

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU	BATCH #	LOQ: Limit Of Quantitation LOD: Limit Of Detection	
PRODUCT NAME	SERVING SIZE	1 g = 10 ⁻³ kg = 10 ³ mg = 10 ⁶ µg 1 mg/kg = 1 ppm = 1000 ppb	
LABORATORY :	OREGON ACCREDITATION: OR100028		
POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	mg/serving	mg/g	%
Total THC (d9-THC, THCA)	mg/serving	mg/g	%
Cannabigerol (CBG)	mg/serving	mg/g	%
Cannabinol (CBN)	mg/serving	mg/g	%
Cannabichromene (CBC)	mg/serving	mg/g	%
Tetrahydrocannabinolic Acid (THCA)	mg/serving	mg/g	%
Delta-9-THC (d9-THC)	mg/serving	mg/g	%
Delta-8-THC (d8-THC)	mg/serving	mg/g	%
HEAVY METALS	PER SERVING	PER KG	REGULATORY ACTION LEVEL
Arsenic	mg/serving	mg/kg	12.5 mg/kg ^[1]
Cadmium	mg/serving	mg/kg	10 mg/kg ^[1]
Lead	mg/serving	mg/kg	10 mg/kg ^[1]
Mercury	mg/serving	mg/kg	0.267 mg/kg ^[1]
PESTICIDES	REGULATORY ACTION LEVEL		
None of the other 59 pesticides tested found above limit of detection in the sample.			10 ppb ^[2]
RESIDUAL SOLVENTS	Results	REGULATORY ACTION LEVEL	
Ethanol	µg/g	50,000 mg/day	
Heptane	µg/g	50,000 mg/day	
None of the 34 residual solvents tested found above limit of quantitation in the sample.			
MICROBIAL	PASS/FAIL		
Yeast & Mold	Pass		
Coliform	Pass		



1. Deemy, M. Benjamin, L. FDA. (2019). *CVM CY15-17 Report on Heavy Metals in Animal Food*. Retrieved from: <https://www.fda.gov/media/132046/download>

2. American Herbal Pharmacopoeia. (2014). *Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control*. Washington DC: AHP.



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



Report Number: 24-000281/D025.R000
Report Date: 01/19/2024
ORELAP#: OR100028
Purchase Order: 2797832
Received: 01/08/24 16:15

Customer: Etz Hayim Holdings
Product identity: FORM-CHEW.JNT10-GA13
Client/Metric ID: .
Laboratory ID: 24-000281-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	0.149		mg/1g		CBD-Total per Serving Size 1.82 mg/1g
CBD per 1g	1.82		mg/1g		
CBG per 1g	0.0594		mg/1g		THC-Total per Serving Size 0.0616 mg/1g
CBT per 1g	0.0469		mg/1g		
Δ9-THC per 1g	0.0616		mg/1g		(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Analyte	Result	Units	Limit	Status
Arsenic*	0.111	mg/kg	0.200	pass

Microbiology:

Less than LOQ for all analytes.



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Received: 01/08/24 16:15

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

Product identity: FORM-CHEW.JNT10-GA13

Client/Metric ID: .

Sample Date:

