

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	1.5 ppm
Cadmium	µg/serving	µg/g	0.5 ppm
Lead	µg/serving	µg/g	0.5 ppm
Mercury	µg/serving	µg/g	3.0 ppm
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	5,000 ppm	
Heptane	µg/g	5,000 ppm	
None of the 34 residual solvents tested found above limit of quantitation in the sample.			
MICROBIAL	PASS/FAIL		
Yeast & Mold	Pass		
Coliform	Pass		



1. American Herbal Pharmacopoeia. (2014). Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control. Washington DC: AHP.
2. US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA. US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA.



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



Report Number: 23-013524/D002.R000
Report Date: 11/21/2023
ORELAP#: OR100028
Purchase Order: 2726980
Received: 11/15/23 15:53

Customer: Etz Hayim Holdings
Product identity: CYCL-TN.CANOLA.D9.3-FJ71(A)
Client/Metric ID: .
Laboratory ID: 23-013524-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBD per 1g	41.7		mg/1g		CBD-Total per Serving Size 41.7 mg/1g
CBDV per 1g	0.260		mg/1g		
Δ8-THC per 1g	0.0714		mg/1g		THC-Total per Serving Size 3.16 mg/1g
Δ9-THC per 1g	3.16		mg/1g		(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Received: 11/15/23 15:53

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

Product identity: CYCL-TN.CANOLA.D9.3-FJ71(A)

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-013524-0001

Evidence of Cooling: No

Temp: 20 °C

Relinquished by: client

Serving Size #1: 1 g

Sample Results

Potency per 1g	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2313003	Analyze: 11/20/23 8:06:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	< LOQ		mg/1g	0.0321	
CBC-A per 1g	< LOQ		mg/1g	0.0321	
CBC-Total per 1g	< LOQ		mg/1g	0.0602	
CBD per 1g	41.7		mg/1g	0.321	
CBD-A per 1g	< LOQ		mg/1g	0.0321	
CBD-Total per 1g	41.7		mg/1g	0.349	
CBDV per 1g	0.260		mg/1g	0.0321	
CBDV-A per 1g	< LOQ		mg/1g	0.0321	
CBDV-Total per 1g	0.260		mg/1g	0.0598	
CBE per 1g	< LOQ		mg/1g	0.0321	
CBG per 1g	< LOQ		mg/1g	0.0321	
CBG-A per 1g	< LOQ		mg/1g	0.0321	
CBG-Total per 1g	< LOQ		mg/1g	0.0598	
CBL per 1g	< LOQ		mg/1g	0.0321	
CBL-A per 1g	< LOQ		mg/1g	0.0321	
CBL-Total per 1g	< LOQ		mg/1g	0.0602	
CBN per 1g	< LOQ		mg/1g	0.0321	
CBT per 1g	< LOQ		mg/1g	0.0321	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0321	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0321	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0321	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0641	
Δ8-THC per 1g	0.0714		mg/1g	0.0321	
Δ9-THC per 1g	3.16		mg/1g	0.0321	
delta-9-THCP per 1g	< LOQ		mg/1g	0.0321	
exo-THC per 1g	< LOQ		mg/1g	0.0321	
THC-A per 1g	< LOQ		mg/1g	0.0321	
THC-Total per 1g	3.16		mg/1g	0.0602	
THCV per 1g	< LOQ		mg/1g	0.0321	
THCV-A per 1g	< LOQ		mg/1g	0.0321	



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Potency per 1g **Method:** J AOAC 2015 V98-6 (mod)^P **Units** mg/se **Batch:** 2313003 **Analyze:** 11/20/23 8:06:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total per 1g	< LOQ		mg/1g	0.0602	
Total Cannabinoids per 1g	45.2		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2312840	11/18/23 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2312840	11/18/23 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2312841	11/19/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2312841	11/19/23 AOAC 2014.05 (RAPID) ^P		

Solvents **Method:** Residual Solvents by GC/MS^P **Units** µg/g **Batch** 2312908 **Analyze** 11/17/23 01:51 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							



Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod) ^b											
Units mg/kg Batch 2312905 Analyze 11/17/23 12:38 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		Acephate [‡]	< LOQ	0.40	0.200	pass	
Acequinocyl [‡]	< LOQ	2.0	1.00	pass		Acetamiprid [‡]	< LOQ	0.20	0.100	pass	
Aldicarb [‡]	< LOQ	0.40	0.200	pass		Azoxystrobin [‡]	< LOQ	0.20	0.100	pass	
Bifenazate [‡]	< LOQ	0.20	0.100	pass		Bifenthrin [‡]	< LOQ	0.20	0.100	pass	
Boscalid [‡]	< LOQ	0.40	0.200	pass		Carbaryl [‡]	< LOQ	0.20	0.100	pass	
Carbofuran [‡]	< LOQ	0.20	0.100	pass		Chlorantraniliprole [‡]	< LOQ	0.20	0.100	pass	
Chlorfenapyr [‡]	< LOQ	1.0	0.500	pass		Chlorpyrifos [‡]	< LOQ	0.20	0.100	pass	
Clofentezine [‡]	< LOQ	0.20	0.100	pass		Cyfluthrin [‡]	< LOQ	1.0	0.500	pass	
Cypermethrin [‡]	< LOQ	1.0	0.500	pass		Daminozide [‡]	< LOQ	1.0	0.500	pass	
Diazinon [‡]	< LOQ	0.20	0.100	pass		Dichlorvos [‡]	< LOQ	1.0	0.500	pass	
Dimethoate [‡]	< LOQ	0.20	0.100	pass		Ethoprophos [‡]	< LOQ	0.20	0.100	pass	
Etofenprox [‡]	< LOQ	0.40	0.200	pass		Etoxazole [‡]	< LOQ	0.20	0.100	pass	
Fenoxycarb [‡]	< LOQ	0.20	0.100	pass		Fenpyroximate [‡]	< LOQ	0.40	0.200	pass	
Fipronil [‡]	< LOQ	0.40	0.200	pass		Flonicamid [‡]	< LOQ	1.0	0.400	pass	
Fludioxonil [‡]	< LOQ	0.40	0.200	pass		Hexythiazox [‡]	< LOQ	1.0	0.400	pass	
Imazalil [‡]	< LOQ	0.20	0.100	pass		Imidacloprid [‡]	< LOQ	0.40	0.200	pass	
Kresoxim-methyl [‡]	< LOQ	0.40	0.200	pass		Malathion [‡]	< LOQ	0.20	0.100	pass	
Metalaxyl [‡]	< LOQ	0.20	0.100	pass		Methiocarb [‡]	< LOQ	0.20	0.100	pass	
Methomyl [‡]	< LOQ	0.40	0.200	pass		MGK-264 [‡]	< LOQ	0.20	0.100	pass	
Myclobutanil [‡]	< LOQ	0.20	0.100	pass		Naled [‡]	< LOQ	0.50	0.250	pass	
Oxamyl [‡]	< LOQ	1.0	0.500	pass		Pacllobutrazole [‡]	< LOQ	0.40	0.200	pass	
Parathion-Methyl [‡]	< LOQ	0.20	0.100	pass		Permethrin [‡]	< LOQ	0.20	0.100	pass	
Phosmet [‡]	< LOQ	0.20	0.100	pass		Piperonyl butoxide [‡]	< LOQ	2.0	1.00	pass	
Prallethrin [‡]	< LOQ	0.20	0.100	pass		Propiconazole [‡]	< LOQ	0.40	0.200	pass	
Propoxur [‡]	< LOQ	0.20	0.100	pass		Pyrethrin I (total) [‡]	< LOQ	1.0	0.500	pass	
Pyridaben [‡]	< LOQ	0.20	0.100	pass		Spinosad [‡]	< LOQ	0.20	0.100	pass	
Spiromesifen [‡]	< LOQ	0.20	0.100	pass		Spirotetramat [‡]	< LOQ	0.20	0.100	pass	
Spiroxamine [‡]	< LOQ	0.40	0.200	pass		Tebuconazole [‡]	< LOQ	0.40	0.200	pass	
Thiacloprid [‡]	< LOQ	0.20	0.100	pass		Thiamethoxam [‡]	< LOQ	0.20	0.100	pass	
Trifloxystrobin [‡]	< LOQ	0.20	0.100	pass							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes	
Arsenic [‡]	< LOQ	0.200	mg/kg	0.0935	2312986	11/20/23	AOAC 2013.06 (mod.) ^b	pass		
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0935	2312986	11/20/23	AOAC 2013.06 (mod.) ^b	pass		
Lead [‡]	< LOQ	0.500	mg/kg	0.0935	2312986	11/20/23	AOAC 2013.06 (mod.) ^b	pass		
Mercury [‡]	< LOQ	0.100	mg/kg	0.0468	2312986	11/20/23	AOAC 2013.06 (mod.) ^b	pass		



