

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU SG50.V2	BATCH # FE33(A)	LOQ: Limit Of Quantitation
PRODUCT NAME CBD Softgels	SERVING SIZE 1 softgel (0.425g)	LOD: Limit Of Detection
LABORATORY: Columbia Laboratories	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)	54.83 mg/serving	129.00 mg/g	12.90 %
Total THC (d9-THC, THCA)	1.16 mg/serving	2.73 mg/g	0.27 %
Cannabigerol (CBG)	0.51 mg/serving	1.190 mg/g	0.12 %
Cannabinol (CBN)	0.43 mg/serving	1.00 mg/g	0.10 %
Cannabichromene (CBC)	2.27 mg/serving	5.35 mg/g	0.54 %
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	1.16 mg/serving	2.73 mg/g	0.27 %
Delta-8-THC (d8-THC)	<LOQ mg/serving	<LOQ mg/g	<LOQ %

HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	<LOQ µg/serving	<LOQ µg/g	10 µg/day ^[1]
Cadmium	<LOQ µg/serving	<LOQ µg/g	4.1 µg/day ^[1]
Lead	<LOQ µg/serving	<LOQ µg/g	6 µg/day ^[1]
Mercury	<LOQ µg/serving	<LOQ µg/g	2 µg/day ^[1]

PESTICIDES	REGULATORY ACTION LEVEL
None of the other 59 pesticides tested found above limit of detection in the sample.	10 ppb ^[1]

RESIDUAL SOLVENTS	Results	REGULATORY ACTION LEVEL
Ethanol*	<LOQ 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	<LOQ %
β-Caryophyllene	9.81 %
α-Bisabolol	<LOQ %
Guaiol	<LOQ %
Humulene	1.07 %
Caryophyllene Oxide	0.46 %

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

*Ethanol is a food additive used in some of our ingredients. The FDA has labeled ethanol as Generally Recognized as Safe (GRAS). Many foods contain trace amounts of ethanol, including soy sauce, pasta sauces, fruits and juices, etc. Our products contain safe levels of ethanol and always below pertinent regulatory action levels.



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



Report Number: 23-007460/D003.R001
Report Date: 07/13/2023
ORELAP#: OR100028
Purchase Order:
Received: 06/23/23 10:32

This is an amended version of report# 23-007460/D003.R000.

Reason: Report includes additional testing.

Customer: Etz Hayim Holdings
Product identity: FORM-SG50.V2-FE33(A)
Client/Metric ID: .
Laboratory ID: 23-007460-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	5.35		mg/1g		CBD-Total per Serving Size 129 mg/1g
CBD per 1g	129		mg/1g		
CBDV per 1g	0.809		mg/1g		THC-Total per Serving Size 2.73 mg/1g
CBE per 1g	11.3		mg/1g		(Reported in milligrams per serving)
CBG per 1g	1.19		mg/1g		
CBN per 1g	1.00		mg/1g		
CBT per 1g	2.97		mg/1g		
Δ9-THC per 1g	2.73		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
(R)-(+)-Limonene	3.39	46.95%	a-pinene	2.93	40.58%
β-Caryophyllene	0.708	9.81%	Humulene	0.0771	1.07%
Camphene	0.0437	0.61%	β-Myrcene	0.0377	0.52%
(-)-caryophyllene oxide	0.0330	0.46%	Total Terpenes	7.22	100.00%

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Received: 06/23/23 10:32

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

Product identity: FORM-SG50.V2-FE33(A)

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-007460-0001

Evidence of Cooling: No

Temp: 25.6

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: 2308565	Analyze: 6/26/23 7:47:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	5.35		mg/1g	0.751	
CBC-A per 1g	< LOQ		mg/1g	0.751	
CBC-Total per 1g	5.35		mg/1g	1.41	
CBD per 1g	129		mg/1g	0.751	
CBD-A per 1g	< LOQ		mg/1g	0.751	
CBD-Total per 1g	129		mg/1g	1.41	
CBDV per 1g	0.809		mg/1g	0.751	
CBDV-A per 1g	< LOQ		mg/1g	0.751	
CBDV-Total per 1g	< LOQ		mg/1g	1.40	
CBE per 1g	11.3		mg/1g	0.751	
CBG per 1g	1.19		mg/1g	0.751	
CBG-A per 1g	< LOQ		mg/1g	0.751	
CBG-Total per 1g	< LOQ		mg/1g	1.40	
CBL per 1g	< LOQ		mg/1g	0.751	
CBL-A per 1g	< LOQ		mg/1g	0.751	
CBL-Total per 1g	< LOQ		mg/1g	1.41	
CBN per 1g	1.00		mg/1g	0.751	
CBT per 1g	2.97		mg/1g	0.751	
Δ8-THCV per 1g	< LOQ		mg/1g	0.751	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.751	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.751	
Δ10-THC-Total per 1g	< LOQ		mg/1g	1.50	
Δ8-THC per 1g	< LOQ		mg/1g	0.751	
Δ9-THC per 1g	2.73		mg/1g	0.751	
delta-9-THCP per 1g	< LOQ		mg/1g	0.751	
exo-THC per 1g	< LOQ		mg/1g	0.751	
THC-A per 1g	< LOQ		mg/1g	0.751	
THC-Total per 1g	2.73		mg/1g	1.41	
THCV per 1g	< LOQ		mg/1g	0.751	
THCV-A per 1g	< LOQ		mg/1g	0.751	

