

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	<LOQ 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: 23-005890/D003.R000
Report Date: 05/23/2023
ORELAP#: OR100028
Purchase Order:
Received: 05/16/23 16:34

Customer: Etz Hayim Holdings
Product identity: FORM-TN.FS.SLP50-FC52
Client/Metric ID: .
Laboratory ID: 23-005890-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	1.57		mg/1g		CBD-Total per Serving Size 31.5 mg/1g
CBD per 1g	31.5		mg/1g		
CBDV per 1g	0.197		mg/1g		THC-Total per Serving Size 0.910 mg/1g
CBE per 1g	0.605		mg/1g		(Reported in milligrams per serving)
CBG per 1g	10.6		mg/1g		
CBL per 1g	0.139		mg/1g		
CBN per 1g	11.0		mg/1g		
CBT per 1g	1.20		mg/1g		
Δ9-THC per 1g	0.910		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	0.0438	30.00%	α-Bisabolol	0.0388	26.58%
(-)-caryophyllene oxide	0.0364	24.93%	Humulene	0.0269	18.42%
Total Terpenes	0.146	100.00%			

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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

Product identity: FORM-TN.FS.SLP50-FC52

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-005890-0001

Evidence of Cooling: No

Temp: 24.9

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: 2307426	Analyze: 5/17/23 8:29:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	1.57		mg/1g	0.0326	
CBC-A per 1g	< LOQ		mg/1g	0.0326	
CBC-Total per 1g	1.57		mg/1g	0.0612	
CBD per 1g	31.5		mg/1g	0.326	
CBD-A per 1g	< LOQ		mg/1g	0.0326	
CBD-Total per 1g	31.5		mg/1g	0.355	
CBDV per 1g	0.197		mg/1g	0.0326	
CBDV-A per 1g	< LOQ		mg/1g	0.0326	
CBDV-Total per 1g	0.197		mg/1g	0.0609	
CBE per 1g	0.605		mg/1g	0.0326	
CBG per 1g	10.6		mg/1g	0.326	
CBG-A per 1g	< LOQ		mg/1g	0.0326	
CBG-Total per 1g	10.6		mg/1g	0.354	
CBL per 1g	0.139		mg/1g	0.0326	
CBL-A per 1g	< LOQ		mg/1g	0.0326	
CBL-Total per 1g	0.139		mg/1g	0.0612	
CBN per 1g	11.0		mg/1g	0.326	
CBT per 1g	1.20		mg/1g	0.0326	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0326	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0326	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0326	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0652	
Δ8-THC per 1g	< LOQ		mg/1g	0.0326	
Δ9-THC per 1g	0.910		mg/1g	0.0326	
exo-THC per 1g	< LOQ		mg/1g	0.0326	
THC-A per 1g	< LOQ		mg/1g	0.0326	
THC-Total per 1g	0.910		mg/1g	0.0612	
THCV per 1g	< LOQ		mg/1g	0.0326	
THCV-A per 1g	< LOQ		mg/1g	0.0326	
THCV-Total per 1g	< LOQ		mg/1g	0.0612	



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Report Number: 23-005890/D003.R000
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Received: 05/16/23 16:34

Potency per 1g	Method: J AOAC 2015 V98-6 (mod) ^P	Units mg/se	Batch: 2307426	Analyze: 5/17/23 8:29:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 1g	57.7		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2307414	05/20/23 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2307414	05/20/23 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2307415	05/21/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2307415	05/21/23 AOAC 2014.05 (RAPID) ^P		

Solvents	Method: Residual Solvents by GC/MS ^P					Units µg/g	Batch 2307514	Analyze 05/22/23 11:29 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-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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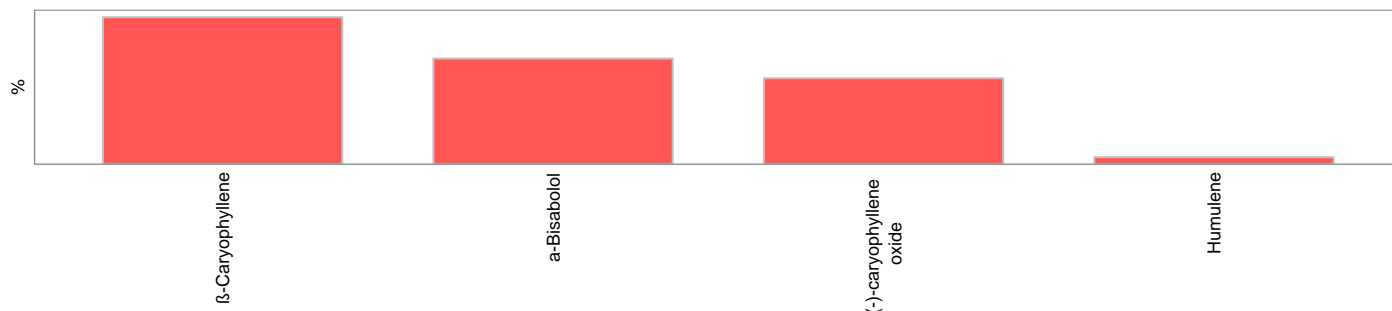