Laboratory ID: 24-000281-0001

Evidence of Cooling: No

Temp: 17.8 °C

Relinquished by: client

Serving Size #1: 1 g

Sample Results

Potency per 1g	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2400293	Analyze: 1/11/24 8:17:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	0.149		mg/1g	0.0310	
CBC-A per 1g	< LOQ		mg/1g	0.0310	
CBC-Total per 1g	0.149		mg/1g	0.0582	
CBD per 1g	1.82		mg/1g	0.0310	
CBD-A per 1g	< LOQ		mg/1g	0.0310	
CBD-Total per 1g	1.82		mg/1g	0.0582	
CBDV per 1g	< LOQ		mg/1g	0.0310	
CBDV-A per 1g	< LOQ		mg/1g	0.0310	
CBDV-Total per 1g	< LOQ		mg/1g	0.0579	
CBE per 1g	< LOQ		mg/1g	0.0310	
CBG per 1g	0.0594		mg/1g	0.0310	
CBG-A per 1g	< LOQ		mg/1g	0.0310	
CBG-Total per 1g	0.0594		mg/1g	0.0579	
CBL per 1g	< LOQ		mg/1g	0.0310	
CBL-A per 1g	< LOQ		mg/1g	0.0310	
CBL-Total per 1g	< LOQ		mg/1g	0.0582	
CBN per 1g	< LOQ		mg/1g	0.0310	
CBT per 1g	0.0469		mg/1g	0.0310	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0310	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0310	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0310	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0620	
Δ8-THC per 1g	< LOQ		mg/1g	0.0310	
Δ9-THC per 1g	0.0616		mg/1g	0.0310	
delta-9-THCP per 1g	< LOQ		mg/1g	0.0310	
exo-THC per 1g	< LOQ		mg/1g	0.0310	
THC-A per 1g	< LOQ		mg/1g	0.0310	
THC-Total per 1g	0.0616		mg/1g	0.0582	
THCV per 1g	< LOQ		mg/1g	0.0310	
THCV-A per 1g	< LOQ		mg/1g	0.0310	



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Potency per 1g	Method: J AOAC 2015 V98-6 (mod) ^P	Units mg/se	Batch: 2400293	Analyze: 1/11/24 8:17:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total per 1g	< LOQ		mg/1g	0.0582	
Total Cannabinoids per 1g	2.14		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	100	2400247	01/12/24 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	100	2400247	01/12/24 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	100	2400248	01/13/24 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	100	2400248	01/13/24 AOAC 2014.05 (RAPID) ^P		

Solvents	Method: Residual Solvents by GC/MS ^P	Units µg/g	Batch 2400422	Analyze 01/19/24 01:50 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		Ethanol	< LOQ		200		
Ethyl acetate	< LOQ	5000	200	pass		Ethyl benzene	< LOQ		200		
Ethyl ether	< LOQ	5000	200	pass		Ethylene glycol	< LOQ	620	200	pass	
Ethylene oxide	< LOQ	50.0	20.0	pass		Hexanes (sum)	< LOQ	290	150	pass	
Isopropyl acetate	< LOQ	5000	200	pass		Isopropylbenzene (Cumene)	< LOQ	70.0	30.0	pass	
m,p-Xylene	< LOQ		200			Methanol	< LOQ	3000	200	pass	
Methylene chloride	< LOQ	600	60.0	pass		Methylpropane (Isobutane)	< LOQ		200		
n-Butane	< LOQ		200			n-Heptane	< LOQ	5000	200	pass	
n-Hexane	< LOQ		30.0			n-Pentane	< LOQ		200		
o-Xylene	< LOQ		200			Pentanes (sum)	< LOQ	5000	600	pass	
Propane	< LOQ	5000	200	pass		Tetrahydrofuran	< LOQ	720	100	pass	
Toluene	< LOQ	890	100	pass		Total Xylenes	< LOQ		400		
Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass							



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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod) ^b											
Units mg/kg Batch 2400371 Analyze 01/15/24 02:49 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		Acephate [‡]	< LOQ	0.40	0.200	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 [‡]	< 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		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		Pacllobutrazole [‡]	< 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 [‡]	0.111	0.200	mg/kg	0.0185	2400340	01/12/24	AOAC 2013.06 (mod.) ^b	pass		
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0185	2400340	01/12/24	AOAC 2013.06 (mod.) ^b	pass		
Lead [‡]	< LOQ	0.500	mg/kg	0.0185	2400340	01/12/24	AOAC 2013.06 (mod.) ^b	pass		
Mercury [‡]	< LOQ	0.100	mg/kg	0.00924	2400340	01/12/24	AOAC 2013.06 (mod.) ^b	pass		



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Ⓐ = ISO/IEC 17025:2017 accredited method.