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Abbreviations

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

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

Ⓟ = ISO/IEC 17025:2017 accredited method.

Ⓜ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

g = g

µg/g = Microgram per gram

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

mg/1g = Milligram per 1g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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

Laboratory Pesticide Quality Control Results

AOAC2007.1 &EN 15662		Units: mg/Kg			Batch ID 2312905			
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spke	LCS % Re	Limits	Notes
Abamectin	0.00	< 0.250		0.966	1.000	96.5	50.0	150
Acephate	0.029	< 0.200		0.829	0.800	103.6	60.0	120
Acetamiprid	0.00	< 1.000		3.511	4.000	87.8	40.0	160
Acetamiprid	0.00	< 0.100		0.409	0.400	102.3	60.0	120
Aldicarb	0.00	< 0.200		0.810	0.800	101.3	60.0	120
Azoxystrobin	0.00	< 0.100		0.382	0.400	95.6	60.0	120
Bifenazate	0.00	< 0.100		0.405	0.400	101.3	60.0	120
Bifenthrin	0.00	< 0.100		0.387	0.400	96.8	50.0	150
Boscalid	0.046	< 0.200		0.746	0.800	93.1	60.0	120
Carbaryl	0.00	< 0.100		0.408	0.400	102.1	60.0	120
Carbendazim	0.00	< 0.100		0.397	0.400	99.4	60.0	120
Chlorantraniliprole	0.00	< 0.100		0.433	0.400	108.3	60.0	120
Chlorfenapyr	0.00	< 0.500		2.126	2.000	106.3	60.0	120
Chlorpyrifos	0.00	< 0.100		0.418	0.400	104.5	60.0	120
Clofentezine	0.00	< 0.100		0.327	0.400	81.8	60.0	120
Cyfluthrin	0.00	< 0.500		2.058	2.000	102.9	50.0	150
Cypermethrin	0.00	< 0.500		1.968	2.000	98.4	50.0	150
Daminozide	0.008	< 0.500		0.817	2.000	40.9	60.0	120
Diazon	0.00	< 0.100		0.408	0.400	102.1	60.0	120
Dichlorvos	0.00	< 0.500		1.961	2.000	98.0	60.0	120
Dimethoate	0.00	< 0.100		0.399	0.400	99.7	60.0	120
Ethoprophos	0.00	< 0.100		0.403	0.400	100.6	60.0	120
Etofenprox	0.00	< 0.200		0.742	0.800	92.8	50.0	150