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0430



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Potency per 1g	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2308565	Analyze: 6/26/23 7:47:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total per 1g	< LOQ		mg/1g	1.41	
Total Cannabinoids per 1g	154		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	1	2308844	07/09/23 AOAC 991.14 (Petrifilm) ^b		
Total Coliforms	< LOQ		cfu/g	1	2308844	07/09/23 AOAC 991.14 (Petrifilm) ^b		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2308845	07/09/23 AOAC 2014.05 (RAPID) ^b		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2308845	07/09/23 AOAC 2014.05 (RAPID) ^b		

Solvents

Method: Residual Solvents by GC/MS ^b		Units µg/g	Batch 2308992	Analyze 07/12/23 11:24 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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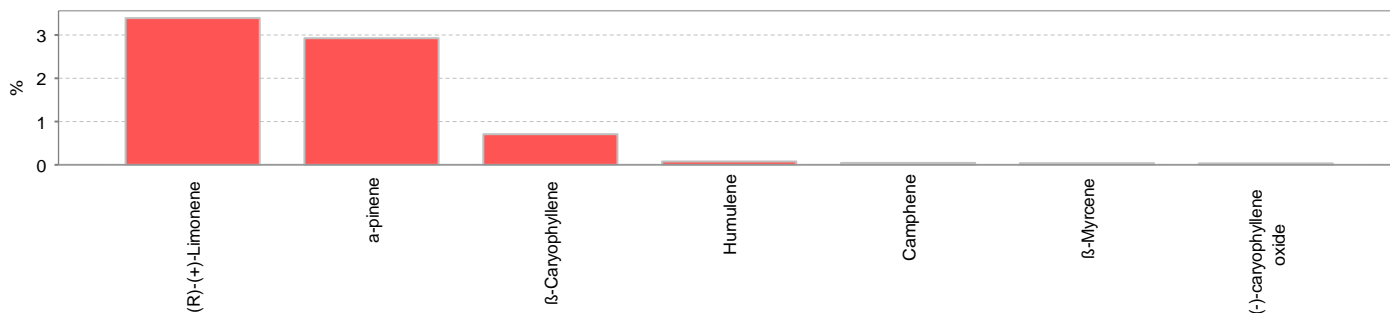


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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod) ^b											
Units mg/kg Batch 2308994 Analyze 07/12/23 11:54 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		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		Paclobotrazole [‡]	< 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 2308665	Analyze 06/28/23 02:36 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
(R)-(+)-Limonene	3.39	0.018	46.95%		a-pinene	2.93	0.018	40.58%	
β-Caryophyllene	0.708	0.018	9.806%		Humulene	0.0771	0.018	1.0679%	
Camphene	0.0437	0.018	0.6053%		β-Myrcene	0.0377	0.018	0.5222%	
(-)-caryophyllene oxide	0.0330	0.018	0.4571%		a-Bisabolol	< LOQ	0.018	0.00%	
Linalool	< LOQ	0.018	0.00%		Geranyl acetate	< LOQ	0.018	0.00%	
(+)-fenchol	< LOQ	0.018	0.00%		(-)-β-Pinene	< LOQ	0.018	0.00%	
farnesene	< LOQ	0.018	0.00%		(+)-Cedrol	< LOQ	0.018	0.00%	
(±)-fenchone	< LOQ	0.018	0.00%		Sabinene	< LOQ	0.018	0.00%	
Terpinolene	< LOQ	0.018	0.00%		(±)-Camphor	< LOQ	0.018	0.00%	
Geraniol	< LOQ	0.018	0.00%		Sabinene hydrate	< LOQ	0.018	0.00%	
(+)-Pulegone	< LOQ	0.018	0.00%		trans-β-Ocimene	< LOQ	0.012	0.00%	
(-)-a-Terpineol	< LOQ	0.018	0.00%		a-phellandrene	< LOQ	0.018	0.00%	
Isoborneol	< LOQ	0.018	0.00%		gamma-Terpinene	< LOQ	0.018	0.00%	
(-)-Guaiol	< LOQ	0.018	0.00%		(+)-Borneol	< LOQ	0.018	0.00%	
Eucalyptol	< LOQ	0.018	0.00%		(±)-trans-Nerolidol	< LOQ	0.018	0.00%	
valencene	< LOQ	0.018	0.00%		(-)-Isopulegol	< LOQ	0.018	0.00%	
a-Terpinene	< LOQ	0.018	0.00%		d-3-Carene	< LOQ	0.018	0.00%	
cis-β-Ocimene	< LOQ	0.006	0.00%		(±)-cis-Nerolidol	< LOQ	0.018	0.00%	
a-cedrene	< LOQ	0.018	0.00%		Menthol	< LOQ	0.018	0.00%	
nerol	< LOQ	0.018	0.00%		p-Cymene	< LOQ	0.018	0.00%	