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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod) ^b											
Units mg/kg Batch 2307557 Analyze 05/23/23 09:36 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		Acephate [‡]	< LOQ	0.40	0.200	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		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 2307526	Analyze 05/20/23 05:32 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Caryophyllene	0.0438	0.018	30.0000%		a-Bisabolol	0.0388	0.018	26.5753%	
(-)-caryophyllene oxide	0.0364	0.018	24.9315%		Humulene	0.0269	0.018	18.4247%	
(+)-Cedrol	< LOQ	0.018	0.00%		(-)-Guaiol	< LOQ	0.018	0.00%	
(±)-cis-Nerolidol	< LOQ	0.018	0.00%		Eucalyptol	< LOQ	0.018	0.00%	
(R)-(+)-Limonene	< LOQ	0.018	0.00%		cis-β-Ocimene	< LOQ	0.006	0.00%	
Geraniol	< LOQ	0.018	0.00%		Sabinene	< LOQ	0.018	0.00%	
α-Terpinene	< LOQ	0.018	0.00%		(-)-β-Pinene	< LOQ	0.018	0.00%	
β-Myrcene	< LOQ	0.018	0.00%		p-Cymene	< LOQ	0.018	0.00%	
(+)-Pulegone	< LOQ	0.018	0.00%		(±)-Camphor	< LOQ	0.018	0.00%	
Sabinene hydrate	< LOQ	0.018	0.00%		trans-β-Ocimene	< LOQ	0.012	0.00%	
(+)-Borneol	< LOQ	0.018	0.00%		(+)-fenchol	< LOQ	0.018	0.00%	
Linalool	< LOQ	0.018	0.00%		(±)-fenchone	< LOQ	0.018	0.00%	
γ-Terpinene	< LOQ	0.018	0.00%		(±)-trans-Nerolidol	< LOQ	0.018	0.00%	
valencene	< LOQ	0.018	0.00%		Isoborneol	< LOQ	0.018	0.00%	
(-)-α-Terpineol	< LOQ	0.018	0.00%		(-)-Isopulegol	< LOQ	0.018	0.00%	
α-cedrene	< LOQ	0.018	0.00%		α-phellandrene	< LOQ	0.018	0.00%	
α-pinene	< LOQ	0.018	0.00%		Camphene	< LOQ	0.018	0.00%	
d-3-Carene	< LOQ	0.018	0.00%		farnesene	< LOQ	0.018	0.00%	
Geranyl acetate	< LOQ	0.018	0.00%		Menthol	< LOQ	0.018	0.00%	
nerol	< LOQ	0.018	0.00%		Terpinolene	< LOQ	0.018	0.00%	
Total Terpenes	0.146								



Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic [‡]	< LOQ	0.200	mg/kg	0.0896	2307509	05/19/23 AOAC 2013.06 (mod.) [‡]	pass	
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0896	2307509	05/19/23 AOAC 2013.06 (mod.) [‡]	pass	
Lead [‡]	< LOQ	0.500	mg/kg	0.0896	2307509	05/19/23 AOAC 2013.06 (mod.) [‡]	pass	
Mercury [‡]	< LOQ	0.100	mg/kg	0.0448	2307509	05/19/23 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: 1 Document ID: 7148
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2307426

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDA	2	0.0322	0.0305	%	106	80.0 - 120	Acceptable	
CBV	2	0.0312	0.0296	%	105	80.0 - 120	Acceptable	
CEE	2	0.0353	0.0339	%	104	80.0 - 120	Acceptable	
CBDA	1	0.0310	0.0311	%	99.5	90.0 - 110	Acceptable	
CBGA	1	0.0309	0.0311	%	99.6	80.0 - 120	Acceptable	
CBG	1	0.0323	0.0322	%	100	80.0 - 120	Acceptable	
CB	1	0.0321	0.0323	%	99.2	90.0 - 110	Acceptable	
THCV	2	0.0243	0.0226	%	108	80.0 - 120	Acceptable	
δ8THCV	2	0.0272	0.0266	%	102	80.0 - 120	Acceptable	
THCVA	2	0.0331	0.0313	%	106	80.0 - 120	Acceptable	
CBN	1	0.0330	0.0329	%	100	80.0 - 120	Acceptable	
exo-THC	2	0.0315	0.0307	%	103	80.0 - 120	Acceptable	
δ9THC	1	0.0347	0.0341	%	102	90.0 - 110	Acceptable	
δ8THC	1	0.0420	0.0420	%	99.8	90.0 - 110	Acceptable	
9SaTHC	1	0.0241	0.0240	%	100	80.0 - 120	Acceptable	
CB	2	0.0366	0.0323	%	114	80.0 - 120	Acceptable	
9RaTHC	1	0.0309	0.0310	%	99.5	80.0 - 120	Acceptable	
CB	2	0.0304	0.0302	%	101	80.0 - 120	Acceptable	
THCA	1	0.0311	0.0314	%	99.2	90.0 - 110	Acceptable	
CBGA	2	0.0339	0.0324	%	105	80.0 - 120	Acceptable	
CBLA	2	0.0334	0.0321	%	104	80.0 - 120	Acceptable	
δ9THCP	2	0.0324	0.0315	%	103	80.0 - 120	Acceptable	
CB	2	0.0345	0.0331	%	104	80.0 - 120	Acceptable	