Etoxazole	0.003	< 0.100		0.415	0.400	103.7	60.0	120
Fenoxycarb	0.00	< 0.100		0.397	0.400	99.3	60.0	120
Fenpyroximate	0.00	< 0.200		0.771	0.800	96.3	60.0	120
Fipronil	0.00	< 0.200		0.706	0.800	88.3	60.0	120
Fonicamid	0.00	< 0.250		1.004	1.000	100.4	60.0	120
Fludioxonil	0.00	< 0.200		0.856	0.800	107.0	50.0	150
Hexythiazox	0.00	< 0.250		1.016	1.000	101.6	60.0	120
Imazalil	0.00	< 0.100		0.416	0.400	104.0	60.0	120
Imidacloprid	0.00	< 0.200		0.780	0.800	97.5	60.0	120
Kiesoxim-methyl	0.00	< 0.200		0.771	0.800	96.4	60.0	120
Malathion	0.00	< 0.100		0.383	0.400	95.8	60.0	120
Metaxyl	0.00	< 0.100		0.406	0.400	101.4	60.0	120
Methiocarb	0.001	< 0.100		0.385	0.400	96.2	60.0	120
Methomyl	0.00	< 0.200		0.847	0.800	105.9	60.0	120
MCK-264	0.00	< 0.100		0.423	0.400	105.8	50.0	150
Mydobutanol	0.00	< 0.100		0.409	0.400	102.1	60.0	120
Naled	0.00	< 0.250		0.970	1.000	97.0	50.0	150
Oxaryl	0.00	< 0.500		1.989	2.000	99.4	60.0	120
Padobutrazole	0.00	< 0.200		0.792	0.800	99.0	60.0	120
Parathion-Methyl	0.00	< 0.100		0.408	0.400	101.9	50.0	150
Permethrin	0.039	< 0.100		0.316	0.400	78.9	50.0	150
Phosmet	0.00	< 0.100		0.407	0.400	101.8	50.0	150
Piperonyl butoxide	0.00	< 0.500		2.012	2.000	100.6	60.0	120
Prallethrin	0.00	< 0.100		0.421	0.400	105.2	60.0	120
Propiconazole	0.00	< 0.200		0.797	0.800	99.7	60.0	120
Propoxur	0.00	< 0.100		0.406	0.400	101.4	60.0	120
Pyrethrin (Summe)	0.002	< 0.100		0.478	0.488	98.0	60.0	120
Pyridaben	0.00	< 0.100		0.393	0.400	98.3	50.0	150
Spirosad	0.00	< 0.100		0.372	0.388	95.9	50.0	150
Spiromesfen	0.00	< 0.100		0.404	0.400	101.1	60.0	120
Spirotetramat	0.00	< 0.100		0.413	0.400	103.2	60.0	120
Spiroxamine	0.00	< 0.200		0.812	0.800	101.5	60.0	120
Tebuconazole	0.00	< 0.200		0.726	0.800	90.8	60.0	120
Thiadoprid	0.00	< 0.100		0.397	0.400	99.4	60.0	120
Thiamethoxam	0.00	< 0.100		0.409	0.400	102.1	60.0	120
Trifloxystrobin	0.00	< 0.100		0.378	0.400	94.5	60.0	120