Total Terpenes 7.22

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic [‡]	< LOQ	0.200	mg/kg	0.0966	2309029	07/12/23 AOAC 2013.06 (mod.) [‡]	pass	
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0966	2309029	07/12/23 AOAC 2013.06 (mod.) [‡]	pass	
Lead [‡]	< LOQ	0.500	mg/kg	0.0966	2309029	07/12/23 AOAC 2013.06 (mod.) [‡]	pass	
Mercury [‡]	< LOQ	0.100	mg/kg	0.0483	2309029	07/12/23 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: Z308565

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0739	0.0729	%	101	80.0	- 120	Acceptable	
CBDV	2	0.0686	0.0727	%	94.4	80.0	- 120	Acceptable	
CBE	2	0.0748	0.0803	%	93.2	80.0	- 120	Acceptable	
CBDA	1	0.0787	0.0750	%	105	90.0	- 110	Acceptable	
CBGA	1	0.0779	0.0753	%	103	80.0	- 120	Acceptable	
CBG	1	0.0786	0.0766	%	103	80.0	- 120	Acceptable	
CBD	1	0.0803	0.0779	%	103	90.0	- 110	Acceptable	
THCV	2	0.0559	0.0546	%	102	80.0	- 120	Acceptable	
d8THCV	2	0.0638	0.0644	%	99.1	80.0	- 120	Acceptable	
THCVA	2	0.0706	0.0711	%	99.3	80.0	- 120	Acceptable	
CBN	1	0.0794	0.0784	%	101	80.0	- 120	Acceptable	
exo-THC	2	0.0655	0.0653	%	100	80.0	- 120	Acceptable	
d9THC	1	0.0782	0.0759	%	103	90.0	- 110	Acceptable	
d8THC	1	0.0701	0.0738	%	95.0	90.0	- 110	Acceptable	
9S-d10THC	1	0.0789	0.0791	%	99.9	80.0	- 120	Acceptable	
CBL	2	0.0770	0.0718	%	107	80.0	- 120	Acceptable	
9R-d10THC	1	0.0743	0.0722	%	103	80.0	- 120	Acceptable	
CBC	2	0.0657	0.0675	%	97.3	80.0	- 120	Acceptable	
THCA	1	0.0756	0.0744	%	102	90.0	- 110	Acceptable	
CBCA	2	0.0759	0.0737	%	103	80.0	- 120	Acceptable	
CBLA	2	0.0726	0.0698	%	104	80.0	- 120	Acceptable	
d9THCP	2	0.0734	0.0752	%	97.6	80.0	- 120	Acceptable	
CBT	2	0.0723	0.0753	%	96.0	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0765	%	< 0.0765	Acceptable	
CBDV	<LOQ	0.0765	%	< 0.0765	Acceptable	
CBE	<LOQ	0.0765	%	< 0.0765	Acceptable	
CBDA	<LOQ	0.0765	%	< 0.0765	Acceptable	
CBGA	<LOQ	0.0765	%	< 0.0765	Acceptable	
CBG	<LOQ	0.0765	%	< 0.0765	Acceptable	
CBD	<LOQ	0.0765	%	< 0.0765	Acceptable	
THCV	<LOQ	0.0765	%	< 0.0765	Acceptable	
d8THCV	<LOQ	0.0765	%	< 0.0765	Acceptable	
THCVA	<LOQ	0.0765	%	< 0.0765	Acceptable	
CBN	<LOQ	0.0765	%	< 0.0765	Acceptable	
exo-THC	<LOQ	0.0765	%	< 0.0765	Acceptable	
d9THC	<LOQ	0.0765	%	< 0.0765	Acceptable	
d8THC	<LOQ	0.0765	%	< 0.0765	Acceptable	
9S-d10THC	<LOQ	0.0765	%	< 0.0765	Acceptable	
CBL	<LOQ	0.0765	%	< 0.0765	Acceptable	
9R-d10THC	<LOQ	0.0765	%	< 0.0765	Acceptable	
CBC	<LOQ	0.0765	%	< 0.0765	Acceptable	
THCA	<LOQ	0.0765	%	< 0.0765	Acceptable	
CBCA	<LOQ	0.0765	%	< 0.0765	Acceptable	
CBLA	<LOQ	0.0765	%	< 0.0765	Acceptable	
d9THCP	<LOQ	0.0765	%	< 0.0765	Acceptable	
CBT	<LOQ	0.0765	%	< 0.0765	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: 23-007460/D003.R001
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Received: 06/23/23 10:32



