



Product identity: Pets 250mg HDTO-1305, 1309, 1310, 1320
Laboratory ID: 19-011167-0003

Client/Metric ID: .
Sample Date: 09/12/19 13:00

Summary

Potency:

Analyte	Result	Limits	Units		
CBC†	0.00396		%		CBD-Total (%) 0.970%
CBD	0.970		%		
CBDV†	0.00474		%		CBD-Total per 1ml 10.6 mg/1ml
					CBD-Total per 30ml 317 mg/30ml
					THC-Total (%) < LOQ
Analyte per 1ml	Result	Limits	Units		
CBC per 1ml†	0.0432		mg/1ml		
CBD per 1ml	10.6		mg/1ml		
CBDV per 1ml†	0.0517		mg/1ml		
Analyte per 30ml	Result	Limits	Units		
CBC per 30ml†	1.29		mg/30ml		
CBD per 30ml	317		mg/30ml		
CBDV per 30ml†	1.55		mg/30ml		

Serving size: 1ml
Servings per container: 30

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.



Customer: Sentia Wellness
3931 NE Columbia Blvd
Portland Oregon 97211
United States

Product identity: Pets 250mg HDTO-1305, 1309, 1310, 1320

Client/Metric ID: .

Sample Date: 09/12/19 13:00

Laboratory ID: 19-011167-0003

Relinquished by: Sentia Wellness

Temp: 24.3 °C

Serving Size #1: 1.09 g

Serving Size #2: 32.7 g

Sample Results

Potency		Batch: 1908402					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC [†]	0.00396		%	0.0032	09/18/19	J AOAC 2015 V98-6	
CBC-A [†]	< LOQ		%	0.0032	09/18/19	J AOAC 2015 V98-6	
CBC-Total [†]	< LOQ		%	0.0060	09/23/19	J AOAC 2015 V98-6	
CBD	0.970		%	0.0320	09/18/19	J AOAC 2015 V98-6	
CBD-A	< LOQ		%	0.0032	09/18/19	J AOAC 2015 V98-6	
CBD-Total	0.970		%	0.0348	09/23/19	J AOAC 2015 V98-6	
CBDV [†]	0.00474		%	0.0032	09/18/19	J AOAC 2015 V98-6	
CBDV-A [†]	< LOQ		%	0.0032	09/18/19	J AOAC 2015 V98-6	
CBDV-Total [†]	< LOQ		%	0.0060	09/23/19	J AOAC 2015 V98-6	
CBG [†]	< LOQ		%	0.0032	09/18/19	J AOAC 2015 V98-6	
CBG-A [†]	< LOQ		%	0.0032	09/18/19	J AOAC 2015 V98-6	
CBG-Total [†]	< LOQ		%	0.0060	09/23/19	J AOAC 2015 V98-6	
CBL [†]	< LOQ		%	0.0032	09/18/19	J AOAC 2015 V98-6	
CBN	< LOQ		%	0.0032	09/18/19	J AOAC 2015 V98-6	
Δ8-THC [†]	< LOQ		%	0.0032	09/18/19	J AOAC 2015 V98-6	
Δ9-THC	< LOQ		%	0.0032	09/18/19	J AOAC 2015 V98-6	
THC-A	< LOQ		%	0.0032	09/18/19	J AOAC 2015 V98-6	
THC-Total	< LOQ		%	0.0060	09/23/19	J AOAC 2015 V98-6	
THCV [†]	< LOQ		%	0.0032	09/18/19	J AOAC 2015 V98-6	
THCV-A [†]	< LOQ		%	0.0032	09/18/19	J AOAC 2015 V98-6	
THCV-Total [†]	< LOQ		%	0.0060	09/23/19	J AOAC 2015 V98-6	

Potency per 1ml		Batch: 1908402					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 1ml [†]	0.0432		mg/1ml	0.0363	09/23/19	J AOAC 2015 V98-6	
CBC-A per 1ml [†]	< LOQ		mg/1ml	0.0363	09/23/19	J AOAC 2015 V98-6	
CBC-Total per 1ml [†]	< LOQ		mg/1ml	0.0682	09/23/19	J AOAC 2015 V98-6	