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<LOQ	0.00319	%	< 0.00319	Acceptable	
CBV	<LOQ	0.00319	%	< 0.00319	Acceptable	
CEE	<LOQ	0.00319	%	< 0.00319	Acceptable	
CBDA	0.00477	0.00319	%	< 0.00319	Outlier	B1 (except 23-0057880001)
CBGA	<LOQ	0.00319	%	< 0.00319	Acceptable	
CBG	<LOQ	0.00319	%	< 0.00319	Acceptable	
CB	<LOQ	0.00319	%	< 0.00319	Acceptable	
THCV	<LOQ	0.00319	%	< 0.00319	Acceptable	
δ8THCV	<LOQ	0.00319	%	< 0.00319	Acceptable	
THCVA	<LOQ	0.00319	%	< 0.00319	Acceptable	
CBN	<LOQ	0.00319	%	< 0.00319	Acceptable	
exo-THC	<LOQ	0.00319	%	< 0.00319	Acceptable	
δ9THC	<LOQ	0.00319	%	< 0.00319	Acceptable	
δ8THC	<LOQ	0.00319	%	< 0.00319	Acceptable	
9SaTHC	<LOQ	0.00319	%	< 0.00319	Acceptable	
CB	<LOQ	0.00319	%	< 0.00319	Acceptable	
9RaTHC	<LOQ	0.00319	%	< 0.00319	Acceptable	
CB	<LOQ	0.00319	%	< 0.00319	Acceptable	
THCA	<LOQ	0.00319	%	< 0.00319	Acceptable	
CBGA	<LOQ	0.00319	%	< 0.00319	Acceptable	
CBLA	<LOQ	0.00319	%	< 0.00319	Acceptable	
δ9THCP	<LOQ	0.00319	%	< 0.00319	Acceptable	
CB	<LOQ	0.00319	%	< 0.00319	Acceptable	

Abbreviations

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- B1 - The sample concentration is greater than 5 times the blank concentration.

Units of Measure:

