0	- 110	Acceptable	
9S-d10THC	1	0.00109	0.00107	%	101	80.0	- 120	Acceptable	
CBL	2	0.00101	0.0010	%	103	80.0	- 120	Acceptable	
9R-d10THC	1	0.00109	0.00108	%	101	80.0	- 120	Acceptable	
CBC	2	0.00105	0.00103	%	102	80.0	- 120	Acceptable	
THCA	1	0.00108	0.00113	%	95.5	90.0	- 110	Acceptable	
CBCA	2	0.0010	0.0010	%	97.0	80.0	- 120	Acceptable	
CBLA	2	0.0010	0.0010	%	98.4	80.0	- 120	Acceptable	
d9THCP	2	0.00102	0.00100	%	102	80.0	- 120	Acceptable	
CBT	2	0.00104	0.00103	%	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


Laboratory Quality Control Results

AOAC 2015 V98-6			Batch ID: 0					
Sample Duplicate			Sample ID: 25-002721-0001					
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	
CBDA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG	0.00270	0.00268	0.0001	%	0.759	< 20	Acceptable	
CBD	0.00569	0.00567	0.0001	%	0.440	< 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


Laboratory Quality Control Results

Residual Solvents					Batch ID: 2502015				
Method Blank					Laboratory Control Sample				
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		517	585	µg/g	88.4	60 - 120	
Isobutane	ND	< 200		682	770	µg/g	88.6	60 - 120	
Butane	ND	< 200		671	769	µg/g	87.3	60 - 120	
2,2-Dimethylpropane	ND	< 200		783	956	µg/g	81.9	60 - 120	
Methanol	ND	< 200		1720	1650	µg/g	104.2	60 - 120	
Ethylene Oxide	ND	< 30		50.3	57.7	µg/g	87.2	60 - 120	
2-Methylbutane	ND	< 200		1680	1620	µg/g	103.7	60 - 120	
Pentane	ND	< 200		1690	1620	µg/g	104.3	60 - 120	
Ethanol	ND	< 200		1710	1680	µg/g	101.8	70 - 130	
Ethyl Ether	ND	< 200		1670	1640	µg/g	101.8	60 - 120	
2,2-Dimethylbutane	ND	< 30		190	182	µg/g	104.4	60 - 120	
Acetone	ND	< 200		1680	1640	µg/g	102.4	60 - 120	
2-Propanol	ND	< 200		1660	1630	µg/g	101.8	60 - 120	
Ethyl Formate	ND	< 500		1170	1610	µg/g	72.7	70 - 130	
Acetonitrile	ND	< 100		529	513	µg/g	103.1	60 - 120	
Methyl Acetate	ND	< 500		1640	1610	µg/g	101.9	70 - 130	
2,3-Dimethylbutane	ND	< 30		189	184	µg/g	102.7	60 - 120	
Dichloromethane	ND	< 60		599	589	µg/g	101.7	60 - 120	
2-Methylpentane	ND	< 30		193	185	µg/g	104.3	60 - 120	
MTBE	ND	< 500		1590	1610	µg/g	98.8	70 - 130	
3-Methylpentane	ND	< 30		183	177	µg/g	103.4	60 - 120	
Hexane	ND	< 30		181	174	µg/g	104.0	60 - 120	
1-Propanol	ND	< 500		1600	1600	µg/g	100.0	70 - 130	
Methylethylketone	ND	< 500		1610	1610	µg/g	100.0	70 - 130	
Ethyl acetate	ND	< 200		1660	1620	µg/g	102.5	60 - 120	
2-Butanol	ND	< 200		1620	1640	µg/g	98.8	60 - 120	
Tetrahydrofuran	ND	< 100		519	511	µg/g	101.6	60 - 120	
Cyclohexane	ND	< 200		1580	1610	µg/g	98.1	60 - 120	
2-methyl-1-propanol	ND	< 500		1620	1610	µg/g	100.6	70 - 130	
Benzene	ND	< 1		5.17	5.56	µg/g	93.0	60 - 120	
Isopropyl Acetate	ND	< 200		1580	1620	µg/g	97.5	60 - 120	
Heptane	ND	< 200		1520	1610	µg/g	94.4	60 - 120	
1-Butanol	ND	< 500		1490	1610	µg/g	92.5	70 - 130	
Propyl Acetate	ND	< 500		1550	1620	µg/g	95.7	70 - 130	
1,4-Dioxane	ND	< 100		470	487	µg/g	96.5	60 - 120	
2-Ethoxyethanol	ND	< 30		169	180	µg/g	93.9	60 - 120	
Methylisobutylketone	ND	< 500		1500	1620	µg/g	92.6	70 - 130	
3-Methyl-1-butanol	ND	< 500		1430	1600	µg/g	89.4	70 - 130	
Ethylene Glycol	ND	< 200		412	530	µg/g	77.7	60 - 120	
Toluene	ND	< 100		466	497	µg/g	93.8	60 - 120	
Isobutyl Acetate	ND	< 500		1530	1620	µg/g	94.4	70 - 130	
1-Pentanol	ND	< 500		1490	1600	µg/g	93.1	70 - 130	
Butyl Acetate	ND	< 500		1540	1600	µg/g	96.3	70 - 130	
Ethylbenzene	ND	< 200		1030	1060	µg/g	97.2	60 - 120	
m,p-Xylene	ND	< 200		942	1040	µg/g	90.6	60 - 120	
o-Xylene	ND	< 200		966	1090	µg/g	88.6	60 - 120	
Cumene	ND	< 30		203	227	µg/g	89.4	60 - 120	
Anisole	ND	< 500		1430	1610	µg/g	88.8	70 - 130	
DMSO	ND	< 500		1390	1600	µg/g	86.9	70 - 130	
1,2-dimethoxyethane	ND	< 50		164	162	µg/g	101.2	70 - 130	
Triethylamine	ND	< 500		1500	1600	µg/g	93.8	70 - 130	
N,N-dimethylformamide	ND	< 150		497	487	µg/g	102.1	70 - 130	
N,N-dimethylacetamide	ND	< 150		462	498	µg/g	92.8	70 - 130	
Pyridine	ND	< 50		167	162	µg/g	103.1	70 - 130	
Sulfolane	ND	< 50		131	173	µg/g	75.7	70 - 130	
1,2-Dichloroethane	ND	< 1		1.05	1	µg/g	105.0	70 - 130	
Chloroform	ND	< 1		1.05	1	µg/g	105.0	70 - 130	
Trichloroethylene	ND	< 1		0.945	1	µg/g	94.5	70 - 130	
1,1-Dichloroethane	ND	< 1		1.14	1	µg/g	114.0	70 - 130	