Potency per 1ml Batch: 1908402

Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBD per 1ml	10.6		mg/1ml	0.0363	09/23/19	J AOAC 2015 V98-6	
CBD-A per 1ml	< LOQ		mg/1ml	0.0363	09/23/19	J AOAC 2015 V98-6	
CBD-Total per 1ml	10.6		mg/1ml	0.0682	09/23/19	J AOAC 2015 V98-6	
CBDV per 1ml [†]	0.0517		mg/1ml	0.0363	09/23/19	J AOAC 2015 V98-6	
CBDV-A per 1ml [†]	< LOQ		mg/1ml	0.0363	09/23/19	J AOAC 2015 V98-6	
CBDV-Total per 1ml [†]	< LOQ		mg/1ml	0.0678	09/23/19	J AOAC 2015 V98-6	
CBG per 1ml [†]	< LOQ		mg/1ml	0.0363	09/23/19	J AOAC 2015 V98-6	
CBG-A per 1ml [†]	< LOQ		mg/1ml	0.0363	09/23/19	J AOAC 2015 V98-6	
CBG-Total per 1ml [†]	< LOQ		mg/1ml	0.0682	09/23/19	J AOAC 2015 V98-6	
CBL per 1ml [†]	< LOQ		mg/1ml	0.0363	09/23/19	J AOAC 2015 V98-6	
CBN per 1ml	< LOQ		mg/1ml	0.0363	09/23/19	J AOAC 2015 V98-6	
Δ8-THC per 1ml [†]	< LOQ		mg/1ml	0.0363	09/23/19	J AOAC 2015 V98-6	
Δ9-THC per 1ml	< LOQ		mg/1ml	0.0363	09/23/19	J AOAC 2015 V98-6	
THC-A per 1ml	< LOQ		mg/1ml	0.0363	09/23/19	J AOAC 2015 V98-6	
THC-Total per 1ml	< LOQ		mg/1ml	0.0682	09/23/19	J AOAC 2015 V98-6	
THCV per 1ml [†]	< LOQ		mg/1ml	0.0363	09/23/19	J AOAC 2015 V98-6	
THCV-A per 1ml [†]	< LOQ		mg/1ml	0.0363	09/23/19	J AOAC 2015 V98-6	
THCV-Total per 1ml [†]	< LOQ		mg/1ml	0.0678	09/23/19	J AOAC 2015 V98-6	

Potency per 30ml Batch: 1908402

Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 30ml [†]	1.29		mg/30ml	1.09	09/23/19	J AOAC 2015 V98-6	
CBC-A per 30ml [†]	< LOQ		mg/30ml	1.09	09/23/19	J AOAC 2015 V98-6	
CBC-Total per 30ml [†]	< LOQ		mg/30ml	2.05	09/23/19	J AOAC 2015 V98-6	
CBD per 30ml	317		mg/30ml	1.09	09/23/19	J AOAC 2015 V98-6	
CBD-A per 30ml	< LOQ		mg/30ml	1.09	09/23/19	J AOAC 2015 V98-6	
CBD-Total per 30ml	317		mg/30ml	2.05	09/23/19	J AOAC 2015 V98-6	
CBDV per 30ml [†]	1.55		mg/30ml	1.09	09/23/19	J AOAC 2015 V98-6	
CBDV-A per 30ml [†]	< LOQ		mg/30ml	1.09	09/23/19	J AOAC 2015 V98-6	
CBDV-Total per 30ml [†]	< LOQ		mg/30ml	2.03	09/23/19	J AOAC 2015 V98-6	
CBG per 30ml [†]	< LOQ		mg/30ml	1.09	09/23/19	J AOAC 2015 V98-6	
CBG-A per 30ml [†]	< LOQ		mg/30ml	1.09	09/23/19	J AOAC 2015 V98-6	
CBG-Total per 30ml [†]	< LOQ		mg/30ml	2.05	09/23/19	J AOAC 2015 V98-6	
CBL per 30ml [†]	< LOQ		mg/30ml	1.09	09/23/19	J AOAC 2015 V98-6	
CBN per 30ml	< LOQ		mg/30ml	1.09	09/23/19	J AOAC 2015 V98-6	
Δ8-THC per 30ml [†]	< LOQ		mg/30ml	1.09	09/23/19	J AOAC 2015 V98-6	
Δ9-THC per 30ml	< LOQ		mg/30ml	1.09	09/23/19	J AOAC 2015 V98-6	
THC-A per 30ml	< LOQ		mg/30ml	1.09	09/23/19	J AOAC 2015 V98-6	
THC-Total per 30ml	< LOQ		mg/30ml	2.05	09/23/19	J AOAC 2015 V98-6	
THCV per 30ml [†]	< LOQ		mg/30ml	1.09	09/23/19	J AOAC 2015 V98-6	
THCV-A per 30ml [†]	< LOQ		mg/30ml	1.09	09/23/19	J AOAC 2015 V98-6	
THCV-Total per 30ml [†]	< LOQ		mg/30ml	2.03	09/23/19	J AOAC 2015 V98-6	