% - Percent



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Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2307426						
Sample Duplicate		Sample ID: 23-0057880001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDA	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CBDV	0.0659	0.0656	0.00322	%	0.515	< 20	Acceptable	
CBF	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CBDA	0.00376	0.00375	0.00322	%	0.0535	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CBG	11.3	12.2	0.00322	%	7.74	< 20	Acceptable	
CB	11.6	12.6	0.00322	%	8.10	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
δ8THCV	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CBN	0.00803	0.00768	0.00322	%	4.46	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
δ9THC	0.0395	0.0398	0.00322	%	0.575	< 20	Acceptable	
δ8THC	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
9Sδ10THC	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
9Rδ10THC	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CB	0.0482	0.0469	0.00322	%	2.81	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
δ9THCP	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CB	0.183	0.183	0.00322	%	0.0271	< 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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Report Number: 23-005890/D003.R000
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Revision: 2 Document ID: 7087
 Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2307514					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		532	584	µg/g	91.1	60 - 120	
Isobutane	ND	< 200		671	767	µg/g	87.5	60 - 120	
Butane	ND	< 200		676	782	µg/g	86.3	60 - 120	
2,2-Dimethylpropane	ND	< 200		941	939	µg/g	100.2	60 - 120	
Methanol	ND	< 200		1340	1610	µg/g	83.2	60 - 120	
Ethylene Oxide	ND	< 30		52	57.1	µg/g	91.1	60 - 120	
2-Methylbutane	ND	< 200		1230	1600	µg/g	76.9	60 - 120	
Pentane	ND	< 200		1240	1610	µg/g	77.0	60 - 120	
Ethanol	ND	< 200		1260	1600	µg/g	78.8	70 - 130	
Ethyl Ether	ND	< 200		1260	1610	µg/g	78.3	60 - 120	
2,2-Dimethylbutane	ND	< 30		134	173	µg/g	77.5	60 - 120	
Acetone	ND	< 200		1280	1620	µg/g	79.0	60 - 120	
2-Propanol	ND	< 200		1250	1600	µg/g	78.1	60 - 120	
Ethyl Formate	ND	< 500		1510	1610	µg/g	93.8	70 - 130	
Acetonitrile	ND	< 100		380	488	µg/g	77.9	60 - 120	
Methyl Acetate	ND	< 500		1370	1610	µg/g	85.1	70 - 130	
2,3-Dimethylbutane	ND	< 30		127	165	µg/g	77.0	60 - 120	
Dichloromethane	ND	< 60		382	487	µg/g	78.4	60 - 120	
2-Methylpentane	ND	< 30		121	160	µg/g	75.6	60 - 120	
MTBE	ND	< 500		1420	1600	µg/g	88.8	70 - 130	
3-Methylpentane	ND	< 30		126	161	µg/g	78.3	60 - 120	
Hexane	ND	< 30		126	162	µg/g	77.8	60 - 120	
1-Propanol	ND	< 500		1470	1620	µg/g	90.7	70 - 130	
Methyl ethyl ketone	ND	< 500		1440	1610	µg/g	89.4	70 - 130	
Ethyl acetate	ND	< 200		1240	1600	µg/g	77.5	60 - 120	
2-Butanol	ND	< 200		1250	1610	µg/g	77.6	60 - 120	
Tetrahydrofuran	ND	< 100		377	483	µg/g	78.1	60 - 120	
Cyclohexane	ND	< 200		1270	1610	µg/g	78.9	60 - 120	
2-methyl-1-propanol	ND	< 500		1480	1630	µg/g	90.8	70 - 130	
Benzene	ND	< 1		3.85	4.98	µg/g	77.3	60 - 120	
Isopropyl Acetate	ND	< 200		1240	1610	µg/g	77.0	60 - 120	
Heptane	ND	< 200		1280	1620	µg/g	77.8	60 - 120	
1-Butanol	ND	< 500		1460	1600	µg/g	91.3	70 - 130	
Propyl Acetate	ND	< 500		1460	1620	µg/g	90.1	70 - 130	
1,4-Dioxane	ND	< 100		383	494	µg/g	77.5	60 - 120	
2-Ethoxyethanol	ND	< 30		135	165	µg/g	81.8	60 - 120	
Methylisobutylketone	ND	< 500		1450	1610	µg/g	90.1	70 - 130	
3-Methyl-1-butanol	ND	< 500		1380	1610	µg/g	85.3	70 - 130	
Ethylene Glycol	ND	< 200		310	488	µg/g	63.8	60 - 120	
Toluene	ND	< 100		374	513	µg/g	72.9	60 - 120	
Isobutyl Acetate	ND	< 500		1430	1600	µg/g	89.4	70 - 130	
1-Pentanol	ND	< 500		1400	1610	µg/g	87.0	70 - 130	
Butyl Acetate	ND	< 500		1450	1610	µg/g	90.1	70 - 130	
Ethylbenzene	ND	< 200		742	967	µg/g	76.7	60 - 120	
m,p-Xylene	ND	< 200		798	994	µg/g	80.3	60 - 120	
o-Xylene	ND	< 200		751	992	µg/g	75.7	60 - 120	
Cumene	ND	< 30		132	171	µg/g	77.2	60 - 120	
Anisole	ND	< 500		1420	1610	µg/g	88.2	70 - 130	
DMSO	ND	< 500		1180	1610	µg/g	73.3	70 - 130	
1,2-dimethoxyethane	ND	< 50		157	172	µg/g	91.3	70 - 130	
Triethylamine	ND	< 500		1510	1620	µg/g	93.2	70 - 130	
N,N-dimethylformamide	ND	< 150		440	499	µg/g	88.2	70 - 130	
N,N-dimethylacetamide	ND	< 150		367	491	µg/g	74.7	70 - 130	
Pyridine	ND	< 50		153	171	µg/g	89.5	70 - 130	
Silolane	ND	< 50		145	160	µg/g	90.6	70 - 130	
1,2-Dichloroethane	ND	< 1		0.957	1	µg/g	95.7	70 - 130	
Chloroform	ND	< 1		0.978	1	µg/g	97.8	70 - 130	
Trichloroethylene	ND	< 1		0.903	1	µg/g	90.3	70 - 130	
1,1,1-Trichloroethane	ND	< 1		0.963	1	µg/g	96.3	70 - 130	



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QC- Sample Duplicate Sample ID: 23-005910-0001

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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Revision: 1 Document ID: 7086
 Legacy ID: CFL-E57Worksheet Validated 11/04/2020