Ⓜ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

g = g

µg/g = Microgram per gram

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

mg/1g = Milligram per 1g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2400293

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0319	0.0329	%	96.9	80.0	- 120	Acceptable	
CBDV	2	0.0291	0.0322	%	90.3	80.0	- 120	Acceptable	
CBE	2	0.0319	0.0350	%	91.0	80.0	- 120	Acceptable	
CBDA	1	0.0317	0.0317	%	100	90.0	- 110	Acceptable	
CBGA	1	0.0311	0.0315	%	98.6	80.0	- 120	Acceptable	
CBG	1	0.0302	0.0309	%	98.0	80.0	- 120	Acceptable	
CBD	1	0.0333	0.0330	%	101	90.0	- 110	Acceptable	
THCV	2	0.0332	0.0352	%	94.5	80.0	- 120	Acceptable	
d8THCV	2	0.0290	0.0307	%	94.4	80.0	- 120	Acceptable	
THCVA	2	0.0300	0.0320	%	93.8	80.0	- 120	Acceptable	
CBN	1	0.0329	0.0330	%	99.5	80.0	- 120	Acceptable	
exo-THC	2	0.0307	0.0313	%	98.1	80.0	- 120	Acceptable	
d9THC	1	0.0336	0.0337	%	99.8	90.0	- 110	Acceptable	
d8THC	1	0.0342	0.0336	%	102	90.0	- 110	Acceptable	
9S-d10THC	1	0.0324	0.0326	%	99.6	80.0	- 120	Acceptable	
CBL	2	0.0322	0.0326	%	98.8	80.0	- 120	Acceptable	
9R-d10THC	1	0.0315	0.0318	%	99.2	80.0	- 120	Acceptable	
CBC	2	0.0322	0.0328	%	98.1	80.0	- 120	Acceptable	
THCA	1	0.0321	0.0322	%	99.5	90.0	- 110	Acceptable	
CBCA	2	0.0330	0.0334	%	98.8	80.0	- 120	Acceptable	
CBLA	2	0.0334	0.0343	%	97.3	80.0	- 120	Acceptable	
d9THCP	2	0.0324	0.0328	%	98.6	80.0	- 120	Acceptable	
CBT	2	0.0328	0.0341	%	96.4	80.0	- 120	Acceptable	

