

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU GMY.SLP25	BATCH # 221703	LOQ: Limit Of Quantitation LOD: Limit Of Detection 1 g = 10 ⁻³ kg = 10 ³ mg = 10 ⁶ µg 1 mg/kg = 1 ppm = 1000 ppb	
PRODUCT NAME CBD Sleep Gummies	SERVING SIZE 2 Gummies (~10g)		
LABORATORY: Columbia Laboratories	OREGON ACCREDITATION: OR100028		
POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	35.6 mg/serving	3.56 mg/g	0.356 %
Total THC (d9-THC, THCA)	1.36 mg/serving	0.136 mg/g	0.0136 %
Cannabigerol (CBG)	12.7 mg/serving	1.27 mg/g	0.127 %
Cannabinol (CBN)	10.2 mg/serving	1.02 mg/g	0.102 %
Cannabichromene (CBC)	1.45 mg/serving	0.145 mg/g	0.0145 %
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	1.36 mg/serving	0.136 mg/g	0.0136 %
Delta-8-THC (d8-THC)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	<LOQ µg/serving	<LOQ µg/g	10 µg/day ^[1]
Cadmium	<LOQ µg/serving	<LOQ µg/g	4.1 µg/day ^[1]
Lead	<LOQ µg/serving	<LOQ µg/g	3.5 µg/day ^[2]
Mercury	<LOQ µg/serving	<LOQ µg/g	2 µg/day ^[1]
PESTICIDES			REGULATORY ACTION LEVEL
None of the other 59 pesticides tested found above limit of detection in the sample.			10 ppb ^[1]
RESIDUAL SOLVENTS	Results	REGULATORY ACTION LEVEL	
Ethanol	<LOQ	50,000 mg/day	
Heptane	<LOQ	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.

2. US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA. US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA.



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



Report Number: 22-003411/D003.R000
Report Date: 03/31/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/24/22 16:21

Customer: Etz Hayim Holdings
Product identity: FORM-GMY.SLP25-221703
Client/Metric ID: .
Laboratory ID: 22-003411-0002

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g [†]	0.145		mg/1g		CBD Total per 1g 3.56 mg/1g
CBD per 1g	3.56		mg/1g		
CBE per 1g [†]	0.0351		mg/1g		THC-Total per 1g 0.136 mg/1g
CBG per 1g [†]	1.27		mg/1g		
CBN per 1g	1.02		mg/1g		(Reported in milligrams per serving)
CBT per 1g [†]	0.0629		mg/1g		
Δ9 THC per 1g	0.136		mg/1g		

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: 03/24/22 16:21



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

Product identity: FORM-GMY.SLP25-221703

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-003411-0002

Evidence of Cooling: No

Temp: 24.3 °C

Relinquished by: Client

Serving Size #1: 1 g

Sample Results

Potency per 1g					
Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2202695 Analyze: 3/29/22 9:51:00 AM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g [†]	0.145		mg/1g	0.0318	
CBC-A per 1g [†]	< LOQ		mg/1g	0.0318	
CBC-Total per 1g [†]	0.145		mg/1g	0.0598	
CBD per 1g	3.56		mg/1g	0.0318	
CBD-A per 1g	< LOQ		mg/1g	0.0318	
CBD-Total per 1g	3.56		mg/1g	0.0598	
CBDV per 1g [†]	< LOQ		mg/1g	0.0318	
CBDV-A per 1g [†]	< LOQ		mg/1g	0.0318	
CBDV-Total per 1g [†]	< LOQ		mg/1g	0.0595	
CBE per 1g [†]	0.0351		mg/1g	0.0318	
CBG per 1g [†]	1.27		mg/1g	0.0318	
CBG-A per 1g [†]	< LOQ		mg/1g	0.0318	
CBG-Total per 1g [†]	1.27		mg/1g	0.0595	
CBL per 1g [†]	< LOQ		mg/1g	0.0318	
CBL-A per 1g [†]	< LOQ		mg/1g	0.0318	
CBL-Total per 1g [†]	< LOQ		mg/1g	0.0598	
CBN per 1g	1.02		mg/1g	0.0318	
CBT per 1g [†]	0.0629		mg/1g	0.0318	
Δ8-THCV per 1g [†]	< LOQ		mg/1g	0.0318	
Δ8-THC per 1g [†]	< LOQ		mg/1g	0.0318	
Δ9-THC per 1g	0.136		mg/1g	0.0318	
exo-THC per 1g [†]	< LOQ		mg/1g	0.0318	
THC-A per 1g	< LOQ		mg/1g	0.0318	
THC-Total per 1g	0.136		mg/1g	0.0598	
THCV per 1g [†]	< LOQ		mg/1g	0.0318	
THCV-A per 1g [†]	< LOQ		mg/1g	0.0318	
THCV-Total per 1g [†]	< LOQ		mg/1g	0.0598	
Total Cannabinoids per 1g	6.23		mg/1g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2202596	03/27/22	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2202596	03/27/22	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2202597	03/28/22	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2202597	03/28/22	AOAC 2014.05 (RAPID)		X

