

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU	BATCH #	LOQ: Limit Of Quantitation	
PRODUCT NAME	SERVING SIZE	LOD: Limit Of Detection	
LABORATORY :	OREGON ACCREDITATION: OR100028	1 g = 10 ⁻³ kg = 10 ³ mg = 10 ⁶ µg 1 mg/kg = 1 ppm = 1000 ppb	
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 GRAM	REGULATORY ACTION LEVEL
Arsenic	µg/serving	µg/g	10 µg/day ^[1]
Cadmium	µg/serving	µg/g	4.1 µg/day ^[1]
Lead	µg/serving	µg/g	6 µg/day ^[1]
Mercury	µg/serving	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	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		
TERPENES	% OF SAMPLE		
Farnesene	%		
β-Caryophyllene	%		
α-Bisabolol	%		
Guaiol	%		
Humulene	%		
Caryophyllene Oxide	%		



1. 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: 23-012497/D004.R000
Report Date: 11/06/2023
ORELAP#: OR100028
Purchase Order: 2683095
Received: 10/20/23 15:43

Customer: Etz Hayim Holdings
Product identity: FORM-TN.O.FS50-FH85
Client/Metric ID: .
Laboratory ID: 23-012497-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	4.18		mg/1g		CBD-Total per Serving Size 55.2 mg/1g
CBD per 1g	55.2		mg/1g		
CBDV per 1g	0.678		mg/1g		THC-Total per Serving Size 1.69 mg/1g
CBE per 1g	1.11		mg/1g		(Reported in milligrams per serving)
CBG per 1g	1.93		mg/1g		
CBL per 1g	0.465		mg/1g		
CBN per 1g	0.0968		mg/1g		
CBT per 1g	1.61		mg/1g		
Δ9-THC per 1g	1.69		mg/1g		

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
β-Caryophyllene	0.0867	29.29%	(-)-caryophyllene oxide	0.0693	23.41%
α-Bisabolol	0.0392	13.24%	(-)-Guaiol	0.0347	11.72%
Humulene	0.0338	11.42%	β-Myrcene	0.0322	10.88%
Total Terpenes	0.296	100.00%			

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Received: 10/20/23 15:43

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

Product identity: FORM-TN.O.FS50-FH85

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-012497-0001

Evidence of Cooling: No

Temp: 18.1

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: 2312177	Analyze: 10/24/23 11:03:00 P	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	4.18		mg/1g	0.0324	
CBC-A per 1g	< LOQ		mg/1g	0.0324	
CBC-Total per 1g	4.18		mg/1g	0.0609	
CBD per 1g	55.2		mg/1g	0.324	
CBD-A per 1g	< LOQ		mg/1g	0.0324	
CBD-Total per 1g	55.2		mg/1g	0.353	
CBDV per 1g	0.678		mg/1g	0.0324	
CBDV-A per 1g	< LOQ		mg/1g	0.0324	
CBDV-Total per 1g	0.678		mg/1g	0.0606	
CBE per 1g	1.11		mg/1g	0.0324	
CBG per 1g	1.93		mg/1g	0.0324	
CBG-A per 1g	< LOQ		mg/1g	0.0324	
CBG-Total per 1g	1.93		mg/1g	0.0606	
CBL per 1g	0.465		mg/1g	0.0324	
CBL-A per 1g	< LOQ		mg/1g	0.0324	
CBL-Total per 1g	0.465		mg/1g	0.0609	
CBN per 1g	0.0968		mg/1g	0.0324	
CBT per 1g	1.61		mg/1g	0.0324	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0324	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0324	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0324	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0649	
Δ8-THC per 1g	< LOQ		mg/1g	0.0324	
Δ9-THC per 1g	1.69		mg/1g	0.0324	
delta-9-THCP per 1g	< LOQ		mg/1g	0.0324	
exo-THC per 1g	< LOQ		mg/1g	0.0324	
THC-A per 1g	< LOQ		mg/1g	0.0324	
THC-Total per 1g	1.69		mg/1g	0.0609	
THCV per 1g	< LOQ		mg/1g	0.0324	
THCV-A per 1g	< LOQ		mg/1g	0.0324	



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Potency per 1g	Method: J AOAC 2015 V98-6 (mod) ^P	Units mg/se	Batch: 2312177	Analyze: 10/24/23 11:03:00 P	
Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total per 1g	< LOQ		mg/1g	0.0609	
Total Cannabinoids per 1g	67.0		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2312340	11/02/23 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2312340	11/02/23 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2312341	11/02/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2312341	11/02/23 AOAC 2014.05 (RAPID) ^P		