Method Blank							
Analyte	Result	LOQ	Units	Limits		Evaluation	Notes
CBDVA	<LOQ	0.00326	%	< 0.00326		Acceptable	
CBDV	<LOQ	0.00326	%	< 0.00326		Acceptable	
CBE	<LOQ	0.00326	%	< 0.00326		Acceptable	
CBDA	<LOQ	0.00326	%	< 0.00326		Acceptable	
CBGA	<LOQ	0.00326	%	< 0.00326		Acceptable	
CBG	<LOQ	0.00326	%	< 0.00326		Acceptable	
CBD	<LOQ	0.00326	%	< 0.00326		Acceptable	
THCV	<LOQ	0.00326	%	< 0.00326		Acceptable	
d8THCV	<LOQ	0.00326	%	< 0.00326		Acceptable	
THCVA	<LOQ	0.00326	%	< 0.00326		Acceptable	
CBN	<LOQ	0.00326	%	< 0.00326		Acceptable	
exo-THC	<LOQ	0.00326	%	< 0.00326		Acceptable	
d9THC	<LOQ	0.00326	%	< 0.00326		Acceptable	
d8THC	<LOQ	0.00326	%	< 0.00326		Acceptable	
9S-d10THC	<LOQ	0.00326	%	< 0.00326		Acceptable	
CBL	<LOQ	0.00326	%	< 0.00326		Acceptable	
9R-d10THC	<LOQ	0.00326	%	< 0.00326		Acceptable	
CBC	<LOQ	0.00326	%	< 0.00326		Acceptable	
THCA	<LOQ	0.00326	%	< 0.00326		Acceptable	
CBCA	<LOQ	0.00326	%	< 0.00326		Acceptable	
CBLA	<LOQ	0.00326	%	< 0.00326		Acceptable	
d9THCP	<LOQ	0.00326	%	< 0.00326		Acceptable	
CBT	<LOQ	0.00326	%	< 0.00326		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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Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2400293						
Sample Duplicate		Sample ID: 24-0002060001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBG	0.0176	0.0172	0.00309	%	2.70	< 20	Acceptable	
CBD	0.630	0.619	0.00309	%	1.62	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBC	0.00522	0.00512	0.00309	%	2.00	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00309	%	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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 Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2400371			
Method Blank			Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.920	1.000	92.0	50.0 150	
Accephate	0.014	< 0.200		0.655	0.800	81.9	60.0 120	
Acequinocyl	0.000	< 1.000		4.015	4.000	100.4	40.0 160	
Acetamiprid	0.000	< 0.100		0.351	0.400	87.8	60.0 120	
Aldicarb	0.000	< 0.200		0.749	0.800	93.6	60.0 120	
Azoxystrobin	0.005	< 0.100		0.369	0.400	92.2	60.0 120	
Bifenazate	0.000	< 0.100		0.370	0.400	92.5	60.0 120	
Bifenthrin	0.000	< 0.100		0.356	0.400	89.1	50.0 150	
Boscalid	0.000	< 0.200		0.719	0.800	89.9	60.0 120	
Carbaryl	0.000	< 0.100		0.357	0.400	89.4	60.0 120	
Carbofuran	0.000	< 0.100		0.353	0.400	88.2	60.0 120	
Chlorantraniliprole	0.000	< 0.100		0.347	0.400	86.7	60.0 120	
Chlorfenapyr	0.029	< 0.500		2.013	2.000	100.6	60.0 120	