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Pixis quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be kept a maximum of 15 days from the report date unless prior arrangements have been made.



Solvents						Method EPA5021A						Units µg/g		Batch 1908417		Analyze 09/19/19 11:58 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	< LOQ		200										
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass									
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< 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	30.0	pass									
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass									
Isopropylbenzene	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200										
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	200	pass									
Methylpropane	< 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	< LOQ	2170	600	pass									



Pesticides		Method AOAC 2007.01 & EN 15662 (mod)				Units mg/kg	Batch 1908433	Analyze 09/19/19 02:35 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.100	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 (incl.	< 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		Fonicamid	< LOQ	1.0	0.400	pass	
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass	
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass	
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass	
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass	
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass	
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass	
Oxamyl	< LOQ	1.0	0.500	pass		Paclobutrazole	< LOQ	0.40	0.200	pass	
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100	pass	
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00	pass	
Prallethrin	< LOQ	0.20	0.100	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							

This sample was selected and submitted by the client. Test results are representative of the individual sample.



Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

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.

† = Analyte not NELAP accredited.

Units of Measure

g = Gram

µg/g = Microgram per gram

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

mg/1.09g = Milligram per 1.09g

mg/32.7g = Milligram per 32.7g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

19-011167

ORELAP ID: OR100028

Company: Sentia Wellness		Analysis Requested							Purchase Order Number: _____			
Contact: Erin Harbacek									Matrix			Weight
Address: 3931 NE Columbia Blvd		Pesticides	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Microbiology	Metals	Project Name: _____		
Email: erin.harbacek@sentiawellness.com										<input type="checkbox"/> Report Instructions: <input type="checkbox"/> Send to State - METRC <input type="checkbox"/> Email Final Results: <input type="checkbox"/> Fax Final Results <input type="checkbox"/> Cash/Check/CC/Net 30 Other: _____		
Phone: 785-280-1576 Fax: _____										Processor's License: _____		
Field ID	Date/Time Collected											
Social 375mg Drops Unflavored	9/12/19 1PM	X	X	X						Drops	8g	Customer Facing Panel
HDTO-1306												
Social 1500mg Drop Unflavored	9/12/19 1PM	X	X	X						Drops	4g	Customer Facing Panel
HDTO-1307												
Pets 250mg HDTO-1305, 1309, 1310, 1320	9/13/19 1PM	X	X	X						Drops	10g	Customer Facing Panel
Pets 500mg HDTO-1308, 1311, 1312, 1313	9/13/19 1PM	X	X	X						Drops	8g	Customer Facing Panel
Collected By: _____		Relinquished By: _____		Date	Time	Received By: _____		Date	Time	Labs Use Only:		
<input type="checkbox"/> Standard 5 day <input type="checkbox"/> Rush (1.5 x Standard) <input type="checkbox"/> Priority Rush (2 x Standard) Ask About Availability		9/16 11:45AM		9/16	11:45AM	9/16/19 11:45				Client Alias: _____ Order Number: _____ <input checked="" type="checkbox"/> Proper Container <input checked="" type="checkbox"/> Sample Condition <input checked="" type="checkbox"/> Temperature <input checked="" type="checkbox"/> Shipped Via: <i>Client</i> Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Pixis quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be kept a maximum of 15 days from the report date unless prior arrangements have been made.



Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 1908402**

Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits			Evaluation	Notes
CBDV-A	0.00922	0.01	%	92.2	85	-	115	Acceptable	
CBDV	0.00945	0.01	%	94.5	85	-	115	Acceptable	
CBD-A	0.00904	0.01	%	90.4	85	-	115	Acceptable	
CBG-A	0.00926	0.01	%	92.6	85	-	115	Acceptable	
CBG	0.00935	0.01	%	93.5	85	-	115	Acceptable	
CBD	0.00935	0.01	%	93.5	85	-	115	Acceptable	
THCV	0.00942	0.01	%	94.2	85	-	115	Acceptable	
THCVA	0.00923	0.01	%	92.3	85	-	115	Acceptable	
CBN	0.00942	0.01	%	94.2	85	-	115	Acceptable	
THC	0.00931	0.01	%	93.1	85	-	115	Acceptable	
D8THC	0.00947	0.01	%	94.7	85	-	115	Acceptable	
CBL	0.00911	0.01	%	91.1	85	-	115	Acceptable	
CBC	0.00964	0.01	%	96.4	85	-	115	Acceptable	
THCA	0.00912	0.01	%	91.2	85	-	115	Acceptable	
CBCA	0.00923	0.01	%	92.3	85	-	115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits			Evaluation	Notes
CBDV-A	ND	0.003	%	< 0.003			Acceptable	
CBDV	ND	0.003	%	< 0.003			Acceptable	
CBD-A	ND	0.003	%	< 0.003			Acceptable	
CBG-A	ND	0.003	%	< 0.003			Acceptable	
CBG	ND	0.003	%	< 0.003			Acceptable	
CBD	ND	0.003	%	< 0.003			Acceptable	
THCV	ND	0.003	%	< 0.003			Acceptable	
THCVA	ND	0.003	%	< 0.003			Acceptable	
CBN	ND	0.003	%	< 0.003			Acceptable	
THC	ND	0.003	%	< 0.003			Acceptable	
D8THC	ND	0.003	%	< 0.003			Acceptable	
CBL	ND	0.003	%	< 0.003			Acceptable	
CBC	ND	0.003	%	< 0.003			Acceptable	
THCA	ND	0.003	%	< 0.003			Acceptable	
CBCA	ND	0.003	%	< 0.003			Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



J AOAC 2015 V98-6		Batch ID: 1908402						
Sample Duplicate		Sample ID: 19-011026-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBDV	0.00804	0.00848	0.003	%	5.33	< 20	Acceptable	
CBD-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG	0.0765	0.0757	0.003	%	1.05	< 20	Acceptable	
CBD	1.64	1.65	0.003	%	0.608	< 20	Acceptable	
THCV	0.0165	0.0170	0.003	%	2.99	< 20	Acceptable	
THCVA	ND	ND	0.003	%	0	< 20	Acceptable	
CBN	ND	ND	0.003	%	0	< 20	Acceptable	
THC	1.78	1.79	0.003	%	0.560	< 20	Acceptable	
D8THC	ND	ND	0.003	%	0	< 20	Acceptable	
CBL	ND	ND	0.003	%	0	< 20	Acceptable	
CBC	0.0930	0.0931	0.003	%	0.107	< 20	Acceptable	
THCA	ND	ND	0.003	%	0	< 20	Acceptable	
CBCA	ND	ND	0.003	%	0	< 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