Solvents Method: Residual Solvents by GC/MS^P Units µg/g Batch 2312430 Analyze 11/02/23 12:11 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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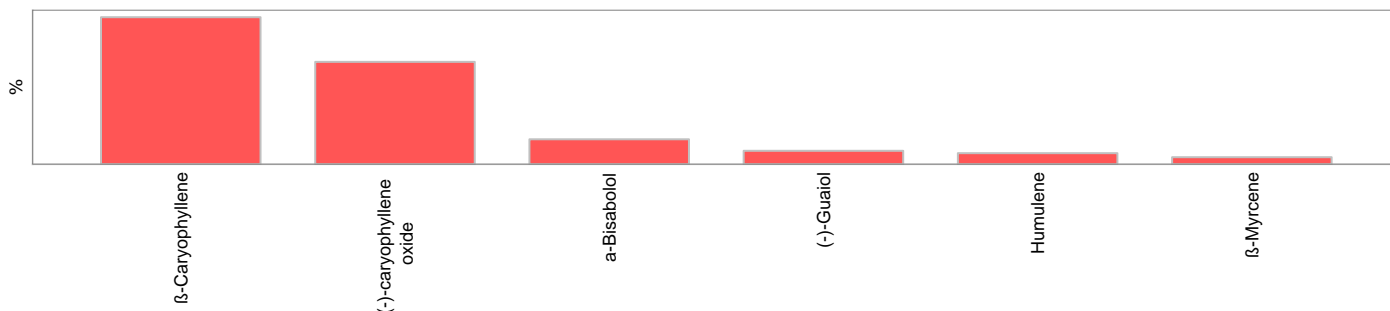


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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod) ^b											
Units mg/kg Batch 2312435 Analyze 11/02/23 02:19 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		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		Etoazole [‡]	< 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		Paclotubrazole [‡]	< 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							



Terpenes				Method: J AOAC 2015 V98-6	Units %	Batch 2312403	Analyze 10/31/23 03:59 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Caryophyllene	0.0867	0.019	29.2905%		(-)-caryophyllene oxide	0.0693	0.019	23.4122%	
α-Bisabolol	0.0392	0.019	13.2432%		(-)-Guaiol	0.0347	0.019	11.7230%	
Humulene	0.0338	0.019	11.4189%		β-Myrcene	0.0322	0.019	10.8784%	
(R)-(+)-Limonene	< LOQ	0.019	0.00%		Eucalyptol	< LOQ	0.019	0.00%	
p-Cymene	< LOQ	0.019	0.00%		Terpinolene	< LOQ	0.019	0.00%	
Linalool	< LOQ	0.019	0.00%		(±)-fenchone	< LOQ	0.019	0.00%	
(+)-fenchol	< LOQ	0.019	0.00%		(-)-Isopulegol	< LOQ	0.019	0.00%	
valencene	< LOQ	0.019	0.00%		Geraniol	< LOQ	0.019	0.00%	
(±)-trans-Nerolidol	< LOQ	0.019	0.00%		Camphene	< LOQ	0.019	0.00%	
gamma-Terpinene	< LOQ	0.019	0.00%		(±)-Camphor	< LOQ	0.019	0.00%	
Menthol	< LOQ	0.019	0.00%		Isoborneol	< LOQ	0.019	0.00%	
trans-β-Ocimene	< LOQ	0.012	0.00%		(+)-Borneol	< LOQ	0.019	0.00%	
Sabinene	< LOQ	0.019	0.00%		(±)-cis-Nerolidol	< LOQ	0.019	0.00%	
(-)-α-Terpineol	< LOQ	0.019	0.00%		α-pinene	< LOQ	0.019	0.00%	
(-)-β-Pinene	< LOQ	0.019	0.00%		Geranyl acetate	< LOQ	0.019	0.00%	
(+)-Cedrol	< LOQ	0.019	0.00%		(+)-Pulegone	< LOQ	0.019	0.00%	
α-cedrene	< LOQ	0.019	0.00%		α-phellandrene	< LOQ	0.019	0.00%	
α-Terpinene	< LOQ	0.019	0.00%		cis-β-Ocimene	< LOQ	0.006	0.00%	
d-3-Carene	< LOQ	0.019	0.00%		farnesene	< LOQ	0.019	0.00%	
nerol	< LOQ	0.019	0.00%		Sabinene hydrate	< LOQ	0.019	0.00%	
Total Terpenes	0.296								



Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic [‡]	< LOQ	0.200	mg/kg	0.0835	2312377	10/31/23 AOAC 2013.06 (mod.) [‡]	pass	
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0835	2312377	10/31/23 AOAC 2013.06 (mod.) [‡]	pass	
Lead [‡]	< LOQ	0.500	mg/kg	0.0835	2312377	10/31/23 AOAC 2013.06 (mod.) [‡]	pass	
Mercury [‡]	< LOQ	0.100	mg/kg	0.0418	2312377	10/31/23 AOAC 2013.06 (mod.) [‡]	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