Terpenes Quality Control Results

Method Reference: EPA5035				Batch ID: 2307526					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS% Rec	Limits	Notes
a-pinene	<LOQ	< 200		492	500	µg/g	98%	70 - 130	
Camphene	<LOQ	< 200		492	500	µg/g	98%	70 - 130	
Sabinene	<LOQ	< 200		486	500	µg/g	97%	70 - 130	
b-Pinene	<LOQ	< 200		479	500	µg/g	96%	70 - 130	
b-Myrcene	<LOQ	< 200		481	500	µg/g	96%	70 - 130	
a-phellandrene	<LOQ	< 200		506	500	µg/g	101%	70 - 130	
d-3-Carene	<LOQ	< 200		503	500	µg/g	101%	70 - 130	
a-Terpinene	<LOQ	< 200		497	500	µg/g	99%	70 - 130	
p-Cymene	<LOQ	< 200		487	500	µg/g	97%	70 - 130	
D-Limonene	<LOQ	< 200		491	500	µg/g	98%	70 - 130	
Eucalyptol	<LOQ	< 200		497	500	µg/g	99%	70 - 130	
b-cis-Cimene	<LOQ	< 67		156	167	µg/g	93%	70 - 130	
b-trans-Cimene	<LOQ	< 133		333	333	µg/g	100%	70 - 130	
g-Terpinene	<LOQ	< 200		484	500	µg/g	97%	70 - 130	
Sabinene Hydrate	<LOQ	< 200		514	500	µg/g	103%	70 - 130	
Terpinolene	<LOQ	< 200		501	500	µg/g	100%	70 - 130	
D-Fenchone	<LOQ	< 200		501	500	µg/g	100%	70 - 130	
Linalool	<LOQ	< 200		529	500	µg/g	106%	70 - 130	
Fenchol	<LOQ	< 200		508	500	µg/g	102%	70 - 130	
Camphor	<LOQ	< 200		503	500	µg/g	101%	70 - 130	
Isopulego	<LOQ	< 200		516	500	µg/g	103%	70 - 130	
Isoborneol	<LOQ	< 200		523	500	µg/g	105%	70 - 130	
Borneol	<LOQ	< 200		526	500	µg/g	105%	70 - 130	
DL-Menthol	<LOQ	< 200		496	500	µg/g	99%	70 - 130	
Terpineol	<LOQ	< 200		531	500	µg/g	106%	70 - 130	
Nerd	<LOQ	< 200		485	500	µg/g	97%	70 - 130	
Pulegone	<LOQ	< 200		524	500	µg/g	105%	70 - 130	
Geraniol	<LOQ	< 200		504	500	µg/g	101%	70 - 130	
Geranyl Acetate	<LOQ	< 200		506	500	µg/g	101%	70 - 130	
a-Cedrene	<LOQ	< 200		511	500	µg/g	102%	70 - 130	
b-Caryophyllene	<LOQ	< 200		510	500	µg/g	102%	70 - 130	
a-Humulene	<LOQ	< 200		527	500	µg/g	105%	70 - 130	
Valene	<LOQ	< 200		479	500	µg/g	96%	70 - 130	
cis-Nerolidol	<LOQ	< 200		520	500	µg/g	104%	70 - 130	
a-Farnesene	<LOQ	< 200		530	500	µg/g	106%	70 - 130	
trans-Nerolidol	<LOQ	< 200		529	500	µg/g	106%	70 - 130	
Caryophyllene Oxide	<LOQ	< 200		519	500	µg/g	104%	70 - 130	
Guaiol	<LOQ	< 200		534	500	µg/g	107%	70 - 130	
Cedrol	<LOQ	< 200		526	500	µg/g	105%	70 - 130	
a-Bisabolol	<LOQ	< 200		520	500	µg/g	104%	70 - 130	

Definitions

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



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Terpenes Quality Control Results

Method Reference: EPA5035		Batch ID: 2307526					
Sample/ Sample Duplicate		Sample ID: 23-005874-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	2470	2460	191	µg/g	0%	< 20	
Camphene	466	477	191	µg/g	2%	< 20	
Sabinene	<LOQ	<LOQ	191	µg/g	0%	< 20	
b-Pinene	3110	3110	191	µg/g	0%	< 20	
b-Myrcene	3780	3770	191	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	191	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	191	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	191	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	191	µg/g	0%	< 20	
D-Limonene	31400	31400	191	µg/g	0%	< 20	
Eucalyptol	<LOQ	<LOQ	191	µg/g	0%	< 20	
b-cis-Cimene	<LOQ	<LOQ	63.7	µg/g	0%	< 20	
b-trans-Cimene	<LOQ	<LOQ	127	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	191	µg/g	0%	< 20	
Sabinene Hydrate	<LOQ	<LOQ	191	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	191	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	191	µg/g	0%	< 20	
Linalool	4420	4400	191	µg/g	0%	< 20	
Fenchol	2460	2470	191	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	191	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	191	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	191	µg/g	0%	< 20	
Borneol	348	348	191	µg/g	0%	< 20	
DL-Menthhol	<LOQ	<LOQ	191	µg/g	0%	< 20	
Terpineol	1450	1490	191	µg/g	3%	< 20	
Nerd	<LOQ	<LOQ	191	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	191	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	191	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	191	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	191	µg/g	0%	< 20	
b-Caryophyllene	3990	4020	191	µg/g	1%	< 20	
a-Humulene	852	850	191	µg/g	0%	< 20	
Valnene	<LOQ	<LOQ	191	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	191	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	191	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	191	µg/g	0%	< 20	
Caryophyllene_Oxide	938	956	191	µg/g	2%	< 20	
Guaiol	<LOQ	<LOQ	191	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	191	µg/g	0%	< 20	
a-Bisabolol	<LOQ	<LOQ	191	µg/g	0%	< 20	