Solvents Method Residual Solvents by GC/MS Units µg/g Batch 2202735 Analyze 03/30/22 10:54 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-Dimethyl butane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethyl butane	< 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 ^l	< 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) Units mg/kg Batch 2202733 Analyze 03/30/22 10:19 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	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	0.200	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		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	0.200	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	Analyze	Method	Status	Notes	
Arsenic	< LOQ	0.200	mg/kg	0.0199	2202780	03/31/22	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.200	mg/kg	0.0199	2202780	03/31/22	AOAC 2013.06 (mod.)	pass	X	
Lead	< LOQ	0.500	mg/kg	0.0199	2202780	03/31/22	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	0.100	mg/kg	0.00997	2202780	03/31/22	AOAC 2013.06 (mod.)	pass	X	



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These test results are representative of the individual sample selected and submitted by the client.

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.

† = Analyte not NELAP accredited.

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

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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503-254-1794



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

Cannabis Chain of Custody Record

ORELAP ID: OR100028

Field ID		Date/Time Collected	Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metric ID
FORM-GMY.SLP25-221603		3/24 4p	X	X	X					X	X	X			Edible			Parallel Path all Lab/Nat Discount
FORM-GMY.SLP25-221703		3/24 4p	X	X	X					X	X	X			Edible			
FORM-GMY.SLA5-221503		3/24 4p	X	X	X					X	X	X			Edible			

Purchase Order Number:
Project Number:
Project Name:
 Report Instructions:
 Send to State - METRC
 Email Final Results:
 Fax Final Results
 Cash/Check/CC/Net 30
Other:

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)							Client Alias:
<input type="checkbox"/> Rush (3-4 day) (1.5x Standard)							Order Number:
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Proper Container <input checked="" type="checkbox"/>
							Sample Condition <input checked="" type="checkbox"/>
							Temperature: 24.3
							Shipped Via:
							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

Revision: 1.02 Control#: CF023
Effective 01/31/2019 Revised 01/31/2019

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Report Number: 22-003411/D003.R000
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Revision 1 Document D 7148
Legacy D Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2202695								
Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	0.0342	0.033	%	102	80.0 - 120	Acceptable		
CBDV	0.0364	0.033	%	109	80.0 - 120	Acceptable		
CBE	0.0337	0.033	%	101	80.0 - 120	Acceptable		
CBDA	0.0339	0.033	%	102	80.0 - 120	Acceptable		
CBGA	0.0332	0.033	%	99.6	80.0 - 120	Acceptable		
CBG	0.0336	0.033	%	101	80.0 - 120	Acceptable		
CBD	0.0337	0.033	%	101	80.0 - 120	Acceptable		
THCV	0.0341	0.033	%	102	80.0 - 120	Acceptable		
d8THCV	0.0356	0.033	%	107	80.0 - 120	Acceptable		
THCVA	0.0326	0.033	%	97.9	80.0 - 120	Acceptable		
CBN	0.0346	0.033	%	104	80.0 - 120	Acceptable		
exo-THC	0.0325	0.033	%	97.4	80.0 - 120	Acceptable		
d9THC	0.0337	0.033	%	101	80.0 - 120	Acceptable		
d8THC	0.0342	0.033	%	103	80.0 - 120	Acceptable		
CBL	0.0316	0.033	%	94.7	80.0 - 120	Acceptable		
CBC	0.0355	0.033	%	107	80.0 - 120	Acceptable		
THCA	0.0328	0.033	%	98.5	80.0 - 120	Acceptable		
CBCA	0.0329	0.033	%	98.8	80.0 - 120	Acceptable		
CBLA	0.0329	0.033	%	98.8	80.0 - 120	Acceptable		
CBT	0.0319	0.033	%	95.8	80.0 - 120	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes	
CBDVA	< LOQ	0.003	%	< 0.003	Acceptable		
CBDV	< LOQ	0.003	%	< 0.003	Acceptable		
CBE	< LOQ	0.003	%	< 0.003	Acceptable		
CBDA	< LOQ	0.003	%	< 0.003	Acceptable		
CBGA	< LOQ	0.003	%	< 0.003	Acceptable		
CBG	< LOQ	0.003	%	< 0.003	Acceptable		
CBD	< LOQ	0.003	%	< 0.003	Acceptable		
THCV	< LOQ	0.003	%	< 0.003	Acceptable		
d8THCV	< LOQ	0.003	%	< 0.003	Acceptable		
THCVA	< LOQ	0.003	%	< 0.003	Acceptable		
CBN	< LOQ	0.003	%	< 0.003	Acceptable		
exo-THC	< LOQ	0.003	%	< 0.003	Acceptable		
d9THC	< LOQ	0.003	%	< 0.003	Acceptable		
d8THC	< LOQ	0.003	%	< 0.003	Acceptable		
CBL	< LOQ	0.003	%	< 0.003	Acceptable		
CBC	< LOQ	0.003	%	< 0.003	Acceptable		
THCA	< LOQ	0.003	%	< 0.003	Acceptable		
CBCA	< LOQ	0.003	%	< 0.003	Acceptable		
CBLA	< LOQ	0.003	%	< 0.003	Acceptable		
CBT	< LOQ	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