Q7



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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg					Batch ID 2312905			
Matrix Spke/Matrix Spke Duplicate Recoveries	Result	MS Res	MSD Res	Spike	RFD%	Limit	MS% Re	MSD % Re	Limits	Notes
Abamectin	0.00	0.834	0.822	1.00	1.5%	< 30	83.4%	82.2%	50 - 150	
Acephate	0.188	0.612	0.621	0.800	2.0%	< 30	56.8%	58.0%	50 - 150	
Acetamiprid	0.016	2.690	2.915	4.000	8.1%	< 30	66.8%	72.3%	50 - 150	
Acetamiprid	0.000	0.385	0.406	0.400	2.8%	< 30	98.8%	101.6%	50 - 150	
Aldicarb	0.000	0.738	0.722	0.800	2.2%	< 30	92.2%	90.2%	50 - 150	
Azoxystrobin	0.000	0.379	0.397	0.400	4.5%	< 30	94.8%	99.2%	50 - 150	
Bifenazate	0.000	0.337	0.339	0.400	0.7%	< 30	84.1%	84.7%	50 - 150	
Bifenthrin	0.000	0.274	0.286	0.400	4.4%	< 30	68.8%	71.0%	50 - 150	
Boscalid	0.000	0.461	0.456	0.800	1.1%	< 30	57.7%	57.0%	50 - 150	
Carbaryl	0.000	0.347	0.347	0.400	0.2%	< 30	86.8%	86.7%	50 - 150	
Carbendazim	0.000	0.362	0.358	0.400	1.1%	< 30	90.8%	89.4%	50 - 150	
Chlorantraniliprole	0.000	0.256	0.266	0.400	3.5%	< 30	63.9%	66.2%	50 - 150	
Chlorfenapyr	0.000	1.677	1.530	2.000	9.2%	< 30	83.9%	76.5%	50 - 150	
Chlorpyrifos	0.000	0.487	0.464	0.400	4.9%	< 30	121.9%	116.1%	50 - 150	
Clofentezine	0.000	0.300	0.306	0.400	1.8%	< 30	75.1%	76.4%	50 - 150	
Cyfluthrin	0.000	1.171	1.290	2.000	9.7%	< 30	58.8%	64.3%	30 - 150	
Cypermethrin	0.013	1.255	1.339	2.000	3.3%	< 30	64.1%	66.3%	50 - 150	
Daminozide	0.075	0.733	0.745	2.000	1.8%	< 30	32.9%	33.5%	30 - 150	
Diazinon	0.000	0.321	0.316	0.400	1.4%	< 30	80.2%	79.1%	50 - 150	
Dichlorvos	0.006	1.648	1.722	2.000	4.4%	< 30	82.1%	85.8%	50 - 150	
Dimethoate	0.000	0.354	0.356	0.400	0.4%	< 30	88.6%	89.0%	50 - 150	
Ethionphos	0.000	0.270	0.271	0.400	0.5%	< 30	67.8%	67.9%	50 - 150	
Etofenprox	0.000	0.544	0.546	0.800	0.3%	< 30	68.0%	68.2%	50 - 150	
Etoxazole	0.004	0.360	0.343	0.400	4.8%	< 30	88.9%	84.8%	50 - 150	
Fenoxycarb	0.000	0.330	0.327	0.400	0.9%	< 30	82.3%	81.7%	50 - 150	
Fenpyroximate	0.002	0.577	0.567	0.800	1.6%	< 30	71.8%	70.7%	50 - 150	
Fipronil	0.000	0.581	0.516	0.800	11.7%	< 30	72.0%	64.3%	50 - 150	
Fonicamid	0.000	0.915	0.866	1.000	5.5%	< 30	91.5%	86.6%	50 - 150	