Chlorpyrifos	0.000	< 0.100		0.338	0.400	84.5	60.0 120	
Clofentezine	0.000	< 0.100		0.325	0.400	81.3	60.0 120	
Cyfluthrin	0.000	< 0.500		1.837	2.000	91.9	50.0 150	
Cypermethrin	0.000	< 0.500		1.816	2.000	90.8	50.0 150	
Daminozide	0.000	< 0.500		0.631	2.000	31.6	60.0 120	Q6
Diazinon	0.000	< 0.100		0.375	0.400	93.7	60.0 120	
Dichlorvos	0.000	< 0.500		1.586	2.000	79.3	60.0 120	
Dimethoate	0.000	< 0.100		0.351	0.400	87.7	60.0 120	
Ethoprophos	0.000	< 0.100		0.341	0.400	85.4	60.0 120	
Etofenprox	0.000	< 0.200		0.753	0.800	94.1	50.0 150	
Etoxazole	0.000	< 0.100		0.389	0.400	97.2	60.0 120	
Fenoxycarb	0.000	< 0.100		0.367	0.400	91.8	60.0 120	
Fenpyroximate	0.000	< 0.200		0.737	0.800	92.1	60.0 120	
Fipronil	0.000	< 0.200		0.730	0.800	91.2	60.0 120	
Flonicamid	0.000	< 0.250		0.678	1.000	67.8	60.0 120	
Fludioxonil	0.000	< 0.200		0.681	0.800	85.1	50.0 150	
Hexythiazox	0.000	< 0.250		0.927	1.000	92.7	60.0 120	
Imazalil	0.000	< 0.100		0.339	0.400	84.7	60.0 120	
Imidacloprid	0.000	< 0.200		0.597	0.800	74.6	60.0 120	
Kresoxim-methyl	0.000	< 0.200		0.713	0.800	89.1	60.0 120	
Malathion	0.000	< 0.100		0.362	0.400	90.5	60.0 120	
Metalaxyl	0.000	< 0.100		0.351	0.400	87.7	60.0 120	
Methiocarb	0.000	< 0.100		0.366	0.400	91.4	60.0 120	
Methomyl	0.000	< 0.200		0.555	0.800	69.3	60.0 120	
MGK-264	0.000	< 0.100		0.362	0.400	90.6	50.0 150	
Myclobutanil	0.000	< 0.100		0.333	0.400	83.3	60.0 120	
Naled	0.000	< 0.250		0.848	1.000	84.8	50.0 150	
Oxamyl	0.000	< 0.500		1.490	2.000	74.5	60.0 120	
Paclobutrazole	0.000	< 0.200		0.711	0.800	88.9	60.0 120	
Parathion-Methyl	0.024	< 0.100		0.359	0.400	89.7	50.0 150	
Permethrin	0.000	< 0.100		0.366	0.400	91.5	50.0 150	
Phosmet	0.000	< 0.100		0.374	0.400	93.4	50.0 150	
Piperonyl butoxide	0.000	< 0.500		1.821	2.000	91.1	60.0 120	
Prallethrin	0.000	< 0.100		0.349	0.400	87.3	60.0 120	
Propiconazole	0.000	< 0.200		0.730	0.800	91.2	60.0 120	
Propoxur	0.000	< 0.100		0.346	0.400	86.6	60.0 120	
Pyrethrin (Summe)	0.000	< 0.100		0.455	0.488	93.2	60.0 120	
Pyridaben	0.000	< 0.100		0.357	0.400	89.3	50.0 150	
Spinosad	0.000	< 0.100		0.353	0.388	90.9	50.0 150	
Spiromesifen	0.000	< 0.100		0.360	0.400	90.0	60.0 120	
Spirotetramat	0.000	< 0.100		0.339	0.400	84.6	60.0 120	
Spiroxamine	0.000	< 0.200		0.716	0.800	89.5	60.0 120	
Tebuconazole	0.000	< 0.200		0.712	0.800	89.0	60.0 120	
Thiacloprid	0.000	< 0.100		0.359	0.400	89.7	60.0 120	
Thiamethoxam	0.000	< 0.100		0.304	0.400	75.9	60.0 120	
Trifloxystrobin	0.000	< 0.100		0.345	0.400	86.2	60.0 120	