J AOAC 2015 V98-6 Batch ID: 2312177

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0309	0.0323	%	95.7	80.0	- 120	Acceptable	
CBDV	2	0.0336	0.0337	%	99.8	80.0	- 120	Acceptable	
CBE	2	0.0342	0.0358	%	95.5	80.0	- 120	Acceptable	
CBD A	1	0.0312	0.0322	%	96.8	90.0	- 110	Acceptable	
CBGA	1	0.0312	0.0329	%	94.9	80.0	- 120	Acceptable	
CBG	1	0.0356	0.0368	%	96.9	80.0	- 120	Acceptable	
CBD	1	0.0319	0.0313	%	102	90.0	- 110	Acceptable	
THCV	2	0.0323	0.0345	%	93.7	80.0	- 120	Acceptable	
d8THCV	2	0.0288	0.0283	%	102	80.0	- 120	Acceptable	
THCVA	2	0.0304	0.0312	%	97.5	80.0	- 120	Acceptable	
CBN	1	0.0312	0.0329	%	95.0	80.0	- 120	Acceptable	
exo-THC	2	0.0309	0.0315	%	98.2	80.0	- 120	Acceptable	
d9THC	1	0.0343	0.0365	%	93.9	90.0	- 110	Acceptable	
d8THC	1	0.0333	0.0340	%	97.9	90.0	- 110	Acceptable	
9S-d10THC	1	0.0320	0.0337	%	94.8	80.0	- 120	Acceptable	
CBL	2	0.0307	0.0332	%	92.6	80.0	- 120	Acceptable	
9R-d10THC	1	0.0318	0.0336	%	94.5	80.0	- 120	Acceptable	
CBC	2	0.0338	0.0342	%	98.9	80.0	- 120	Acceptable	
THCA	1	0.0322	0.0337	%	95.7	90.0	- 110	Acceptable	
CBCA	2	0.0313	0.0338	%	92.5	80.0	- 120	Acceptable	
CBLA	2	0.0333	0.0342	%	97.3	80.0	- 120	Acceptable	
d9THCP	2	0.0313	0.0334	%	93.8	80.0	- 120	Acceptable	
CBT	2	0.0356	0.0343	%	104	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBDV	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBE	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBD A	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBGA	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBG	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBD	<LOQ	0.00323	%	< 0.00323	Acceptable	
THCV	<LOQ	0.00323	%	< 0.00323	Acceptable	
d8THCV	<LOQ	0.00323	%	< 0.00323	Acceptable	
THCVA	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBN	<LOQ	0.00323	%	< 0.00323	Acceptable	
exo-THC	<LOQ	0.00323	%	< 0.00323	Acceptable	
d9THC	<LOQ	0.00323	%	< 0.00323	Acceptable	
d8THC	<LOQ	0.00323	%	< 0.00323	Acceptable	
9S-d10THC	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBL	<LOQ	0.00323	%	< 0.00323	Acceptable	
9R-d10THC	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBC	<LOQ	0.00323	%	< 0.00323	Acceptable	
THCA	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBCA	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBLA	<LOQ	0.00323	%	< 0.00323	Acceptable	
d9THCP	<LOQ	0.00323	%	< 0.00323	Acceptable	
CBT	<LOQ	0.00323	%	< 0.00323	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: 4 Document ID: 7148
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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2312177						
Sample Duplicate		Sample ID: 23-012497-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBDV	0.0674	0.0678	0.00314	%	0.579	< 20	Acceptable	
CBE	0.110	0.111	0.00314	%	0.488	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBG	0.189	0.193	0.00314	%	1.74	< 20	Acceptable	
CBD	5.43	5.52	0.00314	%	1.65	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBN	0.00954	0.00968	0.00314	%	1.50	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
d9THC	0.167	0.169	0.00314	%	1.21	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBL	0.0521	0.0465	0.00314	%	11.3	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBC	0.409	0.418	0.00314	%	2.27	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBT	0.158	0.161	0.00314	%	1.91	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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



Report Number: 23-012497/D004.R000
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Legacy ID: CFL-E57Worksheet Validated 11/04/2020