Definitions

RPD Relative Percent Difference



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Laboratory Pesticide Quality Control Results

AOAC2007.1 &EN 15662		Units: mg/Kg			Batch ID 2307557			
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spk	LCS % Re	Limits	Notes
Abamectin	0.00	< 0.250		0.883	1.000	88.3	50.0	150
Acephate	0.00	< 0.200		0.810	0.800	101.2	60.0	120
Acetamiprid	0.00	< 1.000		3.545	4.000	88.6	40.0	160
Acetamiprid	0.00	< 0.100		0.368	0.400	92.1	60.0	120
Aldicarb	0.00	< 0.200		0.736	0.800	92.0	60.0	120
Azoxystrobin	0.00	< 0.100		0.366	0.400	91.1	60.0	120
Bifenazate	0.00	< 0.100		0.400	0.400	99.9	60.0	120
Bifenthrin	0.00	< 0.100		0.361	0.400	90.1	50.0	150
Boscalid	0.00	< 0.200		0.762	0.800	95.3	60.0	120
Carbaryl	0.00	< 0.100		0.368	0.400	92.1	60.0	120
Carbendazim	0.00	< 0.100		0.367	0.400	91.9	60.0	120
Chlorantraniliprole	0.00	< 0.100		0.372	0.400	93.1	60.0	120
Chlorfenapyr	0.00	< 0.500		1.675	2.000	83.8	60.0	120
Chlorpyrifos	0.00	< 0.100		0.360	0.400	90.0	60.0	120
Clofentezine	0.00	< 0.100		0.356	0.400	89.0	60.0	120
Cyfluthrin	0.00	< 0.500		1.802	2.000	90.1	50.0	150
Cypermethrin	0.00	< 0.500		1.837	2.000	91.8	50.0	150
Daminozide	0.00	< 0.500		0.617	2.000	30.9	60.0	120
Diazonon	0.00	< 0.100		0.369	0.400	92.4	60.0	120
Dichlorvos	0.00	< 0.500		1.858	2.000	92.9	60.0	120
Dimethoate	0.00	< 0.100		0.299	0.400	74.7	60.0	120
Ethionphos	0.00	< 0.100		0.360	0.400	90.0	60.0	120
Etofenprox	0.00	< 0.200		0.726	0.800	90.8	50.0	150
Etoxazole	0.00	< 0.100		0.373	0.400	93.2	60.0	120
Fenoxycarb	0.00	< 0.100		0.369	0.400	92.3	60.0	120
Fenprophate	0.00	< 0.200		0.753	0.800	94.1	60.0	120
Fipronil	0.00	< 0.200		0.743	0.800	92.9	60.0	120
Fonicamid	0.00	< 0.250		0.789	1.000	78.9	60.0	120
Fludioxonil	0.00	< 0.200		0.778	0.800	97.2	50.0	150
Hexythiazox	0.00	< 0.250		0.915	1.000	91.5	60.0	120
Imazalil	0.00	< 0.100		0.374	0.400	93.5	60.0	120
Imidacloprid	0.00	< 0.200		0.569	0.800	71.2	60.0	120
Kiesoxim-methyl	0.00	< 0.200		0.731	0.800	91.4	60.0	120
Malathion	0.00	< 0.100		0.355	0.400	88.7	60.0	120
Metolaxyl	0.00	< 0.100		0.368	0.400	91.9	60.0	120
Methiocarb	0.00	< 0.100		0.372	0.400	93.1	60.0	120
Methomyl	0.00	< 0.200		0.621	0.800	77.6	60.0	120
MCK-264	0.00	< 0.100		0.359	0.400	89.7	50.0	150
Mydobutanol	0.00	< 0.100		0.368	0.400	91.7	60.0	120
Naled	0.00	< 0.250		0.922	1.000	92.2	50.0	150
Oxamyl	0.00	< 0.500		1.581	2.000	79.0	60.0	120
Padobutrazole	0.00	< 0.200		0.721	0.800	90.1	60.0	120
Parathion-Methyl	0.00	< 0.100		0.338	0.400	84.6	50.0	150
Permethrin	0.00	< 0.100		0.361	0.400	90.3	50.0	150
Phosmet	0.00	< 0.100		0.370	0.400	92.5	50.0	150
Piperonyl butoxide	0.00	< 0.500		1.833	2.000	91.7	60.0	120
Prallethrin	0.00	< 0.100		0.373	0.400	93.3	60.0	120
Propiconazole	0.00	< 0.200		0.746	0.800	93.1	60.0	120
Propoxur	0.00	< 0.100		0.363	0.400	90.7	60.0	120
Pyrethrin (Summe)	0.00	< 0.100		0.442	0.488	90.6	60.0	120
Pyridaben	0.00	< 0.100		0.369	0.400	92.3	50.0	150
Spinosad	0.00	< 0.100		0.355	0.388	91.6	50.0	150
Spiromesfen	0.00	< 0.100		0.372	0.400	92.9	60.0	120
Spirotetramat	0.00	< 0.100		0.370	0.400	92.6	60.0	120
Spiroxamine	0.00	< 0.200		0.740	0.800	92.5	60.0	120
Tebuconazole	0.00	< 0.200		0.733	0.800	91.6	60.0	120
Thiadoprid	0.00	< 0.100		0.370	0.400	92.5	60.0	120
Thiamethoxam	0.00	< 0.100		0.330	0.400	82.6	60.0	120
Trifloxystrobin	0.00	< 0.100		0.364	0.400	91.1	60.0	120