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Revision: 3 Document ID: 3120

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

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg				Batch ID: 2400371				
Matrix Spike/Matrix Spike Duplicate Recoveries					Sample ID: 24-000281-0003					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.877	0.900	1.000	2.6%	< 30	87.7%	90.0%	50 - 150	
Acephate	0.000	0.659	0.652	0.800	1.0%	< 30	82.3%	81.5%	50 - 150	
Acequinocyl	0.000	4.924	3.673	4.000	29.1%	< 30	123.1%	91.8%	50 - 150	
Acetamiprid	0.000	0.378	0.349	0.400	8.1%	< 30	94.6%	87.3%	50 - 150	
Aldicarb	0.000	0.748	0.746	0.800	0.2%	< 30	93.5%	93.3%	50 - 150	
Azoxystrobin	0.005	0.351	0.319	0.400	9.8%	< 30	86.5%	78.5%	50 - 150	
Bifenazate	0.000	0.357	0.344	0.400	3.7%	< 30	89.3%	86.1%	50 - 150	
Bifenthrin	0.000	0.310	0.339	0.400	8.8%	< 30	77.6%	84.7%	50 - 150	
Boscalid	0.000	0.763	0.697	0.800	9.1%	< 30	95.4%	87.1%	50 - 150	
Carbaryl	0.000	0.363	0.320	0.400	12.6%	< 30	90.9%	80.1%	50 - 150	
Carbofuran	0.000	0.328	0.311	0.400	5.3%	< 30	82.1%	77.8%	50 - 150	
Chlorantraniliprole	0.000	0.330	0.332	0.400	0.7%	< 30	82.5%	83.1%	50 - 150	
Chlorfenapyr	0.028	1.727	1.810	2.000	4.8%	< 30	85.0%	89.1%	50 - 150	
Chlorpyrifos	0.000	0.325	0.310	0.400	4.5%	< 30	81.2%	77.6%	50 - 150	
Clofentezine	0.000	0.298	0.281	0.400	6.1%	< 30	74.6%	70.1%	50 - 150	
Cyfluthrin	0.000	1.953	1.960	2.000	0.4%	< 30	97.7%	98.0%	30 - 150	
Cypermethrin	0.000	1.920	1.963	2.000	2.2%	< 30	96.0%	98.2%	50 - 150	
Daminozide	0.000	0.616	0.688	2.000	11.0%	< 30	30.8%	34.4%	30 - 150	
Diazinon	0.000	0.346	0.362	0.400	4.7%	< 30	86.4%	90.6%	50 - 150	
Dichlorvos	0.000	1.694	1.617	2.000	4.6%	< 30	84.7%	80.9%	50 - 150	
Dimethoate	0.000	0.353	0.342	0.400	3.1%	< 30	88.2%	85.5%	50 - 150	
Ethoprofos	0.000	0.338	0.338	0.400	0.1%	< 30	84.5%	84.6%	50 - 150	
Etofenprox	0.000	0.631	0.677	0.800	7.0%	< 30	78.8%	84.6%	50 - 150	
Etoxazole	0.000	0.369	0.370	0.400	0.5%	< 30	92.2%	92.6%	50 - 150	
Fenoxycarb	0.000	0.339	0.340	0.400	0.3%	< 30	84.8%	85.0%	50 - 150	
Fenpyroximate	0.000	0.706	0.727	0.800	2.9%	< 30	88.2%	90.9%	50 - 150	
Fipronil	0.000	0.767	0.712	0.800	7.4%	< 30	95.8%	89.0%	50 - 150	
Flonicamid	0.000	0.756	0.846	1.000	11.2%	< 30	75.6%	84.6%	50 - 150	
Fludioxonil	0.000	0.682	0.601	0.800	12.7%	< 30	85.3%	75.1%	50 - 150	
Hexythiazox	0.000	1.485	1.453	1.000	2.2%	< 30	148.5%	145.3%	50 - 150	
Imazalil	0.000	0.345	0.338	0.400	2.1%	< 30	86.2%	84.4%	50 - 150	
Imidacloprid	0.000	0.649	0.651	0.800	0.3%	< 30	81.1%	81.3%	50 - 150	
Kresoxim-methyl	0.000	0.700	0.645	0.800	8.2%	< 30	87.5%	80.6%	50 - 150	
Malathion	0.000	0.321	0.331	0.400	2.9%	< 30	80.3%	82.7%	50 - 150	
Metalaxyl	0.000	0.347	0.330	0.400	5.0%	< 30	86.7%	82.5%	50 - 150	
Methiocarb	0.000	0.370	0.352	0.400	4.9%	< 30	92.4%	88.0%	50 - 150	
Methomyl	0.000	0.605	0.694	0.800	13.8%	< 30	75.6%	86.8%	50 - 150	
MGK-264	0.000	0.333	0.311	0.400	7.0%	< 30	83.3%	77.6%	50 - 150	
Myclobutanil	0.000	0.319	0.347	0.400	8.5%	< 30	79.7%	86.8%	50 - 150	
Naled	0.000	0.796	0.800	1.000	0.5%	< 30	79.6%	80.0%	50 - 150	
Oxamyl	0.000	1.584	1.651	2.000	4.2%	< 30	79.2%	82.6%	50 - 150	
Paclobutrazole	0.000	0.707	0.626	0.800	12.2%	< 30	88.4%	78.2%	50 - 150	
Parathion-Methyl	0.024	0.350	0.366	0.400	4.9%	< 30	81.5%	85.6%	30 - 150	
Permethrin	0.000	0.312	0.334	0.400	6.8%	< 30	78.0%	83.5%	50 - 150	
Phosmet	0.000	0.367	0.350	0.400	4.8%	< 30	91.8%	87.5%	50 - 150	
Piperonyl butoxide	0.000	1.734	1.643	2.000	5.4%	< 30	86.7%	82.2%	50 - 150	
Prallethrin	0.000	0.344	0.342	0.400	0.7%	< 30	86.0%	85.4%	50 - 150	
Propiconazole	0.000	0.710	0.699	0.800	1.6%	< 30	88.8%	87.4%	50 - 150	
Propoxur	0.000	0.332	0.332	0.400	0.0%	< 30	83.0%	83.1%	50 - 150	
Pyrethrin (Summe)	0.000	0.431	0.433	0.488	0.5%	< 30	88.2%	88.7%	50 - 150	
Pyridaben	0.000	0.374	0.396	0.400	5.8%	< 30	93.4%	99.0%	50 - 150	
Spinosad	0.000	0.348	0.324	0.388	7.2%	< 30	89.7%	83.4%	50 - 150	
Spiromesfen	0.000	0.358	0.359	0.400	0.4%	< 30	89.5%	89.8%	50 - 150	
Spirotetramat	0.000	0.348	0.331	0.400	5.2%	< 30	87.1%	82.6%	50 - 150	
Spiroxamine	0.000	0.681	0.694	0.800	1.9%	< 30	85.1%	86.7%	50 - 150	
Tebuconazole	0.000	0.728	0.735	0.800	1.0%	< 30	91.0%	91.9%	50 - 150	
Thiacloprid	0.000	0.358	0.350	0.400	2.3%	< 30	89.6%	87.5%	50 - 150	
Thiamethoxam	0.000	0.338	0.376	0.400	10.7%	< 30	84.5%	94.0%	50 - 150	
Trifloxystrobin	0.000	0.329	0.307	0.400	7.0%	< 30	82.3%	76.7%	50 - 150	