EPA 5021				Batch ID: 1908417						
Method Blank				Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes	
Propane	ND	< 200		1520	1200	µg/g	126.7	70 - 130		
Isobutane	ND	< 200		1920	1570	µg/g	122.3	70 - 130		
Butane	ND	< 200		2010	1570	µg/g	128.0	70 - 130		
2,2-dimethylpropane	ND	< 200		2570	1980	µg/g	129.8	70 - 130		
Methanol	ND	< 200		3010	2400	µg/g	125.4	70 - 130		
Ethylene Oxide	ND	< 30		152	119	µg/g	127.7	70 - 130		
2-Methylbutane	ND	< 200		2900	2400	µg/g	120.8	70 - 130		
n-Pentane	ND	< 200		3080	2380	µg/g	129.4	70 - 130		
Ethanol	ND	< 200		3060	2400	µg/g	127.5	70 - 130		
Ethyl Ether	ND	< 200		3010	2410	µg/g	124.9	70 - 130		
2,2-Dimethylbutane	ND	< 30		741	636	µg/g	116.5	70 - 130		
Acetone	ND	< 200		2810	2390	µg/g	117.6	70 - 130		
Isopropyl alcohol	ND	< 200		2970	2400	µg/g	123.8	70 - 130		
Acetonitrile	ND	< 100		1170	963	µg/g	121.5	70 - 130		
2,3-Dimethylbutane	ND	< 30		639	641	µg/g	99.7	70 - 130		
Dichloromethane	ND	< 200		1150	958	µg/g	120.0	70 - 130		
2-Methylpentane	ND	< 30		404	317	µg/g	127.4	70 - 130		
3-Methylpentane	ND	< 30		413	319	µg/g	129.5	70 - 130		
Hexane	ND	< 30		405	322	µg/g	125.8	70 - 130		
Ethyl acetate	ND	< 200		3080	2410	µg/g	127.8	70 - 130		
2-Butanol	ND	< 200		2900	2400	µg/g	120.8	70 - 130		
Tetrahydrofuran	ND	< 100		1130	965	µg/g	117.1	70 - 130		
Cyclohexane	ND	< 200		2970	2400	µg/g	123.8	70 - 130		
Benzene	ND	< 1		53.3	41.6	µg/g	128.1	70 - 130		
Isopropyl Acetate	ND	< 200		3040	2400	µg/g	126.7	70 - 130		
Heptane	ND	< 200		3050	2400	µg/g	127.1	70 - 130		
1,4-Dioxane	ND	< 100		1210	975	µg/g	124.1	70 - 130		
2-Ethoxyethanol	ND	< 30		2790	2400	µg/g	116.3	70 - 130		
Ethylene Glycol	ND	< 200		914	984	µg/g	92.9	70 - 130		
Toluene	ND	< 200		1170	973	µg/g	120.2	70 - 130		
Ethylbenzene	ND	< 200		2260	1930	µg/g	117.1	70 - 130		
m,p-Xylene	ND	< 200		2250	1930	µg/g	116.6	70 - 130		
o-Xylene	ND	< 200		2230	1930	µg/g	115.5	70 - 130		
Cumene	ND	< 30		379	328	µg/g	115.5	70 - 130		



QC - Sample Duplicate Sample ID: 19-011130-0001

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	
n-Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	2390	2330	200	µg/g	2.5	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isopropyl alcohol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	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	
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	
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	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	200	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	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation
* Screening only
Q1 - Quality Control result biased high. Only non detect samples reported.

Units of Measure:

µg/g - Microgram per gram or ppm
mg/Kg - Milligrams per Kilogram
Aw - Water Activity unit



