

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU	BATCH #	LOQ: Limit Of Quantitation	
PRODUCT NAME	SERVING SIZE	LOD: Limit Of Detection	
LABORATORY :	OREGON ACCREDITATION: OR100028	1 g = 10 ⁻³ kg = 10 ³ mg = 10 ⁶ µg 1 mg/kg = 1 ppm = 1000 ppb	
POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	mg/serving	mg/g	%
Total THC (d9-THC, THCA)	mg/serving	mg/g	%
Cannabigerol (CBG)	mg/serving	mg/g	%
Cannabinol (CBN)	mg/serving	mg/g	%
Cannabichromene (CBC)	mg/serving	mg/g	%
Tetrahydrocannabinolic Acid (THCA)	mg/serving	mg/g	%
Delta-9-THC (d9-THC)	mg/serving	mg/g	%
Delta-8-THC (d8-THC)	mg/serving	mg/g	%
HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	µg/serving	µg/g	10 µg/day ^[1]
Cadmium	µg/serving	µg/g	4.1 µg/day ^[1]
Lead	µg/serving	µg/g	6 µg/day ^[1]
Mercury	µg/serving	µg/g	2 µg/day ^[1]
PESTICIDES	REGULATORY ACTION LEVEL		
None of the other 59 pesticides tested found above limit of detection in the sample.			10 ppb ^[1]
RESIDUAL SOLVENTS	Results	REGULATORY ACTION LEVEL	
Ethanol	µg/g	50,000 mg/day	
Heptane	µg/g	50,000 mg/day	
None of the 34 residual solvents tested found above limit of quantitation in the sample.			
MICROBIAL	PASS/FAIL		
Yeast & Mold	Pass		
Coliform	Pass		
TERPENES	% OF SAMPLE		
Farnesene	%		
β-Caryophyllene	%		
α-Bisabolol	%		
Guaiol	%		
Humulene	%		
Caryophyllene Oxide	%		



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



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



Report Number: 23-014491/D007.R000
Report Date: 01/04/2024
ORELAP#: OR100028
Purchase Order: 2761898
Received: 12/11/23 16:24

Customer: Etz Hayim Holdings
Product identity: FORM-TN.O.FS.CM50-FI04
Client/Metric ID: .
Laboratory ID: 23-014491-0002

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	4.37		mg/1g		CBD-Total per Serving Size 51.6 mg/1g
CBD per 1g	51.6		mg/1g		
CBDV per 1g	0.670		mg/1g		THC-Total per Serving Size 1.43 mg/1g
CBE per 1g	1.07		mg/1g		(Reported in milligrams per serving)
CBG per 1g	1.55		mg/1g		
CBN per 1g	0.118		mg/1g		
Δ9-THC per 1g	1.43		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	0.0843	21.45%	farnesene	0.0724	18.42%
(-)-caryophyllene oxide	0.0651	16.56%	a-Bisabolol	0.0491	12.49%
(-)-Guaiol	0.0349	8.88%	Humulene	0.0341	8.68%
Menthol	0.0268	6.82%	β-Myrcene	0.0260	6.62%
Total Terpenes	0.393	100.00%			

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Received: 12/11/23 16:24

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

Product identity: FORM-TN.O.FS.CM50-FI04

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-014491-0002

Evidence of Cooling: No

Temp: 19.3 °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: 2313574	Analyze: 12/13/23 10:28:00 P	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	4.37		mg/1g	0.0321	
CBC-A per 1g	< LOQ		mg/1g	0.0321	
CBC-Total per 1g	4.37		mg/1g	0.0602	
CBD per 1g	51.6		mg/1g	0.321	
CBD-A per 1g	< LOQ		mg/1g	0.0321	
CBD-Total per 1g	51.6		mg/1g	0.349	
CBDV per 1g	0.670		mg/1g	0.0321	
CBDV-A per 1g	< LOQ		mg/1g	0.0321	
CBDV-Total per 1g	0.670		mg/1g	0.0598	
CBE per 1g	1.07		mg/1g	0.0321	
CBG per 1g	1.55		mg/1g	0.0321	
CBG-A per 1g	< LOQ		mg/1g	0.0321	
CBG-Total per 1g	1.55		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	0.118		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	< LOQ		mg/1g	0.0321	
Δ9-THC per 1g	1.43		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	1.43		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						
Analyte	Method: J AOAC 2015 V98-6 (mod) ^P	Result	Limits	Units mg/se	Batch: 2313574	Analyze: 12/13/23 10:28:00 P
THCV-Total per 1g		< LOQ		mg/1g		0.0602
Total Cannabinoids per 1g		60.8		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2313675	12/21/23 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2313675	12/21/23 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2313676	12/21/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2313676	12/21/23 AOAC 2014.05 (RAPID) ^P		