QC - Sample Duplicate
Sample ID: 25-002637-0001

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	7170	7880	200	µg/g	9.4	< 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	548	605	200	µg/g	9.9	< 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	1410	1580	500	µg/g	11.4	< 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

Units of Measure:

µg/g- Microgram per gram or ppm



Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662				Units: mg/Kg		Batch ID: 0		
Method Blank				Laboratory Control Sample				
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.948	1.000	94.8	50.0 150	
Acephate	0.000	< 0.200		0.669	0.800	83.6	60.0 120	
Acequinocyl	0.000	< 1.000		5.583	4.000	139.6	40.0 160	
Acetamiprid	0.000	< 0.100		0.367	0.400	91.6	60.0 120	
Aldicarb	0.000	< 0.200		0.721	0.800	90.2	60.0 120	
Azoxystrobin	0.000	< 0.100		0.354	0.400	88.5	60.0 120	
Bifenazate	0.000	< 0.100		0.389	0.400	97.2	60.0 120	
Bifenthrin	0.025	< 0.100		0.297	0.400	74.3	50.0 150	
Boscalid	0.000	< 0.200		0.739	0.800	92.3	60.0 120	
Carbaryl	0.000	< 0.100		0.363	0.400	90.7	60.0 120	
Carbofuran	0.000	< 0.100		0.372	0.400	92.9	60.0 120	
Chlorantraniliprole	0.000	< 0.100		0.363	0.400	90.9	60.0 120	
Chlorfenapyr	0.000	< 0.500		1.726	2.000	86.3	60.0 120	
Chlorpyrifos	0.000	< 0.100		0.366	0.400	91.5	60.0 120	
Clofentezine	0.000	< 0.100		0.318	0.400	79.4	60.0 120	
Cyfluthrin	0.000	< 0.500		1.802	2.000	90.1	50.0 150	
Cypermethrin	0.000	< 0.500		1.770	2.000	88.5	50.0 150	
Daminozide	0.000	< 0.500		0.616	2.000	30.8	60.0 120	Q7
Diazinon	0.000	< 0.100		0.372	0.400	93.1	60.0 120	
Dichlorvos	0.007	< 0.500		1.822	2.000	91.1	60.0 120	
Dimethoate	0.000	< 0.100		0.359	0.400	89.7	60.0 120	
Ethoprophos	0.000	< 0.100		0.363	0.400	90.7	60.0 120	
Etofenprox	0.062	< 0.200		0.592	0.800	74.0	50.0 150	
Etoazole	0.002	< 0.100		0.355	0.400	88.8	60.0 120	
Fenoxycarb	0.000	< 0.100		0.361	0.400	90.3	60.0 120	
Fenpyroximate	0.017	< 0.200		0.684	0.800	85.5	60.0 120	
Fipronil	0.000	< 0.200		0.744	0.800	93.0	60.0 120	
Flonicamid	0.000	< 0.250		0.887	1.000	88.7	60.0 120	
Fludioxonil	0.000	< 0.200		0.752	0.800	94.0	50.0 150	
Hexythiazox	0.001	< 0.250		0.902	1.000	90.2	60.0 120	
Imazalil	0.000	< 0.100		0.370	0.400	92.5	60.0 120	
Imidacloprid	0.077	< 0.200		0.779	0.800	97.3	60.0 120	
Kresoxim-methyl	0.000	< 0.200		0.728	0.800	91.0	60.0 120	
Malathion	0.000	< 0.100		0.369	0.400	92.2	60.0 120	
Metalaxyl	0.000	< 0.100		0.367	0.400	91.8	60.0 120	
Methiocarb	0.000	< 0.100		0.363	0.400	90.8	60.0 120	
Methomyl	0.000	< 0.200		0.725	0.800	90.6	60.0 120	
MGK-264	0.000	< 0.100		0.361	0.400	90.3	50.0 150	
Myclobutanil	0.000	< 0.100		0.367	0.400	91.7	60.0 120	
Naled	0.000	< 0.250		0.882	1.000	88.2	50.0 150	
Oxamyl	0.000	< 0.500		1.725	2.000	86.3	60.0 120	
Paclobutrazole	0.000	< 0.200		0.741	0.800	92.6	60.0 120	
Parathion-Methyl	0.000	< 0.100		0.373	0.400	93.1	50.0 150	
Permethrin	0.011	< 0.100		0.299	0.400	74.8	50.0 150	
Phosmet	0.000	< 0.100		0.366	0.400	91.4	50.0 150	
Piperonyl butoxide	0.000	< 0.500		1.833	2.000	91.6	60.0 120	
Prallethrin	0.000	< 0.100		0.366	0.400	91.5	60.0 120	
Propiconazole	0.000	< 0.200		0.738	0.800	92.2	60.0 120	
Propoxur	0.000	< 0.100		0.361	0.400	90.3	60.0 120	
Pyrethrin (Summe)	0.000	< 0.100		0.404	0.488	82.8	60.0 120	
Pyridaben	0.009	< 0.100		0.325	0.400	81.2	50.0 150	
Spinosad	0.000	< 0.100		0.351	0.388	90.4	50.0 150	
Spiromesifen	0.000	< 0.100		0.366	0.400	91.6	60.0 120	
Spirotetramat	0.000	< 0.100		0.368	0.400	92.0	60.0 120	
Spiroxamine	0.000	< 0.200		0.724	0.800	90.5	60.0 120	



Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662				Units: mg/Kg				Batch ID: 0			
Matrix Spike/Matrix Spike Duplicate Recoveries							Sample ID: 25-002805-0001				
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Abamectin	0.000	0.923	0.905	1.000	2.0%	< 30	92.3%	90.5%	50 - 150	Q,R	
Acephate	0.000	0.692	0.696	0.800	0.6%	< 30	86.5%	87.0%	50 - 150		
Acequinocyl	0.000	4.694	10.965	4.000	80.1%	< 30	117.4%	274.1%	50 - 150		
Acetamiprid	0.000	0.370	0.367	0.400	0.6%	< 30	92.4%	91.8%	50 - 150		
Aldicarb	0.000	0.713	0.706	0.800	1.0%	< 30	89.2%	88.3%	50 - 150		
Azoxystrobin	0.000	0.319	0.356	0.400	10.9%	< 30	79.7%	88.9%	50 - 150		
Bifenazate	0.000	0.379	0.374	0.400	1.4%	< 30	94.8%	93.5%	50 - 150		
Bifenthrin	0.023	0.271	0.273	0.400	0.9%	< 30	61.9%	62.5%	50 - 150		
Boscalid	0.000	0.704	0.700	0.800	0.6%	< 30	88.1%	87.6%	50 - 150		
Carbaryl	0.000	0.361	0.359	0.400	0.6%	< 30	90.2%	89.7%	50 - 150		
Carbofuran	0.000	0.343	0.345	0.400	0.6%	< 30	85.9%	86.3%	50 - 150		
Chlorantraniliprole	0.000	0.357	0.355	0.400	0.3%	< 30	89.2%	88.9%	50 - 150		
Chlorfenapyr	0.000	1.653	1.744	2.000	5.3%	< 30	82.7%	87.2%	50 - 150		
Chlorpyrifos	0.000	0.356	0.352	0.400	1.2%	< 30	89.1%	88.1%	50 - 150		
Clofentezine	0.000	0.209	0.201	0.400	3.6%	< 30	52.1%	50.3%	50 - 150		
Cyfluthrin	0.000	1.859	1.832	2.000	1.5%	< 30	92.9%	91.6%	30 - 150		
Cypermethrin	0.000	1.680	1.754	2.000	4.3%	< 30	84.0%	87.7%	50 - 150		
Daminozide	0.005	0.628	0.617	2.000	1.8%	< 30	31.2%	30.6%	30 - 150		
Diazinon	0.000	0.343	0.352	0.400	2.7%	< 30	85.6%	88.0%	50 - 150		
Dichlorvos	0.006	1.793	1.771	2.000	1.3%	< 30	89.3%	88.2%	50 - 150		
Dimethoate	0.000	0.368	0.357	0.400	2.9%	< 30	91.9%	89.3%	50 - 150		
Ethoprophos	0.000	0.356	0.354	0.400	0.6%	< 30	89.1%	88.5%	50 - 150		
Etofenprox	0.062	0.542	0.559	0.800	3.5%	< 30	60.0%	62.2%	50 - 150		
Etoxazole	0.002	0.333	0.336	0.400	0.9%	< 30	82.8%	83.5%	50 - 150		
Fenoxycarb	0.000	0.357	0.358	0.400	0.1%	< 30	89.4%	89.5%	50 - 150		
Fenpyroximate	0.016	0.673	0.677	0.800	0.7%	< 30	82.1%	82.6%	50 - 150		