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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2400422					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		603	584	µg/g	103.3	60 - 120	
Isobutane	ND	< 200		795	767	µg/g	103.7	60 - 120	
Butane	ND	< 200		794	782	µg/g	101.5	60 - 120	
2,2-Dimethylpropane	ND	< 200		993	939	µg/g	105.8	60 - 120	
Methanol	ND	< 200		1400	1600	µg/g	87.5	60 - 120	
Ethylene Oxide	ND	< 30		58.7	57.1	µg/g	102.8	60 - 120	
2-Methylbutane	ND	< 200		1400	1600	µg/g	87.5	60 - 120	
Pentane	ND	< 200		1360	1600	µg/g	85.0	60 - 120	
Ethanol	ND	< 200		1330	1600	µg/g	83.1	70 - 130	
Ethyl Ether	ND	< 200		1420	1600	µg/g	88.8	60 - 120	
2,2-Dimethylbutane	ND	< 30		142	161	µg/g	88.2	60 - 120	
Acetone	ND	< 200		1450	1600	µg/g	90.6	60 - 120	
2-Propanol	ND	< 200		1460	1600	µg/g	91.3	60 - 120	
Acetonitrile	ND	< 100		431	488	µg/g	88.3	60 - 120	
2,3-Dimethylbutane	ND	< 30		135	163	µg/g	82.8	60 - 120	
Dichloromethane	ND	< 60		427	488	µg/g	87.5	60 - 120	
2-Methylpentane	ND	< 30		77.2	161	µg/g	48.0	60 - 120	Q6
3-Methylpentane	ND	< 30		140	162	µg/g	86.4	60 - 120	
Hexane	ND	< 30		127	161	µg/g	78.9	60 - 120	
Ethyl acetate	ND	< 200		1420	1610	µg/g	88.2	60 - 120	
2-Butanol	ND	< 200		1430	1610	µg/g	88.8	60 - 120	
Tetrahydrofuran	ND	< 100		432	483	µg/g	89.4	60 - 120	
Cyclohexane	ND	< 200		1410	1600	µg/g	88.1	60 - 120	
Benzene	ND	< 1		2.73	4.99	µg/g	54.7	60 - 120	Q6
Isopropyl Acetate	ND	< 200		1430	1600	µg/g	89.4	60 - 120	
Heptane	ND	< 200		1370	1600	µg/g	85.6	60 - 120	
1,4-Dioxane	ND	< 100		402	480	µg/g	83.8	60 - 120	
2-Ethoxyethanol	ND	< 30		120	161	µg/g	74.5	60 - 120	
Ethylene Glycol	ND	< 200		241	481	µg/g	50.1	60 - 120	Q6
Toluene	ND	< 100		419	483	µg/g	86.7	60 - 120	
Ethylbenzene	ND	< 200		849	962	µg/g	88.3	60 - 120	
m,p-Xylene	ND	< 200		859	972	µg/g	88.4	60 - 120	
o-Xylene	ND	< 200		847	965	µg/g	87.8	60 - 120	
Cumene	ND	< 30		153	169	µg/g	90.5	60 - 120	



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QC - Sample Duplicate		Sample ID: 24-000281-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
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	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	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	100	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
 Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

µg/g - Microgram per gram or ppm



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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.