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Revision 1 Document D 7148
Legacy D Workshee Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2202695								
Sample Duplicate								
Sample D 22-003410-0001								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBE	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBG	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.518	0.506	0.003	%	2.27	< 20	Acceptable	
THCV	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBN	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBL	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
THCA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBT	< LOQ	< LOQ	0.003	%	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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Rev so 3 Docume D 3 20
 Legacy D C L C2 Wo ks ee Va da ed 0/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Laboratory Control Sample		Batch ID: 2202733		
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		1.565	1.000	156.5	70.3	Q1
Acephate	0.000	< 0.250		0.966	1.000	96.6	63.9	119
Acequinocyl	0.000	< 1.000		3.728	4.000	93.2	74.4	136
Acetamiprid	0.000	< 0.100		0.408	0.400	102.1	76.1	141
Aldicarb	0.000	< 0.200		0.798	0.800	99.7	74.6	139
Azoxystrobin	0.000	< 0.100		0.404	0.400	101.1	74.0	137
Bifenazate	0.000	< 0.100		0.392	0.400	98.1	74.2	138
Bifenthrin	0.000	< 0.100		0.392	0.400	98.0	71.0	132
Boscalid	0.000	< 0.200		0.834	0.800	104.2	73.3	136
Carbaryl	0.000	< 0.100		0.399	0.400	99.6	75.1	136
Carbofuran	0.000	< 0.100		0.405	0.400	101.3	73.8	137
Chlorantranilprole	0.000	< 0.100		0.395	0.400	98.8	88.5	164
Chlorfenapyr	0.000	< 0.500		1.830	2.000	91.5	76.2	141
Chlorpyrifos	0.000	< 0.100		0.335	0.400	83.9	72.9	135
Clofentazine	0.000	< 0.100		0.116	0.400	29.0	45.6	84.7
Cyfluthrin	0.000	< 0.500		1.919	2.000	95.9	73.6	137
Cypermethrin	0.000	< 0.500		1.900	2.000	95.0	74.0	138
Daminozide	0.000	< 0.500		0.695	2.000	34.7	26.0	48.2
Diazinon	0.000	< 0.100		0.390	0.400	97.4	76.4	142
Dichlorvos	0.000	< 0.500		2.197	2.000	109.8	80.2	149
Dimethoate	0.000	< 0.100		0.403	0.400	100.8	75.1	138
Ethoprophos	0.000	< 0.100		0.406	0.400	101.5	74.8	139
Etofenprox	0.000	< 0.200		0.750	0.800	93.8	73.5	137
Etoxazole	0.000	< 0.100		0.374	0.400	93.6	78.1	145
Fenoxycarb	0.000	< 0.100		0.386	0.400	96.6	72.7	135
Fenpyroximate	0.000	< 0.200		0.774	0.800	96.8	74.0	137
Fipronil	0.000	< 0.200		0.807	0.800	100.8	76.0	141
Flonicamid	0.000	< 0.250		0.883	1.000	88.3	80.1	139
Fludioxonil	0.000	< 0.200		0.717	0.800	89.6	74.8	139
Hexythiazox	0.000	< 0.250		0.978	1.000	97.8	73.0	135
Imazalil	0.000	< 0.100		0.387	0.400	96.7	70.3	131
Imidacloprid	0.000	< 0.200		0.745	0.800	93.1	77.2	133
Kresoxim methyl	0.000	< 0.200		0.782	0.800	97.7	73.4	136
Malathion	0.000	< 0.100		0.389	0.400	97.2	73.7	137
Metaxyl	0.000	< 0.100		0.396	0.400	99.1	76.3	133
Methiocarb	0.000	< 0.100		0.390	0.400	97.5	75.3	140
Methomyl	0.000	< 0.200		0.763	0.800	95.4	70.7	131
MGK 264	0.000	< 0.100		0.381	0.400	95.2	75.6	140
Myclobutanil	0.000	< 0.100		0.390	0.400	97.4	72.8	135
Naled	0.000	< 0.250		0.375	1.000	37.5	43.4	80.6
Oxamyl	0.000	< 0.500		1.862	2.000	93.1	72.5	135
Paclobutrazole	0.000	< 0.200		0.788	0.800	98.6	72.3	134
Parathion Methyl	0.000	< 0.200		0.819	0.800	102.4	69.0	128
Permethrin	0.000	< 0.100		0.387	0.400	96.9	73.0	135
Phosmet	0.000	< 0.100		0.401	0.400	100.2	72.3	134
Piperonyl butoxide	0.000	< 0.500		2.133	2.000	106.6	77.6	138
Prallethrin	0.000	< 0.100		0.407	0.400	101.7	71.1	132
Propiconazole	0.000	< 0.200		0.785	0.800	98.1	73.6	137
Propoxur	0.000	< 0.100		0.394	0.400	98.4	74.1	138
Pyrethrin (Summe)	0.000	< 0.100		0.403	0.413	97.6	59.0	110
Pyridaben	0.000	< 0.100		0.389	0.400	97.2	73.4	136
Spinosad	0.000	< 0.100		0.372	0.388	95.9	76.6	142
Spiromesifen	0.000	< 0.100		0.394	0.400	98.4	73.8	137
Spirotetramat	0.000	< 0.100		0.372	0.400	93.1	72.7	135
Spiroxamine	0.000	< 0.200		0.796	0.800	99.6	73.0	135
ebuconazole	0.000	< 0.200		0.766	0.800	95.8	72.2	134
hiacloprid	0.000	< 0.100		0.393	0.400	98.2	72.7	135
hiamethoxam	0.000	< 0.100		0.385	0.400	96.3	72.0	134
rifloxystrobin	0.000	< 0.100		0.373	0.400	93.2	74.6	139