Terpenes Quality Control Results

Method Reference: EPA5035				Batch ID: 2312403					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS% Rec	Limits	Notes
a-pinene	<LOQ	< 200		437	500	µg/g	87%	70 - 130	
Camphene	<LOQ	< 200		442	500	µg/g	88%	70 - 130	
Sabinene	<LOQ	< 200		438	500	µg/g	88%	70 - 130	
b-Pinene	<LOQ	< 200		436	500	µg/g	87%	70 - 130	
b-Myrcene	<LOQ	< 200		442	500	µg/g	88%	70 - 130	
a-phellandrene	<LOQ	< 200		449	500	µg/g	90%	70 - 130	
d-3-Carene	<LOQ	< 200		450	500	µg/g	90%	70 - 130	
a-Terpinene	<LOQ	< 200		433	500	µg/g	87%	70 - 130	
p-Cymene	<LOQ	< 200		442	500	µg/g	88%	70 - 130	
D-Limonene	<LOQ	< 200		432	500	µg/g	86%	70 - 130	
Eucalyptol	<LOQ	< 200		441	500	µg/g	88%	70 - 130	
b-cis-Cimene	<LOQ	< 67		149	167	µg/g	90%	70 - 130	
b-trans-Cimene	<LOQ	< 133		290	333	µg/g	87%	70 - 130	
g-Terpinene	<LOQ	< 200		435	500	µg/g	87%	70 - 130	
Sabinene Hydrate	<LOQ	< 200		444	500	µg/g	89%	70 - 130	
Terpinolene	<LOQ	< 200		437	500	µg/g	87%	70 - 130	
D-Fenchone	<LOQ	< 200		446	500	µg/g	89%	70 - 130	
Linalool	<LOQ	< 200		472	500	µg/g	94%	70 - 130	
Fenchol	<LOQ	< 200		430	500	µg/g	86%	70 - 130	
Camphor	<LOQ	< 200		441	500	µg/g	88%	70 - 130	
Isopulego	<LOQ	< 200		460	500	µg/g	92%	70 - 130	
Isoborneol	<LOQ	< 200		441	500	µg/g	88%	70 - 130	
Borneol	<LOQ	< 200		414	500	µg/g	83%	70 - 130	
DL-Menthol	<LOQ	< 200		437	500	µg/g	87%	70 - 130	
Terpineol	<LOQ	< 200		449	500	µg/g	90%	70 - 130	
Nerd	<LOQ	< 200		416	500	µg/g	83%	70 - 130	
Pulegone	<LOQ	< 200		446	500	µg/g	89%	70 - 130	
Geraniol	<LOQ	< 200		410	500	µg/g	82%	70 - 130	
Geranyl Acetate	<LOQ	< 200		449	500	µg/g	90%	70 - 130	
a-Cedrene	<LOQ	< 200		459	500	µg/g	92%	70 - 130	
b-Caryophyllene	<LOQ	< 200		460	500	µg/g	92%	70 - 130	
a-Humulene	<LOQ	< 200		443	500	µg/g	89%	70 - 130	
Valene	<LOQ	< 200		448	500	µg/g	90%	70 - 130	
cis-Nerolidol	<LOQ	< 200		463	500	µg/g	93%	70 - 130	
a-Farnesene	<LOQ	< 200		495	500	µg/g	99%	70 - 130	
trans-Nerolidol	<LOQ	< 200		451	500	µg/g	90%	70 - 130	
Caryophyllene Oxide	<LOQ	< 200		456	500	µg/g	91%	70 - 130	
Guaiol	<LOQ	< 200		455	500	µg/g	91%	70 - 130	
Cedrol	<LOQ	< 200		457	500	µg/g	91%	70 - 130	
a-Bisabolol	<LOQ	< 200		452	500	µg/g	90%	70 - 130	

Definitions

LOQ	Limit of Quantitation
LCS	Laboratory Control Sample
% REC	Percent Recovery



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Report Number: 23-012497/D004.R000
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Terpenes Quality Control Results

Method Reference: EPA5035		Batch ID: 2312403					
Sample/ Sample Duplicate		Sample ID: 23-012701-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	3050	2570	192	µg/g	17%	< 20	
Camphene	225	195	192	µg/g	14%	< 20	
Sabinene	<LOQ	<LOQ	192	µg/g	0%	< 20	
b-Pinene	860	727	192	µg/g	17%	< 20	
b-Myrcene	6400	5460	192	µg/g	16%	< 20	
a-phellandrene	<LOQ	<LOQ	192	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	192	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	192	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	192	µg/g	0%	< 20	
D-Limonene	1140	981	192	µg/g	15%	< 20	
Eucalyptol	275	247	192	µg/g	11%	< 20	
b-cis-Cimene	70	<LOQ	63.9	µg/g	0%	< 20	
b-trans-Cimene	538	473	128	µg/g	13%	< 20	
g-Terpinene	<LOQ	<LOQ	192	µg/g	0%	< 20	
Sabinene Hydrate	<LOQ	<LOQ	192	µg/g	0%	< 20	
Terpinolene	881	782	192	µg/g	12%	< 20	
D-Fenchone	<LOQ	<LOQ	192	µg/g	0%	< 20	
Linalool	652	585	192	µg/g	11%	< 20	
Fenchol	253	232	192	µg/g	9%	< 20	
Camphor	<LOQ	<LOQ	192	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	192	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	192	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	192	µg/g	0%	< 20	
DL-Menthhol	<LOQ	<LOQ	192	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	192	µg/g	0%	< 20	
Nerd	<LOQ	<LOQ	192	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	192	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	192	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	192	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	192	µg/g	0%	< 20	
b-Caryophyllene	8860	8440	192	µg/g	5%	< 20	
a-Humulene	4430	4260	192	µg/g	4%	< 20	
Valnene	649	635	192	µg/g	2%	< 20	
cis-Nerolidol	<LOQ	<LOQ	192	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	192	µg/g	0%	< 20	
trans-Nerolidol	957	900	192	µg/g	6%	< 20	
Caryophyllene_Oxide	2720	2290	192	µg/g	17%	< 20	
Guaiol	<LOQ	<LOQ	192	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	192	µg/g	0%	< 20	
a-Bisabolol	813	723	192	µg/g	12%	< 20	