Solvents											
Method: Residual Solvents by GC/MS ^P						Units µg/g		Batch 2313769		Analyze 12/21/23 07:32 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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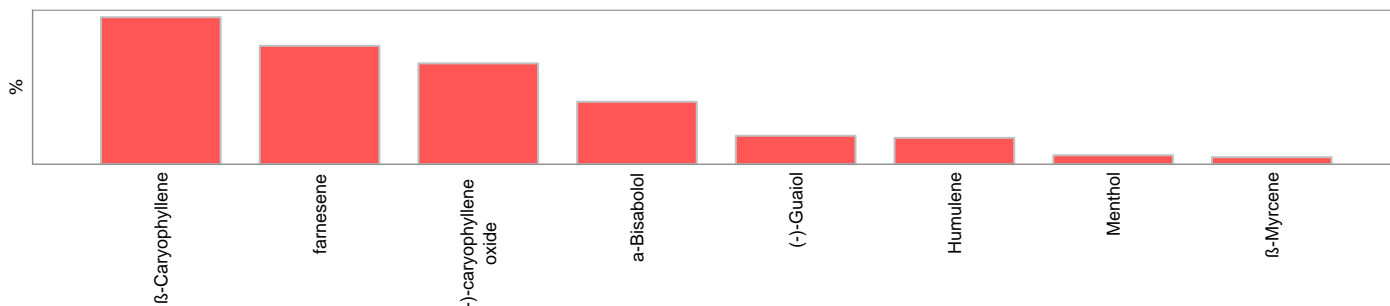


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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod) ^b											
Units mg/kg Batch 2313738 Analyze 12/20/23 10:30 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		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 2400070	Analyze 01/02/24 09:07 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Caryophyllene	0.0843	0.019	21.4504%		farnesene	0.0724	0.019	18.4224%	
(-)-caryophyllene oxide	0.0651	0.019	16.5649%		α-Bisabolol	0.0491	0.019	12.4936%	
(-)-Guaïol	0.0349	0.019	8.8804%		Humulene	0.0341	0.019	8.6768%	
Menthol	0.0268	0.019	6.8193%		β-Myrcene	0.0260	0.019	6.6158%	
(R)-(+)-Limonene	< LOQ	0.019	0.00%		Eucalyptol	< LOQ	0.019	0.00%	
Terpinolene	< LOQ	0.019	0.00%		p-Cymene	< LOQ	0.019	0.00%	
Linalool	< LOQ	0.019	0.00%		(±)-fenchone	< LOQ	0.019	0.00%	
(+)-fenchol	< LOQ	0.019	0.00%		Isoborneol	< LOQ	0.019	0.00%	
Geraniol	< LOQ	0.019	0.00%		(±)-trans-Nerolidol	< LOQ	0.019	0.00%	
(±)-cis-Nerolidol	< LOQ	0.019	0.00%		(+)-Cedrol	< LOQ	0.019	0.00%	
valencene	< LOQ	0.019	0.00%		Geranyl acetate	< LOQ	0.019	0.00%	
(+)-Borneol	< LOQ	0.019	0.00%		(±)-Camphor	< LOQ	0.019	0.00%	
(-)-α-Terpineol	< LOQ	0.019	0.00%		nerol	< LOQ	0.019	0.00%	
(+)-Pulegone	< LOQ	0.019	0.00%		trans-β-Ocimene	< LOQ	0.012	0.00%	
(-)-Isopulegol	< LOQ	0.019	0.00%		(-)-β-Pinene	< LOQ	0.019	0.00%	
α-cedrene	< LOQ	0.019	0.00%		α-phellandrene	< LOQ	0.019	0.00%	
α-pinene	< LOQ	0.019	0.00%		α-Terpinene	< LOQ	0.019	0.00%	
Camphene	< LOQ	0.019	0.00%		cis-β-Ocimene	< LOQ	0.006	0.00%	
d-3-Carene	< LOQ	0.019	0.00%		γ-Terpinene	< LOQ	0.019	0.00%	
Sabinene	< LOQ	0.019	0.00%		Sabinene hydrate	< LOQ	0.019	0.00%	
Total Terpenes	0.393								


Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic [‡]	< LOQ	0.200	mg/kg	0.0899	2313730	12/19/23 AOAC 2013.06 (mod.) [‡]	pass	
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0899	2313730	12/19/23 AOAC 2013.06 (mod.) [‡]	pass	
Lead [‡]	< LOQ	0.500	mg/kg	0.0899	2313730	12/19/23 AOAC 2013.06 (mod.) [‡]	pass	
Mercury [‡]	< LOQ	0.100	mg/kg	0.0449	2313730	12/19/23 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: 4 Document ID: 7148
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2313574

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0300	0.0322	%	93.1	80.0	- 120	Acceptable	
CBDV	2	0.0336	0.0349	%	96.4	80.0	- 120	Acceptable	
CBE	2	0.0336	0.0356	%	94.4	80.0	- 120	Acceptable	
CBDA	1	0.0315	0.0317	%	99.4	90.0	- 110	Acceptable	
CBGA	1	0.0322	0.0315	%	102	80.0	- 120	Acceptable	
CBG	1	0.0310	0.0309	%	100	80.0	- 120	Acceptable	
CBD	1	0.0325	0.0330	%	98.5	90.0	- 110	Acceptable	
THCV	2	0.0326	0.0342	%	95.4	80.0	- 120	Acceptable	
d8THCV	2	0.0275	0.0280	%	98.2	80.0	- 120	Acceptable	
THCVA	2	0.0310	0.0323	%	95.8	80.0	- 120	Acceptable	
CBN	1	0.0339	0.0330	%	103	80.0	- 120	Acceptable	
exo-THC	2	0.0303	0.0315	%	96.0	80.0	- 120	Acceptable	
d9THC	1	0.0341	0.0337	%	101	90.0	- 110	Acceptable	
d8THC	1	0.0328	0.0336	%	97.6	90.0	- 110	Acceptable	
9S-d10THC	1	0.0320	0.0326	%	98.2	80.0	- 120	Acceptable	
CBL	2	0.0313	0.0325	%	96.3	80.0	- 120	Acceptable	
9R-d10THC	1	0.0322	0.0318	%	101	80.0	- 120	Acceptable	
CBC	2	0.0335	0.0354	%	94.7	80.0	- 120	Acceptable	
THCA	1	0.0316	0.0322	%	98.2	90.0	- 110	Acceptable	
CBCA	2	0.0309	0.0344	%	90.0	80.0	- 120	Acceptable	
CBLA	2	0.0316	0.0341	%	92.6	80.0	- 120	Acceptable	
d9THCP	2	0.0345	0.0332	%	104	80.0	- 120	Acceptable	
CBT	2	0.0332	0.0350	%	94.8	80.0	- 120	Acceptable	