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2202733			
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 22-003410-0001								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	1.369	1.324	1.000	3.4%	< 30	136.9%	132.4%	50 150	
Acephate	0.003	1.168	1.125	1.000	3.8%	< 30	116.5%	112.2%	50 150	
Acequinocyl	0.000	5.252	5.758	4.000	9.2%	< 30	131.3%	143.9%	50 150	
Acetamiprid	0.000	0.508	0.504	0.400	0.8%	< 30	127.0%	126.0%	50 150	
Aldicarb	0.000	0.952	0.956	0.800	0.4%	< 30	119.0%	119.5%	50 150	
Azoxystrobin	0.004	0.454	0.481	0.400	5.8%	< 30	112.3%	119.1%	50 150	
Bifenazate	0.000	0.403	0.406	0.400	0.7%	< 30	100.7%	101.4%	50 150	
Bifenthrin	0.000	0.467	0.531	0.400	12.9%	< 30	116.7%	132.8%	50 150	
Boscalid	0.000	0.737	0.768	0.800	4.1%	< 30	92.1%	96.0%	50 150	
Carbaryl	0.000	0.521	0.523	0.400	0.4%	< 30	130.2%	130.8%	50 150	
Carbofuran	0.000	0.531	0.536	0.400	0.8%	< 30	132.9%	133.9%	50 150	
Chlorantraniliprole	0.000	0.388	0.360	0.400	7.3%	< 30	96.9%	90.1%	50 150	
Chlorfenapyr	0.000	2.016	2.258	2.000	11.3%	< 30	100.8%	112.9%	50 150	
Chlorpyrifos	0.000	0.308	0.299	0.400	3.1%	< 30	77.1%	74.7%	50 150	
Clofentazine	0.000	0.189	0.203	0.400	7.5%	< 30	47.2%	50.8%	50 150	q
Cyfluthrin	0.000	2.624	2.575	2.000	1.9%	< 30	131.2%	128.8%	30 150	
Cypermethrin	0.064	2.430	2.268	2.000	7.1%	< 30	118.3%	110.2%	50 150	
Daminozide	0.020	1.120	1.112	2.000	0.8%	< 30	55.0%	54.6%	30 150	
Diazinon	0.000	0.408	0.422	0.400	3.3%	< 30	102.1%	105.5%	50 150	
Dichlorvos	0.000	2.357	2.347	2.000	0.4%	< 30	117.9%	117.3%	50 150	
Dimethoate	0.000	0.485	0.485	0.400	0.1%	< 30	121.3%	121.2%	50 150	
Ethoprophos	0.000	0.426	0.445	0.400	4.3%	< 30	106.5%	111.2%	50 150	
Etofenprox	0.000	0.967	1.006	0.800	3.9%	< 30	120.9%	125.8%	50 150	
Etoxazole	0.000	0.453	0.463	0.400	2.1%	< 30	113.2%	115.7%	50 150	
Fenoxycarb	0.000	0.409	0.411	0.400	0.5%	< 30	102.3%	102.8%	50 150	
Fenpyroximate	0.000	0.747	0.754	0.800	0.8%	< 30	93.4%	94.2%	50 150	
Fipronil	0.000	1.052	1.042	0.800	0.9%	< 30	131.5%	130.2%	50 150	
Flonicamid	0.000	0.711	0.581	1.000	20.1%	< 30	71.1%	58.1%	50 150	