Q6



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



Report Number: 23-005890/D003.R000
 Report Date: 05/23/2023
 ORELAP#: OR100028
 Purchase Order:
 Received: 05/16/23 16:34

Revision: 3 Document ID: 3120
 LegacyID: CFLC21WorksheetValidated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662										
Units: mg/Kg										Batch ID 2307557
Matrix Spike/Matrix Spike Duplicate Recoveries										Sample ID: 23-0058900001
Analyte	Result	MS Res	MSD Res	Spike	RFD%	Limit	MS% Re	MSD% Re	Limits	Notes
Abamectin	0.00	0.74	0.818	1.00	5.5%	< 30	77.4%	81.8%	50 - 150	
Acaphate	0.00	0.655	0.699	0.800	6.6%	< 30	81.8%	87.4%	50 - 150	
Acetaminophyl	0.00	1.465	1.492	4.000	1.8%	< 30	36.8%	37.3%	50 - 150	Q
Acetamiprid	0.00	0.347	0.354	0.400	1.9%	< 30	86.9%	88.0%	50 - 150	
Aldicarb	0.00	0.698	0.726	0.800	4.0%	< 30	87.2%	90.8%	50 - 150	
Azoxystrobin	0.00	0.277	0.283	0.400	2.1%	< 30	69.3%	70.8%	50 - 150	
Bifenazate	0.00	0.304	0.301	0.400	1.0%	< 30	76.0%	75.2%	50 - 150	
Bifenthrin	0.00	0.180	0.186	0.400	3.1%	< 30	45.0%	46.4%	50 - 150	Q
Boscalid	0.00	0.556	0.592	0.800	6.2%	< 30	69.8%	74.0%	50 - 150	
Carbaryl	0.00	0.301	0.301	0.400	0.1%	< 30	75.3%	75.3%	50 - 150	
Carbendazim	0.00	0.305	0.310	0.400	1.5%	< 30	76.3%	77.4%	50 - 150	
Chlorantraniliprole	0.00	0.337	0.342	0.400	1.3%	< 30	84.3%	85.4%	50 - 150	
Chlorfenapyr	0.00	1.254	1.191	2.000	5.2%	< 30	62.7%	59.5%	50 - 150	
Chlorpyrifos	0.00	0.336	0.323	0.400	4.1%	< 30	84.0%	80.0%	50 - 150	
Clofentezine	0.00	0.270	0.275	0.400	2.0%	< 30	67.4%	68.8%	50 - 150	
Cyfluthrin	0.00	1.050	1.029	2.000	2.0%	< 30	52.3%	51.3%	30 - 150	
Cypermethrin	0.00	1.069	1.084	2.000	1.4%	< 30	53.4%	54.2%	50 - 150	
Daminozide	0.00	0.606	0.641	2.000	5.6%	< 30	30.3%	32.1%	30 - 150	
Diazinon	0.00	0.207	0.218	0.400	5.3%	< 30	51.8%	54.0%	50 - 150	
Dichlorvos	0.00	1.599	1.604	2.000	0.3%	< 30	79.9%	80.2%	50 - 150	
Dimethoate	0.00	0.337	0.348	0.400	3.4%	< 30	84.2%	87.0%	50 - 150	
Ethionphos	0.00	0.279	0.279	0.400	0.0%	< 30	69.8%	69.8%	50 - 150	
Etofenprox	0.00	0.313	0.316	0.800	1.0%	< 30	39.2%	39.5%	50 - 150	Q
Etoxazole	0.00	0.254	0.270	0.400	6.1%	< 30	63.5%	67.5%	50 - 150	
Fenoxycarb	0.00	0.263	0.280	0.400	6.1%	< 30	65.8%	69.9%	50 - 150	
Fenpyroximate	0.00	0.273	0.289	0.800	5.7%	< 30	34.1%	36.1%	50 - 150	Q