Fludioxonil	0.000	0.838	0.817	0.800	2.5%	< 30	104.7%	102.1%	50 - 150	
Hexythiazox	0.000	0.987	0.962	1.000	2.6%	< 30	98.7%	96.2%	50 - 150	
Imazalil	0.000	0.328	0.343	0.400	4.6%	< 30	82.0%	85.8%	50 - 150	
Imidacloprid	0.013	0.672	0.646	0.800	4.0%	< 30	82.4%	79.2%	50 - 150	
Kiesoxim-methyl	0.000	0.531	0.577	0.800	8.4%	< 30	66.3%	72.1%	50 - 150	
Malathion	0.000	0.291	0.299	0.400	2.8%	< 30	72.7%	74.7%	50 - 150	
Metaxyl	0.097	0.332	0.335	0.400	1.0%	< 30	58.8%	59.4%	50 - 150	
Methiocarb	0.001	0.181	0.174	0.400	4.1%	< 30	45.1%	43.3%	50 - 150	Q
Methomyl	0.000	0.644	0.668	0.800	3.7%	< 30	80.5%	83.5%	50 - 150	
MCK-264	0.000	0.308	0.312	0.400	1.2%	< 30	76.9%	77.9%	50 - 150	
Mydobutani	0.003	0.316	0.334	0.400	5.3%	< 30	78.4%	82.7%	50 - 150	
Naled	0.000	0.261	0.232	1.000	11.6%	< 30	26.1%	23.2%	50 - 150	Q
Oxaryl	0.000	1.633	1.761	2.000	7.6%	< 30	81.7%	88.1%	50 - 150	
Padobutrazole	0.000	0.462	0.451	0.800	2.3%	< 30	57.7%	56.4%	50 - 150	
Parathion-Methyl	0.000	0.224	0.240	0.400	7.1%	< 30	55.9%	60.0%	30 - 150	
Permethrin	0.000	0.344	0.258	0.400	28.9%	< 30	86.1%	64.0%	50 - 150	
Phosmet	0.000	0.284	0.273	0.400	3.9%	< 30	71.0%	68.3%	50 - 150	
Piperonyl butoxide	0.000	1.372	1.382	2.000	0.7%	< 30	68.8%	69.1%	50 - 150	
Prallethrin	0.001	0.354	0.359	0.400	1.5%	< 30	88.3%	89.7%	50 - 150	
Propiconazole	0.000	0.575	0.584	0.800	1.6%	< 30	71.8%	73.0%	50 - 150	
Propoxur	0.000	0.361	0.359	0.400	0.4%	< 30	90.2%	89.8%	50 - 150	
Pyrethrin (Summe)	0.001	0.172	0.175	0.488	1.7%	< 30	34.9%	35.3%	50 - 150	Q
Pyridaben	0.043	0.325	0.330	0.400	1.7%	< 30	70.9%	71.7%	50 - 150	
Spiromesfen	0.000	0.259	0.261	0.388	0.7%	< 30	66.9%	67.3%	50 - 150	
Spiromesfen	0.000	0.340	0.344	0.400	1.3%	< 30	85.0%	86.1%	50 - 150	
Spirotetramat	0.000	0.280	0.283	0.400	1.0%	< 30	70.0%	70.7%	50 - 150	
Spiroxamine	0.000	0.496	0.493	0.800	0.6%	< 30	62.0%	61.0%	50 - 150	
Tebuconazole	0.000	0.546	0.574	0.800	5.1%	< 30	68.2%	71.8%	50 - 150	
Thiadoprid	0.000	0.355	0.350	0.400	1.6%	< 30	88.8%	87.4%	50 - 150	
Thiamethoxam	0.000	0.346	0.365	0.400	5.3%	< 30	86.5%	91.2%	50 - 150	
Trifloxystrobin	0.000	0.436	0.444	0.400	1.8%	< 30	109.0%	111.1%	50 - 150	