Fludioxonil	0.000	0.741	0.688	0.800	7.5%	< 30	92.6%	86.0%	50 150	
Hexythiazox	0.000	1.427	1.393	1.000	2.4%	< 30	142.7%	139.3%	50 150	
Imazalil	0.000	0.487	0.486	0.400	0.1%	< 30	121.7%	121.5%	50 150	
Imidacloprid	0.000	0.631	0.565	0.800	11.1%	< 30	78.9%	70.6%	50 150	
Kresoxim methyl	0.000	0.822	0.806	0.800	2.0%	< 30	102.8%	100.7%	50 150	
Malathion	0.000	0.430	0.445	0.400	3.6%	< 30	107.4%	111.4%	50 150	
Metaxyl	0.000	0.441	0.450	0.400	2.1%	< 30	110.2%	112.5%	50 150	
Methiocarb	0.000	0.440	0.424	0.400	3.7%	< 30	109.9%	106.0%	50 150	
Methomyl	0.000	0.836	0.699	0.800	17.9%	< 30	104.6%	87.4%	50 150	
MGK 264	0.000	0.402	0.390	0.400	3.1%	< 30	100.6%	97.6%	50 150	
Myclobutanil	0.000	0.377	0.385	0.400	2.1%	< 30	94.2%	96.2%	50 150	
Naled	0.000	1.229	1.267	1.000	3.0%	< 30	122.9%	126.7%	50 150	
Oxamyl	0.000	2.244	1.923	2.000	15.4%	< 30	112.2%	96.1%	50 150	
Paclobutrazole	0.000	0.844	0.841	0.800	0.4%	< 30	105.5%	105.1%	50 150	
Parathion Methyl	0.000	0.960	1.081	0.800	11.9%	< 30	120.0%	135.1%	30 150	
Permethrin	0.000	0.404	0.384	0.400	5.1%	< 30	101.1%	96.1%	50 150	
Phosmet	0.000	0.416	0.420	0.400	1.0%	< 30	103.9%	105.0%	50 150	
Piperonyl butoxide	0.000	2.645	2.350	2.000	11.8%	< 30	132.2%	117.5%	50 150	
Prallethrin	0.000	0.582	0.540	0.400	7.5%	< 30	145.5%	134.9%	50 150	
Propiconazole	0.000	0.780	0.804	0.800	3.1%	< 30	97.5%	100.5%	50 150	
Propoxur	0.000	0.475	0.486	0.400	2.3%	< 30	118.8%	121.6%	50 150	
Pyrethrin (Summe)	0.000	0.392	0.388	0.413	1.2%	< 30	95.0%	93.8%	50 150	
Pyridaben	0.000	0.556	0.529	0.400	5.0%	< 30	139.1%	132.2%	50 150	
Spinosad	0.000	0.446	0.450	0.388	0.8%	< 30	114.9%	115.9%	50 150	
Spiromesifen	0.000	0.913	0.913	0.400	0.0%	< 30	228.2%	228.2%	50 150	q
Spirotetramat	0.000	0.279	0.280	0.400	0.4%	< 30	69.6%	69.9%	50 150	
Spiroxamine	0.000	0.896	0.923	0.800	3.0%	< 30	112.0%	115.4%	50 150	
ebuconazole	0.000	0.723	0.736	0.800	1.8%	< 30	90.4%	92.1%	50 150	
hiacloprid	0.000	0.471	0.470	0.400	0.2%	< 30	117.9%	117.6%	50 150	
hiamethoxam	0.000	0.315	0.270	0.400	15.4%	< 30	78.8%	67.5%	50 150	
rifloxystrobin	0.000	0.403	0.400	0.400	0.8%	< 30	100.7%	100.0%	50 150	