Revision: 1.00 Control: CFL-C21
Revised: 08/12/2019 Effective: 08/15/2019

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 1908433				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	0.006	< 0.200		0.984	1.000	98.4	69.8 - 117	
Acequinocyl	0.000	< 1.000		3.904	4.000	97.6	72.9 - 135	
Acetamiprid	0.002	< 0.100		0.397	0.400	99.3	81.6 - 116	
Aldicarb	0.000	< 0.200		0.893	0.800	111.6	78.7 - 118	
Abamectin	0.000	< 0.288		1.069	1.000	106.9	81.4 - 113	
Azoxystrobin	0.009	< 0.100		0.389	0.400	97.2	82.3 - 114	
Bifenazate	0.007	< 0.100		0.398	0.400	99.4	84.7 - 115	
Bifenthrin	0.002	< 0.100		0.389	0.400	97.3	82.0 - 113	
Boscalid	0.000	< 0.100		0.832	0.800	104.0	80.6 - 125	
Carbaryl	0.010	< 0.100		0.406	0.400	101.6	85.1 - 113	
Carbofuran	0.012	< 0.100		0.398	0.400	99.4	82.6 - 121	
Chlorantraniliprol	0.009	< 0.100		0.389	0.400	97.1	68.3 - 120	
Chlorfenapyr	0.625	< 1.000		2.124	2.000	106.2	69.1 - 126	
Chlorpyrifos	0.003	< 0.100		0.413	0.400	103.2	80.3 - 113	
Clofentazine	0.026	< 0.100		0.246	0.400	61.5	57.0 - 106	
Cyfluthrin	0.000	< 1.000		2.353	2.000	117.7	82.2 - 118	
Cypermethrin	0.000	< 1.000		2.215	2.000	110.8	85.8 - 108	Q1
Daminozide	0.111	< 1.000		0.745	2.000	37.2	24.9 - 46.2	
Diazinon	0.013	< 0.100		0.401	0.400	100.4	71.3 - 125	
Dichlorvos	0.017	< 0.500		1.996	2.000	99.8	80.5 - 111	
Dimethoat	0.000	< 0.100		0.382	0.400	95.5	85.0 - 109	
Ethoprophos	0.020	< 0.100		0.396	0.400	99.0	88.0 - 111	
Etofenprox	0.018	< 0.100		0.809	0.800	101.2	88.6 - 111	
Etoxazol	0.044	< 0.100		0.394	0.400	98.4	74.9 - 139	
Fenoxycarb	0.017	< 0.100		0.396	0.400	99.0	75.4 - 124	
Fenpyroximat	0.020	< 0.100		0.828	0.800	103.4	85.8 - 113	
Fipronil	0.103	< 0.100		0.755	0.800	94.3	75.9 - 126	
Flonicamid	0.000	< 0.400		0.966	1.000	96.6	77.6 - 116	
Fludioxonil	0.033	< 0.100		0.736	0.800	92.0	80.7 - 111	
Hexythiazox	0.000	< 0.400		0.995	1.000	99.5	75.1 - 118	
Imazalil	0.007	< 0.100		0.408	0.400	102.0	83.0 - 117	
Imidacloprid	0.000	< 0.200		0.771	0.800	96.4	84.7 - 111	
Kresoxim-Methyl	0.031	< 0.100		0.799	0.800	99.9	77.2 - 123	
Malathion	0.007	< 0.100		0.383	0.400	95.8	83.5 - 117	
Metaxalyl	0.003	< 0.100		0.391	0.400	97.7	85.4 - 109	
Methiocarb	0.001	< 0.100		0.396	0.400	99.0	82.0 - 116	
Methomyl	0.000	< 0.200		0.785	0.800	98.1	71.7 - 121	
MGK 264	0.000	< 0.100		0.419	0.400	104.7	80.7 - 120	
Myclobutanil	0.007	< 0.100		0.379	0.400	94.9	84.0 - 114	
Naled	0.025	< 0.200		0.907	1.000	90.7	63.4 - 118	
Oxamyl	0.000	< 0.400		1.885	2.000	94.2	72.6 - 119	
Paclbutrazol	0.028	< 0.200		0.767	0.800	95.9	82.5 - 125	
Parathion Methyl	0.001	< 0.200		0.640	0.800	80.0	72.3 - 134	
Permethrin	0.000	< 0.100		0.390	0.400	97.4	84.9 - 110	
Phosmet	0.007	< 0.100		0.394	0.400	98.4	79.9 - 119	
Piperonyl butoxide	0.019	< 1.000		1.917	2.000	95.8	85.4 - 114	
Prallethrin	0.000	< 0.200		0.422	0.400	105.5	77.7 - 121	
Propiconazole	0.119	< 0.200		0.811	0.800	101.4	80.9 - 115	
Propoxur	0.011	< 0.100		0.406	0.400	101.5	79.1 - 121	
Pyrethrins	0.002	< 0.500		0.300	0.284	105.8	88.3 - 123	
Pyridaben	0.002	< 0.100		0.403	0.400	100.8	78.8 - 119	
Spinosad	0.012	< 0.100		0.409	0.388	105.4	77.6 - 134	
Spiromesifen	0.011	< 0.100		0.427	0.400	106.9	70.6 - 122	
Spirotetramat	0.006	< 0.100		0.404	0.400	100.9	71.8 - 124	
Spiroxamine	0.011	< 0.100		0.792	0.800	99.0	81.3 - 117	
Tebuconazol	0.000	< 0.200		0.783	0.800	97.9	76.1 - 120	
Thiacloprid	0.000	< 0.100		0.414	0.400	103.5	78.7 - 116	
Thiamethoxam	0.009	< 0.100		0.395	0.400	98.7	74.3 - 119	
Trifloxystrobin	0.000	< 0.100		0.435	0.400	108.8	88.0 - 114	