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

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2308565						
Sample Duplicate	Sample ID: 23-007473-0001							
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
CBD A	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
CBG	0.391	0.343	0.0762	%	13.0	< 20	Acceptable	
CBD	13.7	12.1	0.0762	%	12.9	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
CBC	0.109	0.0954	0.0762	%	13.1	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.0762	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.0762	%	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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Revision: 1 Document ID: 7086
 Legacy ID: CFL-E57Worksheet Validated 11/04/2020

Terpenes Quality Control Results

Method Reference: EPA 5035				Batch ID: 2308665					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		416	500	µg/g	83%	70 - 130	
Camphene	<LOQ	< 200		453	500	µg/g	91%	70 - 130	
Sabinene	<LOQ	< 200		399	500	µg/g	80%	70 - 130	
b-Pinene	<LOQ	< 200		392	500	µg/g	78%	70 - 130	
b-Myrcene	<LOQ	< 200		423	500	µg/g	85%	70 - 130	
a-phellandrene	<LOQ	< 200		452	500	µg/g	90%	70 - 130	
d-3-Carene	<LOQ	< 200		458	500	µg/g	92%	70 - 130	
a-Terpinene	<LOQ	< 200		413	500	µg/g	83%	70 - 130	
p-Cymene	<LOQ	< 200		425	500	µg/g	85%	70 - 130	
D-Limonene	<LOQ	< 200		414	500	µg/g	83%	70 - 130	
Eucalyptol	<LOQ	< 200		424	500	µg/g	85%	70 - 130	
b-cis-Ocimene	<LOQ	< 67		138	167	µg/g	83%	70 - 130	
b-trans-Ocimene	<LOQ	< 133		292	333	µg/g	88%	70 - 130	
g-Terpinene	<LOQ	< 200		409	500	µg/g	82%	70 - 130	
Sabinene_Hydrate	<LOQ	< 200		420	500	µg/g	84%	70 - 130	
Terpinolene	<LOQ	< 200		401	500	µg/g	80%	70 - 130	
D-Fenchone	<LOQ	< 200		398	500	µg/g	80%	70 - 130	
Linalool	<LOQ	< 200		470	500	µg/g	94%	70 - 130	
Fenchol	<LOQ	< 200		444	500	µg/g	89%	70 - 130	
Camphor	<LOQ	< 200		431	500	µg/g	86%	70 - 130	
Isopulego	<LOQ	< 200		444	500	µg/g	89%	70 - 130	
Isoborneol	<LOQ	< 200		474	500	µg/g	95%	70 - 130	
Borneol	<LOQ	< 200		433	500	µg/g	87%	70 - 130	
DL-Menthol	<LOQ	< 200		429	500	µg/g	86%	70 - 130	
Terpineol	<LOQ	< 200		429	500	µg/g	86%	70 - 130	
Nerol	<LOQ	< 200		362	500	µg/g	72%	70 - 130	
Pulegone	<LOQ	< 200		436	500	µg/g	87%	70 - 130	
Geraniol	<LOQ	< 200		392	500	µg/g	78%	70 - 130	
Geranyl_Acetate	<LOQ	< 200		392	500	µg/g	78%	70 - 130	
a-Cedrene	<LOQ	< 200		398	500	µg/g	80%	70 - 130	
b-Caryophyllene	<LOQ	< 200		451	500	µg/g	90%	70 - 130	
a-Humulene	<LOQ	< 200		464	500	µg/g	93%	70 - 130	
Valenene	<LOQ	< 200		410	500	µg/g	82%	70 - 130	
cis-Nerolidol	<LOQ	< 200		472	500	µg/g	94%	70 - 130	
a-Farnesene	<LOQ	< 200		493	500	µg/g	99%	70 - 130	
trans-Nerolidol	<LOQ	< 200		429	500	µg/g	86%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		452	500	µg/g	90%	70 - 130	
Guaiol	<LOQ	< 200		445	500	µg/g	89%	70 - 130	
Cedrol	<LOQ	< 200		467	500	µg/g	93%	70 - 130	
a-Bisabolol	<LOQ	< 200		464	500	µg/g	93%	70 - 130	

Definitions

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



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Terpenes Quality Control Results