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Report Number: 23-013524/D002.R000
Report Date: 11/21/2023
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Received: 11/15/23 15:53



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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2312908					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		568	584	µg/g	97.3	60 - 120	
Isobutane	ND	< 200		710	767	µg/g	92.6	60 - 120	
Butane	ND	< 200		699	782	µg/g	89.4	60 - 120	
2,2-Dimethylpropane	ND	< 200		902	939	µg/g	96.1	60 - 120	
Methanol	ND	< 200		1530	1600	µg/g	95.6	60 - 120	
Ethylene Oxide	ND	< 30		53.5	57.1	µg/g	93.7	60 - 120	
2-Methylbutane	ND	< 200		1510	1600	µg/g	94.4	60 - 120	
Pentane	ND	< 200		1480	1600	µg/g	92.5	60 - 120	
Ethanol	ND	< 200		1400	1600	µg/g	87.5	70 - 130	
Ethyl Ether	ND	< 200		1470	1600	µg/g	91.9	60 - 120	
2,2-Dimethylbutane	ND	< 30		149	161	µg/g	92.5	60 - 120	
Acetone	ND	< 200		1490	1600	µg/g	93.1	60 - 120	
2-Propanol	ND	< 200		1390	1600	µg/g	86.9	60 - 120	
Ethyl Formate	ND	< 500		1260	1600	µg/g	78.8	70 - 130	
Acetonitrile	ND	< 100		442	488	µg/g	90.6	60 - 120	
Methyl Acetate	ND	< 500		1480	1610	µg/g	91.9	70 - 130	
2,3-Dimethylbutane	ND	< 30		150	163	µg/g	92.0	60 - 120	
Dichloromethane	ND	< 60		404	488	µg/g	82.8	60 - 120	
2-Methylpentane	ND	< 30		122	161	µg/g	75.8	60 - 120	
MTBE	ND	< 500		1560	1650	µg/g	94.5	70 - 130	
3-Methylpentane	ND	< 30		138	162	µg/g	85.2	60 - 120	
Hexane	ND	< 30		141	161	µg/g	87.6	60 - 120	
1-Propanol	ND	< 500		1620	1620	µg/g	100.0	70 - 130	
Methylethylketone	ND	< 500		1500	1610	µg/g	93.2	70 - 130	
Ethyl acetate	ND	< 200		1410	1610	µg/g	87.6	60 - 120	
2-Butanol	ND	< 200		1250	1610	µg/g	77.6	60 - 120	
Tetrahydrofuran	ND	< 100		399	483	µg/g	82.6	60 - 120	
Cyclohexane	ND	< 200		1360	1600	µg/g	85.0	60 - 120	
2-methyl-1-propanol	ND	< 500		1390	1600	µg/g	86.9	70 - 130	
Benzene	ND	< 1		4.11	4.99	µg/g	82.4	60 - 120	
Isopropyl Acetate	ND	< 200		1380	1600	µg/g	86.3	60 - 120	
Heptane	ND	< 200		1370	1600	µg/g	85.6	60 - 120	
1-Butanol	ND	< 500		1430	1610	µg/g	88.8	70 - 130	
Propyl Acetate	ND	< 500		1510	1610	µg/g	93.8	70 - 130	
1,4-Dioxane	ND	< 100		351	480	µg/g	73.1	60 - 120	
2-Ethoxyethanol	ND	< 30		113	161	µg/g	70.2	60 - 120	
Methylisobutylketone	ND	< 500		1470	1610	µg/g	91.3	70 - 130	
3-Methyl-1-butanol	ND	< 500		1390	1610	µg/g	86.3	70 - 130	
Ethylene Glycol	ND	< 200		178	481	µg/g	37.0	60 - 120	Q6
Toluene	ND	< 100		352	483	µg/g	72.9	60 - 120	
Isobutyl Acetate	ND	< 500		1480	1610	µg/g	91.9	70 - 130	
1-Pentanol	ND	< 500		1410	1610	µg/g	87.6	70 - 130	
Butyl Acetate	ND	< 500		1400	1600	µg/g	87.5	70 - 130	
Ethylbenzene	ND	< 200		641	962	µg/g	66.6	60 - 120	
m,p-Xylene	ND	< 200		644	994	µg/g	64.8	60 - 120	
o-Xylene	ND	< 200		618	965	µg/g	64.0	60 - 120	
Cumene	ND	< 30		104	169	µg/g	61.5	60 - 120	
Anisole	ND	< 500		1200	1600	µg/g	75.0	70 - 130	
DMSO	ND	< 500		1020	1600	µg/g	63.8	70 - 130	Q6
1,2-dimethoxyethane	ND	< 50		157	163	µg/g	96.3	70 - 130	
Triethylamine	ND	< 500		1070	1600	µg/g	66.9	70 - 130	Q6
N,N-dimethylformamide	ND	< 150		372	482	µg/g	77.2	70 - 130	
N,N-dimethylacetamide	ND	< 150		399	483	µg/g	82.6	70 - 130	
Pyridine	ND	< 50		119	161	µg/g	73.9	70 - 130	
Sulfolane	ND	< 50		93.6	163	µg/g	57.4	70 - 130	Q6
1,2-Dichloroethane	ND	< 1		0.859	1	µg/g	85.9	70 - 130	
Chloroform	ND	< 1		0.967	1	µg/g	96.7	70 - 130	
Trichloroethylene	ND	< 1		0.867	1	µg/g	86.7	70 - 130	
1,1-Dichloroethane	ND	< 1		0.953	1	µg/g	95.3	70 - 130	