Method Blank							
Analyte	Result	LOQ	Units	Limits		Evaluation	Notes
CBDVA	<LOQ	0.00329	%	< 0.00329		Acceptable	
CBDV	<LOQ	0.00329	%	< 0.00329		Acceptable	
CBE	<LOQ	0.00329	%	< 0.00329		Acceptable	
CBDA	<LOQ	0.00329	%	< 0.00329		Acceptable	
CBGA	<LOQ	0.00329	%	< 0.00329		Acceptable	
CBG	<LOQ	0.00329	%	< 0.00329		Acceptable	
CBD	<LOQ	0.00329	%	< 0.00329		Acceptable	
THCV	<LOQ	0.00329	%	< 0.00329		Acceptable	
d8THCV	<LOQ	0.00329	%	< 0.00329		Acceptable	
THCVA	<LOQ	0.00329	%	< 0.00329		Acceptable	
CBN	<LOQ	0.00329	%	< 0.00329		Acceptable	
exo-THC	<LOQ	0.00329	%	< 0.00329		Acceptable	
d9THC	<LOQ	0.00329	%	< 0.00329		Acceptable	
d8THC	<LOQ	0.00329	%	< 0.00329		Acceptable	
9S-d10THC	<LOQ	0.00329	%	< 0.00329		Acceptable	
CBL	<LOQ	0.00329	%	< 0.00329		Acceptable	
9R-d10THC	<LOQ	0.00329	%	< 0.00329		Acceptable	
CBC	<LOQ	0.00329	%	< 0.00329		Acceptable	
THCA	<LOQ	0.00329	%	< 0.00329		Acceptable	
CBCA	<LOQ	0.00329	%	< 0.00329		Acceptable	
CBLA	<LOQ	0.00329	%	< 0.00329		Acceptable	
d9THCP	<LOQ	0.00329	%	< 0.00329		Acceptable	
CBT	<LOQ	0.00329	%	< 0.00329		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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503-254-1794



Report Number: 23-014491/D007.R000
Report Date: 01/04/2024
ORELAP#: OR100028
Purchase Order: 2761898
Received: 12/11/23 16:24