Method Reference: EPA 5035		Batch ID: 2308665					
Sample/Sample Duplicate		Sample ID: 23-007476-0002					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	32600	32700	184	µg/g	0%	< 20	
Camphene	1200	1200	184	µg/g	0%	< 20	
Sabinene	3280	3300	184	µg/g	1%	< 20	
b-Pinene	197000	197000	184	µg/g	0%	< 20	
b-Myrcene	163000	164000	184	µg/g	1%	< 20	
a-phellandrene	3130	3150	184	µg/g	1%	< 20	
d-3-Carene	2950	2970	184	µg/g	1%	< 20	
a-Terpinene	2390	2410	184	µg/g	1%	< 20	
p-Cymene	1160	1170	184	µg/g	1%	< 20	
D-Limonene	222000	224000	184	µg/g	1%	< 20	
Eucalyptol	<LOQ	<LOQ	184	µg/g	0%	< 20	
b-cis-Ocimene	2400	2380	61.4	µg/g	1%	< 20	
b-trans-Ocimene	30800	30400	123	µg/g	1%	< 20	
g-Terpinene	10400	10400	184	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	184	µg/g	0%	< 20	
Terpinolene	76200	76500	184	µg/g	0%	< 20	
D-Fenchone	271	267	184	µg/g	1%	< 20	
Linalool	24300	24300	184	µg/g	0%	< 20	
Fenchol	1390	1390	184	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	184	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	184	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Borneol	284	291	184	µg/g	2%	< 20	
DL-Menthol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Terpineol	1030	1020	184	µg/g	1%	< 20	
Nerol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	184	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	184	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	184	µg/g	0%	< 20	
b-Caryophyllene	57100	57400	184	µg/g	1%	< 20	
a-Humulene	22100	22200	184	µg/g	0%	< 20	
Valenene	289	288	184	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	184	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	184	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Caryophyllene_Oxide	1040	1040	184	µg/g	0%	< 20	
Guaiol	330	329	184	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	184	µg/g	0%	< 20	
a-Bisabolol	6780	6820	184	µg/g	1%	< 20	

Definitions

RPD Relative Percent Difference



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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2308992						
Method Blank				Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes	
Propane	ND	< 200		63	58	µg/g	108.2	60 - 120		
Isobutane	ND	< 200		83	76	µg/g	108.4	60 - 120		
Butane	ND	< 200		83	78	µg/g	106.3	60 - 120		
2,2-Dimethylpropane	ND	< 200		102	93	µg/g	108.4	60 - 120		
Methanol	ND	< 200		185	164	µg/g	112.3	60 - 120		
Ethylene Oxide	ND	< 30		73	57	µg/g	128.7	60 - 120	Q1	
2-Methylbutane	ND	< 200		167	160	µg/g	104.4	60 - 120		
Pentane	ND	< 200		170	162	µg/g	104.9	60 - 120		
Ethanol	ND	< 200		192	161	µg/g	119.3	70 - 130		