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Revision: 1.00 Control: CFL-C21
Revised: 08/12/2019 Effective: 08/15/2019

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg				Batch ID: 1908433				
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 19-011206-0005								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.000	0.883	0.921	1.000	4.2	< 30	88.3	92.1	50 - 150	
Acequinocyl	0.000	4.554	4.613	4.000	1.3	< 30	113.8	115.3	50 - 150	
Acetamiprid	0.000	0.399	0.396	0.400	0.7	< 30	99.8	99.0	50 - 150	
Aldicarb	0.000	0.853	0.763	0.800	11.1	< 30	106.6	95.4	50 - 150	
Abamectin	0.000	1.050	1.001	1.000	4.8	< 30	105.0	100.1	50 - 150	
Azoxystrobin	0.000	0.423	0.409	0.400	3.4	< 30	105.8	102.3	50 - 150	
Bifenazate	0.000	0.411	0.387	0.400	6.0	< 30	102.7	96.7	50 - 150	
Bifenthrin	0.000	0.426	0.431	0.400	1.0	< 30	106.6	107.6	50 - 150	
Boscalid	0.000	0.866	0.925	0.800	6.6	< 30	108.3	115.6	50 - 150	
Carbaryl	0.000	0.445	0.413	0.400	7.6	< 30	111.3	103.1	50 - 150	
Carbofuran	0.000	0.419	0.351	0.400	17.6	< 30	104.7	87.7	50 - 150	
Chlorantraniliprol	0.000	0.401	0.408	0.400	1.8	< 30	100.3	102.0	50 - 150	
Chlorfenapyr	0.000	1.972	2.460	2.000	22.0	< 30	98.6	123.0	50 - 150	
Chlorpyrifos	0.000	0.412	0.431	0.400	4.7	< 30	102.9	107.8	50 - 150	
Clofentezine	0.000	0.221	0.220	0.400	0.6	< 30	55.4	55.1	50 - 150	
Cyfluthrin	0.000	2.031	2.220	2.000	8.9	< 30	101.6	111.0	30 - 150	
Cypermethrin	0.000	2.227	2.279	2.000	2.3	< 30	111.3	113.9	50 - 150	
Daminozide	0.000	0.773	0.750	2.000	3.0	< 30	38.7	37.5	30 - 150	
Diazinon	0.000	0.441	0.426	0.400	3.5	< 30	110.2	106.4	50 - 150	
Dichlorvos	0.000	1.778	1.685	2.000	5.4	< 30	88.9	84.3	50 - 150	
Dimethoat	0.000	0.369	0.359	0.400	2.7	< 30	92.2	89.8	50 - 150	
Ethoprophos	0.000	0.375	0.361	0.400	3.8	< 30	93.8	90.3	50 - 150	
Etofenprox	0.000	0.893	0.865	0.800	3.2	< 30	111.6	108.1	50 - 150	
Etoxazol	0.000	0.384	0.423	0.400	9.5	< 30	96.1	105.6	50 - 150	
Fenoxycarb	0.000	0.408	0.392	0.400	3.8	< 30	102.0	98.1	50 - 150	
Fenpyroximat	0.000	0.816	0.818	0.800	0.2	< 30	102.1	102.3	50 - 150	
Fipronil	0.000	0.864	0.839	0.800	2.9	< 30	107.9	104.8	50 - 150	
Flonicamid	0.000	1.000	1.014	1.000	1.4	< 30	100.0	101.4	50 - 150	