Definitions

RPD Relative Percent Difference



Revision: 2 Document ID: 7087
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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2312430					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		511	584	µg/g	87.5	60 - 120	
Isobutane	ND	< 200		794	767	µg/g	103.5	60 - 120	
Butane	ND	< 200		740	782	µg/g	94.6	60 - 120	
2,2-Dimethylpropane	ND	< 200		921	939	µg/g	98.1	60 - 120	
Methanol	ND	< 200		1650	1670	µg/g	98.8	60 - 120	
Ethylene Oxide	ND	< 30		58.2	57.1	µg/g	101.9	60 - 120	
2-Methylbutane	ND	< 200		1500	1680	µg/g	89.3	60 - 120	
Pentane	ND	< 200		1500	1670	µg/g	89.8	60 - 120	
Ethanol	ND	< 200		1600	1660	µg/g	96.4	70 - 130	
Ethyl Ether	ND	< 200		1550	1670	µg/g	92.8	60 - 120	
2,2-Dimethylbutane	ND	< 30		174	189	µg/g	92.1	60 - 120	
Acetone	ND	< 200		1590	1670	µg/g	95.2	60 - 120	
2-Propanol	ND	< 200		1540	1630	µg/g	94.5	60 - 120	
Ethyl Formate	ND	< 500		1160	1600	µg/g	72.5	70 - 130	
Acetonitrile	ND	< 100		468	492	µg/g	95.1	60 - 120	
Methyl Acetate	ND	< 500		1380	1600	µg/g	86.3	70 - 130	
2,3-Dimethylbutane	ND	< 30		185	180	µg/g	102.8	60 - 120	
Dichloromethane	ND	< 60		460	488	µg/g	94.3	60 - 120	
2-Methylpentane	ND	< 30		149	182	µg/g	81.9	60 - 120	
MTBE	ND	< 500		1420	1610	µg/g	88.2	70 - 130	
3-Methylpentane	ND	< 30		171	177	µg/g	96.6	60 - 120	
Hexane	ND	< 30		157	177	µg/g	88.7	60 - 120	
1-Propanol	ND	< 500		1430	1600	µg/g	89.4	70 - 130	
Methyl ethyl ketone	ND	< 500		1340	1610	µg/g	83.2	70 - 130	
Ethyl acetate	ND	< 200		1520	1630	µg/g	93.3	60 - 120	
2-Butanol	ND	< 200		1490	1630	µg/g	91.4	60 - 120	
Tetrahydrofuran	ND	< 100		437	488	µg/g	89.5	60 - 120	
Cyclohexane	ND	< 200		1450	1610	µg/g	90.1	60 - 120	
2-methyl-1-propanol	ND	< 500		1440	1610	µg/g	89.4	70 - 130	
Benzene	ND	< 1		4.59	4.79	µg/g	95.8	60 - 120	
Isopropyl Acetate	ND	< 200		1530	1650	µg/g	92.7	60 - 120	
Heptane	ND	< 200		1450	1630	µg/g	89.0	60 - 120	
1-Butanol	ND	< 500		1440	1600	µg/g	90.0	70 - 130	
Propyl Acetate	ND	< 500		1330	1600	µg/g	83.1	70 - 130	
1,4-Dioxane	ND	< 100		490	523	µg/g	93.7	60 - 120	
2-Ethoxyethanol	ND	< 30		155	179	µg/g	86.6	60 - 120	
Methylisobutylketone	ND	< 500		1430	1600	µg/g	89.4	70 - 130	
3-Methyl-1-butanol	ND	< 500		1210	1600	µg/g	75.6	70 - 130	
Ethylene Glycol	ND	< 200		427	508	µg/g	84.4	60 - 120	
Toluene	ND	< 100		440	496	µg/g	88.7	60 - 120	
Isobutyl Acetate	ND	< 500		1250	1610	µg/g	77.6	70 - 130	
1-Pentanol	ND	< 500		1170	1600	µg/g	73.1	70 - 130	
Butyl Acetate	ND	< 500		1210	1610	µg/g	75.2	70 - 130	
Ethylbenzene	ND	< 200		812	978	µg/g	83.0	60 - 120	
m,p-Xylene	ND	< 200		798	994	µg/g	80.1	60 - 120	
o-Xylene	ND	< 200		815	982	µg/g	83.0	60 - 120	
Cumene	ND	< 30		134	171	µg/g	78.4	60 - 120	
Anisole	ND	< 500		1190	1600	µg/g	74.4	70 - 130	
DMSO	ND	< 500		1310	1620	µg/g	80.9	70 - 130	
1,2-dimethoxyethane	ND	< 50		150	186	µg/g	80.6	70 - 130	
Triethylamine	ND	< 500		1340	1600	µg/g	83.8	70 - 130	
N,N-dimethylformamide	ND	< 150		350	480	µg/g	72.9	70 - 130	
N,N-dimethylacetamide	ND	< 150		396	483	µg/g	82.0	70 - 130	
Pyridine	ND	< 50		128	168	µg/g	76.2	70 - 130	
Silofane	ND	< 50		90.4	161	µg/g	56.1	70 - 130	Q6
1,2-Dichloroethane	ND	< 1		0.94	1	µg/g	94.0	70 - 130	
Chloroform	ND	< 1		0.76	1	µg/g	76.0	70 - 130	
Trichloroethylene	ND	< 1		0.799	1	µg/g	79.9	70 - 130	
1,1-Dichloroethane	ND	< 1		0.855	1	µg/g	85.5	70 - 130	