Ethyl Ether	ND	< 200		173	161	µg/g	107.3	60 - 120		
2,2-Dimethylbutane	ND	< 30		17	16	µg/g	103.4	60 - 120		
Acetone	ND	< 200		175	162	µg/g	108.0	60 - 120		
2-Propanol	ND	< 200		197	160	µg/g	123.3	60 - 120	Q1	
Ethyl Formate	ND	< 500		161	160	µg/g	100.0	70 - 130		
Acetonitrile	ND	< 100		51	49	µg/g	108.4	60 - 120		
Methyl Acetate	ND	< 500		163	161	µg/g	101.2	70 - 130		
2,3-Dimethylbutane	ND	< 30		17	16	µg/g	109.3	60 - 120		
Dichloromethane	ND	< 60		52	48	µg/g	108.3	60 - 120		
2-Methylpentane	ND	< 30		18	17	µg/g	104.0	60 - 120		
MIBK	ND	< 500		161	161	µg/g	100.0	70 - 130		
3-Methylpentane	ND	< 30		18	16	µg/g	111.3	60 - 120		
Hexane	ND	< 30		17	16	µg/g	101.8	60 - 120		
1-Propanol	ND	< 500		179	160	µg/g	111.9	70 - 130		
Methylethylketone	ND	< 500		164	162	µg/g	101.2	70 - 130		
Ethyl acetate	ND	< 200		177	160	µg/g	110.6	60 - 120		
2-Butanol	ND	< 200		201	160	µg/g	125.6	60 - 120	Q1	
Tetrahydrofuran	ND	< 100		54	51	µg/g	105.3	60 - 120		
Cyclohexane	ND	< 200		167	160	µg/g	104.4	60 - 120		
2-methyl-1-propanol	ND	< 500		188	161	µg/g	116.8	70 - 130		
Benzene	ND	< 1		4.4	5.1	µg/g	86.3	60 - 120		
Isopropyl Acetate	ND	< 200		179	162	µg/g	110.5	60 - 120		
Heptane	ND	< 200		170	161	µg/g	105.6	60 - 120		
1-Butanol	ND	< 500		187	160	µg/g	116.9	70 - 130		
Propyl Acetate	ND	< 500		164	160	µg/g	102.9	70 - 130		
1,4-Dioxane	ND	< 100		50	49	µg/g	103.2	60 - 120		
2-Ethoxyethanol	ND	< 30		21	16	µg/g	132.9	60 - 120	Q1	
Methylisobutylketone	ND	< 500		168	160	µg/g	105.0	70 - 130		
3-Methyl-1-butanol	ND	< 500		183	161	µg/g	113.7	70 - 130		
Ethylene Glycol	ND	< 200		47	48	µg/g	97.9	60 - 120		
Toluene	ND	< 100		50	49	µg/g	103.0	60 - 120		
Isobutyl Acetate	ND	< 500		164	160	µg/g	102.9	70 - 130		
1-Pentanol	ND	< 500		197	160	µg/g	123.3	70 - 130		
Butyl Acetate	ND	< 500		164	160	µg/g	102.9	70 - 130		
Ethylbenzene	ND	< 200		99	96	µg/g	102.6	60 - 120		
m,p-Xylene	ND	< 200		93	96	µg/g	96.2	60 - 120		
o-Xylene	ND	< 200		98	97	µg/g	101.3	60 - 120		
Cumene	ND	< 30		16	16	µg/g	104.3	60 - 120		
Anisole	ND	< 500		155	161	µg/g	96.3	70 - 130		
DMISO	ND	< 500		145	161	µg/g	90.3	70 - 130		
1,2-dimethoxyethane	ND	< 50		16	16	µg/g	97.6	70 - 130		
Triethylamine	ND	< 500		147	160	µg/g	91.9	70 - 130		
N,N-dimethylformamide	ND	< 150		51	48	µg/g	106.0	70 - 130		
N,N-dimethylacetamide	ND	< 150		47	48	µg/g	97.8	70 - 130		
Pyridine	ND	< 50		14	17	µg/g	86.6	70 - 130		
Sulfolane	ND	< 50		12	16	µg/g	77.9	70 - 130		
1,2-Dichloroethane	ND	< 1		1.0		µg/g	107.0	70 - 130		
Chloroform	ND	< 1		1.1		µg/g	112.0	70 - 130		
Trichloroethylene	ND	< 1		1.0		µg/g	107.0	70 - 130		
1,1-Dichloroethane	ND	< 1		1.0		µg/g	103.0	70 - 130		