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Revision Document ID
Legacy ID Effective

Laboratory Quality Control Results

Batch ID: 2202735

Residual Solvents		Method Blank		Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	200		56	5.2	µg/g	98.6	60	20
Isobutane	ND	200		62	3	µg/g	85	60	20
Butane	ND	200		6	3	µg/g	83.6	60	20
2,2-Dimethylpropane	ND	200		99	936	µg/g	06.5	60	20
Methanol	ND	200		5.0	620	µg/g	93.2	60	20
Ethylene Oxide	ND	30		5	56.2	µg/g	90	60	20
2-Methylbutane	ND	200		590	620	µg/g	98	60	20
Pentane	ND	200		580	6.0	µg/g	98	60	20
Ethanol	ND	200		680	630	µg/g	03	0	0
Ethyl Ether	ND	200		5.0	620	µg/g	93.2	60	20
2,2-Dimethylbutane	ND	30		35		µg/g	9.9	60	20
Acetone	ND	200		20	650	µg/g	86	60	20
2-Propanol	ND	200		90	6.0	µg/g	92.5	60	20
Acetonitrile	ND	00		6	98	µg/g	93.8	60	20
2,3-Dimethylbutane	ND	30		3	6	µg/g	8.3	60	20
Dichloromethane	ND	60			5.0	µg/g	92	60	20
2-Methylpentane	ND	30		5	6	µg/g	8.5	60	20
3-Methylpentane	ND	30		80	5	µg/g	02.9	60	20
Hexane	ND	30		3		µg/g	9	60	20
Ethyl acetate	ND	200		620	630	µg/g	99	60	20
2-Butanol	ND	200		5.0	620	µg/g	95	60	20
Tetrahydrofuran	ND	00		86	500	µg/g	9.2	60	20
Cyclohexane	ND	200		520	620	µg/g	93.8	60	20
Benzene	ND			5	5.32	µg/g	95.9	60	20
Isopropyl Acetate	ND	200		660	620	µg/g	02.5	60	20
Heptane	ND	200		6.0	0	µg/g	9	60	20
Dioxane	ND	00		0	50	µg/g	93.3	60	20
2-Ethoxyethanol	ND	30		93	8	µg/g	06.6	60	20
Ethylene Glycol	ND	200		55	9	µg/g	2	60	20
o-xylene	ND	200		9	9	µg/g	00.6	60	20
Ethyl benzene	ND	200		9.6	9.3	µg/g	00.3	60	20
m,p-Xylene	ND	200		928	996	µg/g	93.2	60	20
o-Xylene	ND	200		020	9.3	µg/g	0.8	60	20
Cumene	ND	30		8	0	µg/g	06.5	60	20



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QC Sample Duplicate Sample ID: 22 002948 0004

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	
Acetonitrile	ND	ND	00	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	
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	200	µg/g	0.0	20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	20	Acceptable	
Benzene	ND	ND	30	µg/g	0.0	20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	20	Acceptable	
Heptane	335	3.8	200	µg/g	3.8	20	Acceptable	
Dioxane	ND	ND	00	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	
o xylene	ND	ND	200	µg/g	0.0	20	Acceptable	
Ethyl benzene	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

Units of Measure:

µg/g Microgram per gram or ppm



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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.