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QC- Sample Duplicate Sample ID: 23-012497-0001

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	
Ethyl Formate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100 µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60 µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500 µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
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



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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg			Batch ID 2312435			
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spk	LCS % Re	Limits	Notes
Abamectin	0.000	< 0.250		0.922	1.000	92.2	50.0	150
Acephate	0.069	< 0.200		0.626	0.800	78.3	60.0	120
Acetamiprid	0.005	< 0.100		0.345	0.400	86.2	60.0	120
Aldicarb	0.000	< 0.200		0.677	0.800	84.6	60.0	120
Azoxystrobin	0.008	< 0.100		0.337	0.400	84.3	60.0	120
Bifenazate	0.000	< 0.100		0.380	0.400	90.0	60.0	120
Bifenthrin	0.011	< 0.100		0.327	0.400	81.6	50.0	150
Boscalid	0.000	< 0.200		0.676	0.800	84.6	60.0	120
Carbaryl	0.003	< 0.100		0.333	0.400	83.3	60.0	120
Carbendazim	0.000	< 0.100		0.350	0.400	87.5	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.351	0.400	87.7	60.0	120
Chlorfenapyr	0.000	< 0.500		1.687	2.000	84.3	60.0	120
Chlorpyrifos	0.000	< 0.100		0.342	0.400	85.6	60.0	120
Clofentezine	0.000	< 0.100		0.322	0.400	80.5	60.0	120
Cyfluthrin	0.000	< 0.500		1.663	2.000	83.1	50.0	150
Cypermethrin	0.000	< 0.500		1.654	2.000	82.7	50.0	150
Daminozide	0.000	< 0.500		0.628	2.000	31.4	60.0	120
Diazonon	0.000	< 0.100		0.323	0.400	80.9	60.0	120
Dichlorvos	0.000	< 0.500		1.720	2.000	86.0	60.0	120
Dimethoate	0.007	< 0.100		0.325	0.400	81.3	60.0	120
Ethionphos	0.001	< 0.100		0.350	0.400	87.5	60.0	120
Etofenprox	0.001	< 0.200		0.654	0.800	81.7	50.0	150
Etoxazole	0.000	< 0.100		0.339	0.400	84.8	60.0	120
Fenoxycarb	0.000	< 0.100		0.349	0.400	87.2	60.0	120
Fenprophate	0.000	< 0.200		0.664	0.800	83.0	60.0	120
Fipronil	0.000	< 0.200		0.662	0.800	82.8	60.0	120
Fonicamid	0.000	< 0.250		0.810	1.000	81.0	60.0	120
Fludioxonil	0.000	< 0.200		0.676	0.800	84.5	50.0	150
Hexythiazox	0.000	< 0.250		0.860	1.000	86.0	60.0	120
Imazalil	0.000	< 0.100		0.374	0.400	93.6	60.0	120
Imidacloprid	0.000	< 0.200		0.658	0.800	82.2	60.0	120
Kiesoxim-methyl	0.000	< 0.200		0.691	0.800	86.3	60.0	120
Malathion	0.000	< 0.100		0.360	0.400	89.9	60.0	120
Metolaxyl	0.007	< 0.100		0.342	0.400	85.5	60.0	120
Methiocarb	0.002	< 0.100		0.327	0.400	81.7	60.0	120
Methomyl	0.000	< 0.200		0.634	0.800	79.2	60.0	120
MCK-264	0.000	< 0.100		0.334	0.400	83.4	50.0	150
Mydobutanol	0.000	< 0.100		0.350	0.400	87.5	60.0	120
Naled	0.000	< 0.250		0.843	1.000	84.3	50.0	150
Oxamyl	0.000	< 0.500		1.577	2.000	78.9	60.0	120
Padobutrazole	0.000	< 0.200		0.697	0.800	87.1	60.0	120
Parathion-Methyl	0.000	< 0.100		0.392	0.400	97.9	50.0	150
Permethrin	0.000	< 0.100		0.361	0.400	90.3	50.0	150
Phosmet	0.000	< 0.100		0.332	0.400	82.9	50.0	150
Piperonyl butoxide	0.000	< 0.500		1.702	2.000	85.1	60.0	120
Prallethrin	0.000	< 0.100		0.347	0.400	86.9	60.0	120
Propiconazole	0.000	< 0.200		0.734	0.800	91.8	60.0	120
Propoxur	0.002	< 0.100		0.350	0.400	87.5	60.0	120
Pyrethrin (Summe)	0.002	< 0.100		0.413	0.488	84.5	60.0	120
Pyridaben	0.003	< 0.100		0.347	0.400	86.8	50.0	150
Spirosad	0.000	< 0.100		0.346	0.388	89.1	50.0	150
Spiromesfen	0.000	< 0.100		0.341	0.400	85.1	60.0	120
Spirotetramat	0.000	< 0.100		0.374	0.400	93.6	60.0	120
Spiroxamine	0.000	< 0.200		0.694	0.800	86.8	60.0	120
Tebuconazole	0.000	< 0.200		0.720	0.800	90.0	60.0	120
Thiadoprid	0.000	< 0.100		0.338	0.400	84.6	60.0	120
Thiamethoxam	0.000	< 0.100		0.324	0.400	80.9	60.0	120
Trifloxystrobin	0.000	< 0.100		0.336	0.400	83.9	60.0	120