Fipronil	0.00	0.455	0.462	0.800	1.7%	< 30	56.8%	57.8%	50 - 150	
Fonicamid	0.00	0.824	0.908	1.000	9.7%	< 30	82.4%	90.8%	50 - 150	
Fludioxonil	0.00	0.926	0.949	0.800	2.4%	< 30	115.7%	118.6%	50 - 150	
Hexythiazox	0.00	0.614	0.641	1.000	4.3%	< 30	61.4%	64.1%	50 - 150	
Imazalil	0.00	0.328	0.349	0.400	6.3%	< 30	79.7%	84.9%	50 - 150	
Imidacloprid	0.00	0.625	0.661	0.800	5.6%	< 30	78.1%	82.7%	50 - 150	
Kiesoxim-methyl	0.00	0.525	0.553	0.800	5.4%	< 30	65.8%	69.2%	50 - 150	
Malathion	0.00	0.274	0.286	0.400	4.5%	< 30	67.8%	70.9%	50 - 150	
Metaxyl	0.00	0.313	0.330	0.400	5.4%	< 30	78.2%	82.0%	50 - 150	
Methiocarb	0.00	0.290	0.301	0.400	4.0%	< 30	72.4%	75.3%	50 - 150	
Methomyl	0.00	0.672	0.683	0.800	1.7%	< 30	84.0%	85.4%	50 - 150	
MCK-264	0.00	0.208	0.215	0.400	3.7%	< 30	51.9%	53.9%	50 - 150	
Mydobutani	0.00	0.283	0.305	0.400	7.5%	< 30	70.7%	76.2%	50 - 150	
Naled	0.00	0.738	0.741	1.000	0.4%	< 30	73.8%	74.1%	50 - 150	
Oxaryl	0.00	1.644	1.741	2.000	5.7%	< 30	82.2%	87.1%	50 - 150	
Padobutrazole	0.00	0.523	0.559	0.800	6.6%	< 30	65.4%	69.8%	50 - 150	
Parathion-Methyl	0.00	0.209	0.223	0.400	6.8%	< 30	52.2%	55.9%	30 - 150	
Permethrin	0.00	0.223	0.225	0.400	0.8%	< 30	55.7%	56.1%	50 - 150	
Phosmet	0.00	0.280	0.305	0.400	8.9%	< 30	70.0%	76.0%	50 - 150	
Piperonyl butoxide	0.00	1.414	1.496	2.000	5.7%	< 30	70.7%	74.8%	50 - 150	
Prallethrin	0.00	0.257	0.261	0.400	1.5%	< 30	64.3%	65.3%	50 - 150	
Propiconazole	0.00	0.533	0.561	0.800	5.2%	< 30	66.8%	70.2%	50 - 150	
Propoxur	0.00	0.329	0.321	0.400	2.6%	< 30	82.3%	80.1%	50 - 150	
Pyrethrin (Summe)	0.00	0.312	0.327	0.488	4.6%	< 30	64.0%	67.1%	50 - 150	
Pyridaben	0.00	0.179	0.185	0.400	3.2%	< 30	44.8%	46.2%	50 - 150	Q
Spirosad	0.00	0.275	0.280	0.388	2.1%	< 30	70.8%	72.2%	50 - 150	
Spiromesfen	0.00	0.253	0.269	0.400	6.4%	< 30	63.1%	67.3%	50 - 150	
Spirotetramat	0.00	0.441	0.452	0.400	2.4%	< 30	110.2%	112.9%	50 - 150	
Spiroxamine	0.00	0.618	0.667	0.800	7.7%	< 30	77.2%	83.4%	50 - 150	
Tebuconazole	0.00	0.508	0.532	0.800	4.5%	< 30	63.9%	66.5%	50 - 150	
Thiadoprid	0.00	0.345	0.352	0.400	2.0%	< 30	86.3%	88.0%	50 - 150	
Thiamethoxam	0.00	0.349	0.363	0.400	3.9%	< 30	87.3%	90.8%	50 - 150	
Trifloxystrobin	0.00	0.253	0.265	0.400	4.5%	< 30	63.2%	66.2%	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.