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QC - Sample Duplicate		Sample ID: 23-013136-0002						
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

Units of Measure:

µg/g- Microgram per gram or ppm



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 Portland, OR 97230
 503-254-1794



Report Number: 23-013524/D002.R000
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Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2313003

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0326	0.0329	%	99.1	80.0	- 120	Acceptable	
CBDV	2	0.0327	0.0324	%	101	80.0	- 120	Acceptable	
CBE	2	0.0345	0.0349	%	98.8	80.0	- 120	Acceptable	
CBDA	1	0.0306	0.0311	%	98.3	90.0	- 110	Acceptable	
CBGA	1	0.0310	0.0313	%	99.0	80.0	- 120	Acceptable	
CBG	1	0.0329	0.0332	%	99.2	80.0	- 120	Acceptable	
CBD	1	0.0311	0.0319	%	97.6	90.0	- 110	Acceptable	
THCV	2	0.0332	0.0337	%	98.3	80.0	- 120	Acceptable	
d8THCV	2	0.0271	0.0271	%	100	80.0	- 120	Acceptable	
THCVA	2	0.0316	0.0317	%	99.5	80.0	- 120	Acceptable	
CBN	1	0.0332	0.0332	%	99.9	80.0	- 120	Acceptable	
exo-THC	2	0.0302	0.0308	%	98.2	80.0	- 120	Acceptable	
d9THC	1	0.0323	0.0320	%	101	90.0	- 110	Acceptable	
d8THC	1	0.0275	0.0277	%	99.4	90.0	- 110	Acceptable	
9S-d10THC	1	0.0328	0.0328	%	100	80.0	- 120	Acceptable	
CBL	2	0.0361	0.0351	%	103	80.0	- 120	Acceptable	
9R-d10THC	1	0.0312	0.0314	%	99.3	80.0	- 120	Acceptable	
CBC	2	0.0333	0.0341	%	97.7	80.0	- 120	Acceptable	
THCA	1	0.0299	0.0303	%	98.7	90.0	- 110	Acceptable	
CBCA	2	0.0329	0.0336	%	98.0	80.0	- 120	Acceptable	
CBLA	2	0.0333	0.0336	%	98.9	80.0	- 120	Acceptable	
d9THCP	2	0.0320	0.0331	%	96.7	80.0	- 120	Acceptable	
CBT	2	0.0344	0.0337	%	102	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBDV	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBE	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBDA	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBGA	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBG	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBD	<LOQ	0.00325	%	< 0.00325	Acceptable	
THCV	<LOQ	0.00325	%	< 0.00325	Acceptable	
d8THCV	<LOQ	0.00325	%	< 0.00325	Acceptable	
THCVA	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBN	<LOQ	0.00325	%	< 0.00325	Acceptable	
exo-THC	<LOQ	0.00325	%	< 0.00325	Acceptable	
d9THC	<LOQ	0.00325	%	< 0.00325	Acceptable	
d8THC	<LOQ	0.00325	%	< 0.00325	Acceptable	
9S-d10THC	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBL	<LOQ	0.00325	%	< 0.00325	Acceptable	
9R-d10THC	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBC	<LOQ	0.00325	%	< 0.00325	Acceptable	
THCA	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBCA	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBLA	<LOQ	0.00325	%	< 0.00325	Acceptable	
d9THCP	<LOQ	0.00325	%	< 0.00325	Acceptable	
CBT	<LOQ	0.00325	%	< 0.00325	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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 Portland, OR 97230
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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2313003						
Sample Duplicate		Sample ID: 23-013524-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBDV	0.0254	0.0260	0.00318	%	2.15	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBD	4.17	4.17	0.00318	%	0.0974	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
d9THC	0.314	0.316	0.00318	%	0.389	< 20	Acceptable	
d8THC	0.00735	0.00714	0.00318	%	2.96	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00318	%	NA	< 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: 23-013524/D002.R000
Report Date: 11/21/2023
ORELAP#: OR100028
Purchase Order: 2726980
Received: 11/15/23 15:53





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.