Q7



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Report Number: 23-012497/D004.R000
Report Date: 11/06/2023
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Received: 10/20/23 15:43

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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg					Batch ID 2312435			
Matrix Spke/Matrix Spke Duplicate Recoveries	Result	MS Res	MSD Res	Spike	RFD%	Limit	MS % Re	MSD % Re	Limits	Notes
Abamectin	0.00	0.645	0.588	1.00	9.2%	< 30	64.8%	58.8%	50 - 150	
Acephate	0.052	0.657	0.641	0.80	2.6%	< 30	75.8%	73.6%	50 - 150	
Acetaminocyl	0.00	1.737	1.492	4.00	15.2%	< 30	43.4%	37.3%	50 - 150	Q
Acetamiprid	0.00	0.364	0.348	0.40	4.5%	< 30	91.1%	87.1%	50 - 150	
Aldicarb	0.00	0.649	0.645	0.80	0.6%	< 30	81.2%	80.7%	50 - 150	
Azoxystrobin	0.009	0.310	0.299	0.40	3.7%	< 30	75.2%	72.9%	50 - 150	
Bifenazate	0.00	0.310	0.317	0.40	2.3%	< 30	77.9%	79.3%	50 - 150	
Bifenthrin	0.011	0.157	0.155	0.40	1.7%	< 30	36.8%	36.0%	50 - 150	Q
Boscalid	0.00	0.602	0.612	0.80	1.7%	< 30	75.2%	76.9%	50 - 150	
Carbaryl	0.002	0.308	0.305	0.40	0.7%	< 30	76.8%	75.9%	50 - 150	
Carbofuran	0.005	0.324	0.315	0.40	2.7%	< 30	79.8%	77.8%	50 - 150	
Chlorantraniliprole	0.00	0.308	0.276	0.40	10.8%	< 30	77.0%	69.1%	50 - 150	
Chlorfenapyr	0.00	1.470	1.449	2.00	1.4%	< 30	73.9%	72.9%	50 - 150	
Chlorpyrifos	0.00	0.251	0.259	0.40	3.1%	< 30	62.7%	64.7%	50 - 150	
Clofentezane	0.00	0.245	0.255	0.40	4.4%	< 30	61.2%	63.9%	50 - 150	
Cyfluthrin	0.00	0.907	0.904	2.00	0.4%	< 30	45.4%	45.2%	30 - 150	
Cypermethrin	0.00	1.023	0.966	2.00	5.7%	< 30	51.2%	48.3%	50 - 150	Q
Daminozide	0.00	0.623	0.573	2.00	8.4%	< 30	31.2%	28.6%	30 - 150	Q
Diazinon	0.00	0.283	0.284	0.40	0.1%	< 30	70.9%	70.9%	50 - 150	
Dichlorvos	0.032	1.567	1.542	2.00	1.6%	< 30	76.8%	75.9%	50 - 150	
Dimethoate	0.007	0.323	0.308	0.40	4.7%	< 30	79.0%	75.4%	50 - 150	
Ethoprophos	0.001	0.314	0.317	0.40	1.0%	< 30	78.1%	78.9%	50 - 150	
Etofenprox	0.001	0.375	0.363	0.80	3.4%	< 30	46.8%	45.2%	50 - 150	Q
Etoxazole	0.00	0.234	0.242	0.40	3.5%	< 30	58.9%	60.8%	50 - 150	
Fenoxycarb	0.00	0.292	0.291	0.40	0.5%	< 30	73.1%	72.7%	50 - 150	
Fenpyroximate	0.016	0.542	0.531	0.80	2.1%	< 30	65.7%	64.3%	50 - 150	