Fipronil	0.000	0.722	0.718	0.800	0.5%	< 30	90.3%	89.8%	50 - 150		
Flonicamid	0.000	0.891	0.890	1.000	0.2%	< 30	89.1%	89.0%	50 - 150		
Fludioxonil	0.000	0.726	0.714	0.800	1.6%	< 30	90.7%	89.3%	50 - 150		
Hexythiazox	0.001	0.917	0.921	1.000	0.4%	< 30	91.6%	92.0%	50 - 150		
Imazalil	0.000	0.368	0.361	0.400	2.1%	< 30	92.1%	90.1%	50 - 150		
Imidacloprid	0.077	0.760	0.764	0.800	0.5%	< 30	85.4%	85.9%	50 - 150		
Kresoxim-methyl	0.002	0.713	0.703	0.800	1.4%	< 30	88.9%	87.6%	50 - 150		
Malathion	0.000	0.365	0.358	0.400	1.9%	< 30	91.2%	89.5%	50 - 150		
Metalaxyl	0.000	0.359	0.364	0.400	1.3%	< 30	89.7%	90.9%	50 - 150		
Methiocarb	0.000	0.361	0.356	0.400	1.5%	< 30	90.3%	89.0%	50 - 150		
Methomyl	0.000	0.712	0.705	0.800	0.9%	< 30	89.0%	88.2%	50 - 150		
MGK-264	0.000	0.353	0.359	0.400	1.8%	< 30	88.3%	89.9%	50 - 150		
Myclobutanil	0.000	0.354	0.348	0.400	1.7%	< 30	88.4%	86.9%	50 - 150		
Naled	0.000	0.846	0.865	1.000	2.2%	< 30	84.6%	86.5%	50 - 150		
Oxamyl	0.000	1.583	1.654	2.000	4.4%	< 30	79.2%	82.7%	50 - 150		
Paclobutrazole	0.000	0.712	0.729	0.800	2.4%	< 30	89.0%	91.1%	50 - 150		
Parathion-Methyl	0.000	0.341	0.394	0.400	14.3%	< 30	85.4%	98.5%	30 - 150		
Permethrin	0.000	0.317	0.304	0.400	4.0%	< 30	79.2%	76.1%	50 - 150		
Phosmet	0.000	0.356	0.359	0.400	0.9%	< 30	89.0%	89.8%	50 - 150		
Piperonyl butoxide	0.000	1.799	1.872	2.000	4.0%	< 30	89.9%	93.6%	50 - 150		
Prallethrin	0.000	0.352	0.349	0.400	0.8%	< 30	88.1%	87.4%	50 - 150		
Propiconazole	0.000	0.708	0.721	0.800	1.9%	< 30	88.4%	90.2%	50 - 150		
Propoxur	0.000	0.353	0.346	0.400	1.8%	< 30	88.2%	86.6%	50 - 150		
Pyrethrin (Summe)	0.000	0.396	0.420	0.488	6.0%	< 30	81.0%	86.0%	50 - 150		
Pyridaben	0.009	0.324	0.331	0.400	2.0%	< 30	79.0%	80.5%	50 - 150		
Spinosad	0.000	0.340	0.342	0.388	0.6%	< 30	87.6%	88.1%	50 - 150		
Spiromesifen	0.000	0.356	0.356	0.400	0.1%	< 30	89.0%	89.0%	50 - 150		
Spirotetramat	0.000	0.357	0.359	0.400	0.5%	< 30	89.3%	89.7%	50 - 150		
Spiroxamine	0.000	0.708	0.708	0.800	0.0%	< 30	88.5%	88.5%	50 - 150		





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.