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QC - Sample Duplicate		Sample ID: 23-007460-0001						
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	
Methyl ethyl ketone	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
 Q1 - Quality control result biased high. Only non-detect samples reported.

Units of Measure:

µg/g - Microgram per gram or ppm



12423 NE Whitaker Way
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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 2308994				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		1.059	1.000	105.9	50.0 150	
Acephate	0.083	< 0.200		0.650	0.800	81.2	60.0 120	
Acequinocyl	0.000	< 1.000		3.936	4.000	98.4	40.0 160	
Acetamiprid	0.000	< 0.100		0.396	0.400	99.0	60.0 120	
Aldicarb	0.000	< 0.200		0.809	0.800	101.1	60.0 120	
Azoxystrobin	0.000	< 0.100		0.384	0.400	96.1	60.0 120	
Bifenazate	0.000	< 0.100		0.434	0.400	108.4	60.0 120	
Bifenthrin	0.000	< 0.100		0.375	0.400	93.6	50.0 150	
Boscalid	0.000	< 0.200		0.806	0.800	100.8	60.0 120	
Carbaryl	0.000	< 0.100		0.371	0.400	92.6	60.0 120	
Carbofuran	0.000	< 0.100		0.391	0.400	97.8	60.0 120	
Chlorantraniliprole	0.000	< 0.100		0.383	0.400	95.8	60.0 120	
Chlorfenapyr	0.000	< 0.500		2.104	2.000	105.2	60.0 120	
Chlorpyrifos	0.000	< 0.100		0.349	0.400	87.4	60.0 120	
Clofentazine	0.000	< 0.100		0.375	0.400	93.6	60.0 120	
Cyfluthrin	0.000	< 0.500		2.056	2.000	102.8	50.0 150	
Cypermethrin	0.000	< 0.500		1.907	2.000	95.4	50.0 150	
Daminozide	0.128	< 0.500		2.088	2.000	104.4	60.0 120	
Diazinon	0.000	< 0.100		0.420	0.400	105.1	60.0 120	
Dichlorvos	0.000	< 0.500		1.803	2.000	90.2	60.0 120	
Dimethoate	0.000	< 0.100		0.410	0.400	102.5	60.0 120	
Ethoprophos	0.000	< 0.100		0.383	0.400	95.8	60.0 120	
Etofenprox	0.000	< 0.200		0.785	0.800	98.2	50.0 150	
Etoxazole	0.000	< 0.100		0.397	0.400	99.3	60.0 120	
Fenoxycarb	0.000	< 0.100		0.398	0.400	99.5	60.0 120	
Fenpyroximate	0.000	< 0.200		0.784	0.800	98.0	60.0 120	
Fipronil	0.000	< 0.200		0.768	0.800	96.1	60.0 120	
Fonicamid	0.000	< 0.250		1.021	1.000	102.1	60.0 120	
Fludioxonil	0.000	< 0.200		0.755	0.800	94.4	50.0 150	
Hexythiazox	0.000	< 0.250		0.952	1.000	95.2	60.0 120	
Imazail	0.000	< 0.100		0.396	0.400	99.0	60.0 120	
Imidacloprid	0.000	< 0.200		0.828	0.800	103.5	60.0 120	
Kresoxim-methyl	0.000	< 0.200		0.862	0.800	107.8	60.0 120	
Malathion	0.000	< 0.100		0.403	0.400	100.7	60.0 120	
Metaxalyl	0.000	< 0.100		0.396	0.400	99.1	60.0 120	
Methiocarb	0.000	< 0.100		0.389	0.400	97.2	60.0 120	
Methomyl	0.000	< 0.200		0.790	0.800	98.8	60.0 120	
MGK-264	0.000	< 0.100		0.409	0.400	102.3	50.0 150	
Myclobutanil	0.000	< 0.100		0.406	0.400	101.5	60.0 120	
Naled	0.000	< 0.250		0.943	1.000	94.3	50.0 150	
Oxamyl	0.000	< 0.500		1.998	2.000	99.9	60.0 120	
Paclobutrazole	0.000	< 0.200		0.786	0.800	98.2	60.0 120	
Parathion-Methyl	0.000	< 0.100		0.369	0.400	92.3	50.0 150	
Permethrin	0.000	< 0.100		0.386	0.400	96.4	50.0 150	
Phosmet	0.000	< 0.100		0.395	0.400	98.8	50.0 150	
Piperonyl butoxide	0.000	< 0.500		2.138	2.000	106.9	60.0 120	
Prallethrin	0.000	< 0.100		0.389	0.400	97.3	60.0 120	
Propiconazole	0.000	< 0.200		0.779	0.800	97.4	60.0 120	
Propoxur	0.000	< 0.100		0.368	0.400	92.1	60.0 120	
Pyrethrin (Summe)	0.003	< 0.100		0.518	0.488	106.2	60.0 120	
Pyridaben	0.000	< 0.100		0.388	0.400	97.0	50.0 150	
Spinosad	0.000	< 0.100		0.387	0.388	99.8	50.0 150	
Spiromesifen	0.000	< 0.100		0.383	0.400	95.7	60.0 120	
Spirotetramat	0.000	< 0.100		0.381	0.400	95.3	60.0 120	
Siproxamine	0.000	< 0.200		0.769	0.800	96.1	60.0 120	
Tebuconazole	0.000	< 0.200		0.800	0.800	99.9	60.0 120	
Thiacloprid	0.000	< 0.100		0.392	0.400	98.0	60.0 120	
Thiamethoxam	0.000	< 0.100		0.378	0.400	94.4	60.0 120	
Trifloxystrobin	0.000	< 0.100		0.386	0.400	96.5	60.0 120	