Fludioxonil	0.000	0.646	0.567	0.800	13.0	< 30	80.7	70.9	50 - 150	
Hexythiazox	0.000	1.204	1.182	1.000	1.9	< 30	120.4	118.2	50 - 150	
Imazalil	0.000	0.409	0.411	0.400	0.4	< 30	102.4	102.8	50 - 150	
Imidacloprid	0.000	0.823	0.822	0.800	0.1	< 30	102.9	102.7	50 - 150	
Kresoxim-Methyl	0.000	0.823	0.829	0.800	0.7	< 30	102.9	103.6	50 - 150	
Malathion	0.000	0.415	0.401	0.400	3.3	< 30	103.7	100.4	50 - 150	
Metalaxyl	0.000	0.393	0.387	0.400	1.5	< 30	98.2	96.7	50 - 150	
Methiocarb	0.000	0.406	0.361	0.400	11.8	< 30	101.6	90.2	50 - 150	
Methomyl	0.000	0.736	0.751	0.800	2.0	< 30	92.0	93.9	50 - 150	
MGK 264	0.000	0.393	0.423	0.400	7.4	< 30	98.3	105.9	50 - 150	
Myclobutanil	0.000	0.392	0.394	0.400	0.6	< 30	98.0	98.6	50 - 150	
Naled	0.000	0.991	0.980	1.000	1.1	< 30	99.1	98.0	50 - 150	
Oxamyl	0.000	1.782	1.830	2.000	2.7	< 30	89.1	91.5	50 - 150	
Paclobutrazol	0.000	0.798	0.784	0.800	1.8	< 30	99.7	98.0	50 - 150	
Parathion Methyl	0.000	0.700	0.792	0.800	12.3	< 30	87.5	99.0	30 - 150	
Permethrin	0.000	0.389	0.389	0.400	0.0	< 30	97.3	97.3	50 - 150	
Phosmet	0.000	0.436	0.447	0.400	2.4	< 30	109.0	111.7	50 - 150	
Piperonyl butoxide	0.000	2.106	1.956	2.000	7.4	< 30	105.3	97.8	50 - 150	
Prallethrin	0.000	0.491	0.495	0.400	0.8	< 30	122.8	123.8	50 - 150	
Propiconazole	0.000	0.861	0.850	0.800	1.3	< 30	107.7	106.2	50 - 150	
Propoxur	0.000	0.405	0.345	0.400	15.9	< 30	101.2	86.3	50 - 150	
Pyrethrins	0.000	0.317	0.306	0.284	3.3	< 30	111.5	107.8	50 - 150	
Pyridaben	0.000	0.452	0.447	0.400	1.1	< 30	113.0	111.7	50 - 150	
Spinosad	0.000	0.487	0.478	0.388	1.9	< 30	125.6	123.2	50 - 150	
Spiromesifen	0.000	0.419	0.433	0.400	3.2	< 30	104.8	108.1	50 - 150	
Spirotetramat	0.000	0.368	0.369	0.400	0.1	< 30	92.1	92.2	50 - 150	
Spiroxamine	0.000	0.800	0.787	0.800	1.7	< 30	100.0	98.3	50 - 150	
Tebuconazol	0.000	0.779	0.784	0.800	0.7	< 30	97.4	98.0	50 - 150	
Thiacloprid	0.000	0.408	0.401	0.400	1.8	< 30	102.1	100.2	50 - 150	
Thiamethoxam	0.000	0.387	0.382	0.400	1.3	< 30	96.7	95.4	50 - 150	
Trifloxystrobin	0.000	0.403	0.400	0.400	0.4	< 30	100.6	100.0	50 - 150	

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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.