Fipronil	0.00	0.414	0.373	0.80	10.4%	< 30	51.8%	46.8%	50 - 150	Q
Fonicamid	0.00	0.870	0.803	1.00	8.0%	< 30	87.0%	80.3%	50 - 150	
Fludioxonil	0.00	0.778	0.807	0.80	3.6%	< 30	97.3%	100.8%	50 - 150	
Hexythiazox	0.00	0.324	0.314	1.00	3.3%	< 30	32.4%	31.4%	50 - 150	Q
Imazalil	0.005	0.329	0.335	0.40	1.7%	< 30	80.9%	82.3%	50 - 150	
Imidacloprid	0.021	0.682	0.635	0.80	7.4%	< 30	82.9%	76.6%	50 - 150	
Kiesoxim-methyl	0.012	0.584	0.549	0.80	6.4%	< 30	71.9%	67.1%	50 - 150	
Malathion	0.015	0.304	0.314	0.40	3.5%	< 30	72.2%	74.8%	50 - 150	
Metaxyl	0.007	0.318	0.307	0.40	3.7%	< 30	77.8%	74.8%	50 - 150	
Methiocarb	0.003	0.230	0.269	0.40	7.6%	< 30	71.8%	66.8%	50 - 150	
Methomyl	0.00	0.580	0.653	0.80	11.9%	< 30	72.9%	81.6%	50 - 150	
MCK-264	0.00	0.251	0.248	0.40	1.2%	< 30	62.8%	61.9%	50 - 150	
Mydobutani	0.00	0.329	0.305	0.40	7.1%	< 30	82.1%	76.9%	50 - 150	
Naled	0.00	0.775	0.743	1.00	4.3%	< 30	77.9%	74.3%	50 - 150	
Oxamyl	0.00	1.763	1.695	2.00	3.9%	< 30	88.2%	84.8%	50 - 150	
Padobutrazole	0.00	0.614	0.577	0.80	6.2%	< 30	76.8%	72.2%	50 - 150	
Parathion-Methyl	0.00	0.289	0.287	0.40	0.6%	< 30	72.2%	71.7%	30 - 150	
Permethrin	0.00	0.250	0.251	0.40	0.3%	< 30	62.9%	62.7%	50 - 150	
Phosmet	0.00	0.308	0.305	0.40	0.9%	< 30	77.0%	76.3%	50 - 150	
Piperonyl butoxide	0.009	1.233	1.235	2.00	0.3%	< 30	61.2%	61.4%	50 - 150	
Prallethrin	0.001	0.204	0.205	0.40	1.3%	< 30	50.8%	51.3%	50 - 150	
Propiconazole	0.00	0.539	0.539	0.80	0.0%	< 30	67.4%	67.4%	50 - 150	
Propoxur	0.003	0.328	0.307	0.40	6.5%	< 30	81.1%	76.0%	50 - 150	
Pyrethrin (Summe)	0.00	0.323	0.325	0.48	1.2%	< 30	66.0%	66.8%	50 - 150	
Pyridaben	0.00	0.179	0.174	0.40	2.6%	< 30	44.7%	43.9%	50 - 150	Q
Spirosad	0.00	0.248	0.243	0.38	1.9%	< 30	63.9%	62.7%	50 - 150	
Spiromesfen	0.003	0.228	0.220	0.40	3.5%	< 30	56.1%	54.1%	50 - 150	
Spirotetramat	0.00	0.369	0.353	0.40	4.3%	< 30	92.1%	88.3%	50 - 150	
Spiroxamine	0.00	0.657	0.639	0.80	2.8%	< 30	82.1%	79.8%	50 - 150	
Tebuconazole	0.00	0.607	0.602	0.80	0.9%	< 30	75.9%	75.3%	50 - 150	
Thiadoprid	0.00	0.337	0.320	0.40	5.1%	< 30	84.3%	80.1%	50 - 150	
Thiamethoxam	0.00	0.333	0.313	0.40	6.1%	< 30	83.2%	78.3%	50 - 150	
Trifloxystrobin	0.00	0.254	0.260	0.40	2.5%	< 30	63.4%	65.0%	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.