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Report Number: 23-007460/D003.R001
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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: 2308994				
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 23-007460-0001									
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Abamectin	0.000	0.873	1.053	1.000	18.7%	< 30	87.3%	105.3%	50 - 150		
Acephate	0.000	0.645	0.674	0.800	4.4%	< 30	80.7%	84.3%	50 - 150		
Acequinocyl	0.000	4.050	4.126	4.000	1.9%	< 30	101.3%	103.1%	50 - 150		
Acetamiprid	0.000	0.385	0.398	0.400	3.5%	< 30	96.1%	99.5%	50 - 150		
Aldicarb	0.000	0.780	0.869	0.800	10.8%	< 30	97.5%	108.6%	50 - 150		
Azoxystrobin	0.000	0.358	0.356	0.400	0.4%	< 30	89.4%	89.1%	50 - 150		
Bifenazate	0.000	0.430	0.448	0.400	4.0%	< 30	107.6%	111.9%	50 - 150		
Bifenthrin	0.000	0.369	0.386	0.400	4.5%	< 30	92.3%	96.6%	50 - 150		
Boscalid	0.000	0.741	0.783	0.800	5.6%	< 30	92.6%	97.9%	50 - 150		
Carbaryl	0.000	0.348	0.361	0.400	3.5%	< 30	87.1%	90.1%	50 - 150		
Carbofuran	0.000	0.388	0.399	0.400	2.7%	< 30	97.1%	99.8%	50 - 150		
Chlorantraniliprole	0.000	0.411	0.441	0.400	7.0%	< 30	102.7%	110.2%	50 - 150		
Chlorfenapyr	0.000	1.803	1.979	2.000	9.3%	< 30	90.2%	99.0%	50 - 150		
Chlorpyrifos	0.000	0.354	0.332	0.400	6.3%	< 30	88.5%	83.1%	50 - 150		
Cyflentzine	0.000	0.283	0.294	0.400	3.6%	< 30	70.8%	73.4%	50 - 150		
Cyfluthrin	0.000	1.081	1.308	2.000	18.9%	< 30	54.1%	65.4%	30 - 150		
Cypermethrin	0.000	1.098	1.110	2.000	1.1%	< 30	54.9%	55.5%	50 - 150		
Daminozide	0.000	2.159	2.555	2.000	16.8%	< 30	107.9%	127.8%	30 - 150		
Diazinon	0.000	0.342	0.387	0.400	12.2%	< 30	85.6%	96.7%	50 - 150		
Dichlorvos	0.000	1.756	1.840	2.000	4.6%	< 30	87.8%	92.0%	50 - 150		
Dimethoate	0.000	0.401	0.417	0.400	3.7%	< 30	100.3%	104.2%	50 - 150		
Ethoprophos	0.000	0.346	0.367	0.400	5.9%	< 30	86.5%	91.7%	50 - 150		
Etofenprox	0.000	0.765	0.764	0.800	0.1%	< 30	95.6%	95.5%	50 - 150		
Etoxazole	0.000	0.402	0.383	0.400	4.8%	< 30	100.5%	95.8%	50 - 150		
Fenoxycarb	0.000	0.347	0.383	0.400	10.0%	< 30	86.7%	95.8%	50 - 150		
Fenpyroximate	0.000	0.423	0.429	0.800	1.4%	< 30	52.8%	53.6%	50 - 150		
Fipronil	0.000	0.458	0.487	0.800	6.1%	< 30	57.3%	60.9%	50 - 150		
Flonicamid	0.000	0.966	0.910	1.000	6.0%	< 30	96.6%	91.0%	50 - 150		
Fludioxonil	0.000	0.873	0.858	0.800	1.7%	< 30	109.1%	107.2%	50 - 150		
Hexythiazox	0.000	1.130	1.109	1.000	1.9%	< 30	113.0%	110.9%	50 - 150		
Imazail	0.001	0.378	0.411	0.400	8.2%	< 30	94.4%	102.5%	50 - 150		
Imidacloprid	0.007	0.804	0.855	0.800	6.2%	< 30	99.7%	106.1%	50 - 150		
Kresoxim-methyl	0.000	0.677	0.796	0.800	16.2%	< 30	84.6%	99.5%	50 - 150		
Malathion	0.000	0.365	0.401	0.400	9.5%	< 30	91.1%	100.2%	50 - 150		
Metaxalyl	0.000	0.408	0.457	0.400	11.2%	< 30	102.1%	114.2%	50 - 150		
Methiocarb	0.000	0.378	0.423	0.400	11.2%	< 30	94.5%	105.7%	50 - 150		
Methomyl	0.000	0.809	0.765	0.800	5.7%	< 30	101.2%	95.6%	50 - 150		
MKG-264	0.000	0.211	0.248	0.400	16.1%	< 30	52.8%	62.0%	50 - 150		
Myclobutanil	0.000	0.296	0.321	0.400	8.4%	< 30	73.9%	80.3%	50 - 150		
Naled	0.000	0.851	0.896	1.000	5.1%	< 30	85.1%	89.6%	50 - 150		
Oxamyl	0.000	1.864	1.970	2.000	5.5%	< 30	93.2%	98.5%	50 - 150		
Paclobutrazole	0.000	0.739	0.815	0.800	9.7%	< 30	92.4%	101.9%	50 - 150		
Parathion-Methyl	0.000	0.329	0.261	0.400	23.1%	< 30	82.3%	65.2%	30 - 150		
Permethrin	0.000	0.341	0.345	0.400	0.9%	< 30	85.4%	86.2%	50 - 150		
Phosmet	0.000	0.387	0.429	0.400	10.4%	< 30	96.7%	107.4%	50 - 150		
Piperonyl butoxide	0.000	2.035	2.267	2.000	10.8%	< 30	101.8%	113.3%	50 - 150		
Prallethrin	0.292	0.730	0.845	0.400	23.1%	< 30	109.6%	138.3%	50 - 150		
Propiconazole	0.000	0.604	0.658	0.800	8.5%	< 30	75.5%	82.2%	50 - 150		
Propoxur	0.000	0.363	0.390	0.400	7.1%	< 30	90.9%	97.6%	50 - 150		
Pyrethrin (Summe)	0.000	2.253	2.455	0.488	8.6%	< 30	461.7%	503.0%	50 - 150		
Pyridaben	0.000	0.409	0.424	0.400	3.5%	< 30	102.3%	106.0%	50 - 150		
Spinosad	0.000	0.344	0.349	0.388	1.6%	< 30	88.6%	90.0%	50 - 150		
Spiromesifen	0.000	0.407	0.392	0.400	3.7%	< 30	101.8%	98.0%	50 - 150		
Spirotetramat	0.000	0.430	0.441	0.400	2.4%	< 30	107.6%	110.2%	50 - 150		
Siproxamine	0.000	0.766	0.881	0.800	13.9%	< 30	95.8%	110.1%	50 - 150		
Tebuconazole	0.000	0.656	0.645	0.800	1.5%	< 30	81.9%	80.7%	50 - 150		
Thiacloprid	0.000	0.368	0.395	0.400	7.0%	< 30	92.1%	98.8%	50 - 150		
Thiamethoxam	0.000	0.401	0.433	0.400	7.6%	< 30	100.3%	108.3%	50 - 150		
Trifloxystrobin	0.000	0.359	0.376	0.400	4.4%	< 30	89.9%	93.9%	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.