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Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2313574						
Sample Duplicate		Sample ID: 23-014491-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBDV	0.0653	0.0656	0.00328	%	0.398	< 20	Acceptable	
CBE	0.110	0.109	0.00328	%	1.25	< 20	Acceptable	
CBDA	0.00702	0.00716	0.00328	%	2.00	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBG	0.157	0.156	0.00328	%	0.417	< 20	Acceptable	
CBD	5.26	5.23	0.00328	%	0.505	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBN	0.0138	0.0127	0.00328	%	8.55	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
d9THC	0.145	0.146	0.00328	%	0.795	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBC	0.449	0.445	0.00328	%	0.949	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBT	0.118	0.106	0.00328	%	10.2	< 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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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg			Batch ID 2313738			
Method Bank	Laboratory Control Sample							
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spk	LCS % Re	Limits	Notes
Abamectin	0.000	< 0.250		0.981	1.000	98.1	50.0	150
Acephate	0.000	< 0.200		0.719	0.800	89.9	60.0	120
Acequinocyl	0.003	< 1.000		2.938	4.000	75.0	40.0	160
Acetamiprid	0.000	< 0.100		0.386	0.400	96.5	60.0	120
Aldicarb	0.000	< 0.200		0.791	0.800	98.8	60.0	120
Azoxystrobin	0.000	< 0.100		0.358	0.400	89.4	60.0	120
Bifenazate	0.000	< 0.100		0.355	0.400	88.7	60.0	120
Bifenthrin	0.000	< 0.100		0.363	0.400	90.7	50.0	150
Boscalid	0.004	< 0.200		0.766	0.800	95.8	60.0	120
Carbaryl	0.000	< 0.100		0.370	0.400	92.6	60.0	120
Carbendazim	0.000	< 0.100		0.383	0.400	98.2	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.343	0.400	85.7	60.0	120
Chlorfenapyr	0.000	< 0.500		1.514	2.000	75.7	60.0	120
Chlorpyrifos	0.000	< 0.100		0.368	0.400	91.9	60.0	120
Clofentezine	0.000	< 0.100		0.281	0.400	70.3	60.0	120
Cyfluthrin	0.000	< 0.500		1.791	2.000	89.5	50.0	150
Cypermethrin	0.000	< 0.500		1.837	2.000	91.9	50.0	150
Daminozide	0.000	< 0.500		0.580	2.000	29.0	60.0	120
Diazonin	0.000	< 0.100		0.384	0.400	95.9	60.0	120
Dichlorvos	0.000	< 0.500		2.021	2.000	101.0	60.0	120
Dimethoate	0.000	< 0.100		0.394	0.400	98.5	60.0	120
Ethiofoprofos	0.000	< 0.100		0.361	0.400	90.3	60.0	120
Etofenprox	0.000	< 0.200		0.668	0.800	83.5	50.0	150
Etoxazole	0.000	< 0.100		0.378	0.400	94.4	60.0	120
Fenoxycarb	0.000	< 0.100		0.391	0.400	97.9	60.0	120
Fenprophos	0.000	< 0.200		0.771	0.800	96.4	60.0	120
Fipronil	0.000	< 0.200		0.759	0.800	94.9	60.0	120
Fonicamid	0.000	< 0.250		0.849	1.000	84.9	60.0	120
Fludioxonil	0.000	< 0.200		0.818	0.800	102.2	50.0	150
Hexythiazox	0.000	< 0.250		0.972	1.000	97.2	60.0	120
Imazalil	0.000	< 0.100		0.372	0.400	93.0	60.0	120
Imidacloprid	0.000	< 0.200		0.765	0.800	95.6	60.0	120
Kiesoxim-methyl	0.000	< 0.200		0.694	0.800	86.7	60.0	120
Malathion	0.000	< 0.100		0.347	0.400	86.7	60.0	120
Metaxyl	0.000	< 0.100		0.379	0.400	94.6	60.0	120
Methiocarb	0.000	< 0.100		0.360	0.400	90.1	60.0	120
Methomyl	0.000	< 0.200		0.821	0.800	102.7	60.0	120
MCK-264	0.000	< 0.100		0.352	0.400	87.9	50.0	150
Mydobutani	0.000	< 0.100		0.332	0.400	83.1	60.0	120
Naled	0.000	< 0.250		1.025	1.000	102.5	50.0	150
Oxamyl	0.000	< 0.500		1.885	2.000	94.2	60.0	120
Padobutrazole	0.000	< 0.200		0.728	0.800	91.0	60.0	120
Parathion-Methyl	0.000	< 0.100		0.348	0.400	87.0	50.0	150
Permethrin	0.000	< 0.100		0.375	0.400	93.7	50.0	150
Phosmet	0.000	< 0.100		0.365	0.400	91.2	50.0	150
Piperonyl butoxide	0.000	< 0.500		1.964	2.000	98.2	60.0	120
Prallethrin	0.000	< 0.100		0.378	0.400	94.5	60.0	120
Propiconazole	0.000	< 0.200		0.667	0.800	83.3	60.0	120
Propoxur	0.000	< 0.100		0.382	0.400	95.6	60.0	120
Pyrethrin (Summe)	0.000	< 0.100		0.455	0.488	93.4	60.0	120
Pyridaben	0.000	< 0.100		0.385	0.400	96.2	50.0	150
Spinosad	0.000	< 0.100		0.366	0.388	94.4	50.0	150
Spiromesfen	0.000	< 0.100		0.393	0.400	98.2	60.0	120
Spirotetramat	0.000	< 0.100		0.372	0.400	93.1	60.0	120
Spiroxamine	0.000	< 0.200		0.782	0.800	97.8	60.0	120
Tebuconazole	0.000	< 0.200		0.705	0.800	88.2	60.0	120
Thiadoprid	0.000	< 0.100		0.373	0.400	93.2	60.0	120
Thiamethoxam	0.000	< 0.100		0.390	0.400	97.6	60.0	120
Trifloxystrobin	0.000	< 0.100		0.390	0.400	97.4	60.0	120

Q7



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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg				Batch ID 2313738				
Matrix Spke/Matrix Spke Duplicate Recoveries	Result	MS Res	MSD Res	Spike	RFD%	Limit	MS % Re	MSD % Re	Limits	Notes
Abamectin	0.00	0.395	0.517	1.00	26.6%	< 30	39.6%	51.7%	50 - 150	Q
Acephate	0.00	0.673	0.685	0.800	1.9%	< 30	84.4%	85.7%	50 - 150	
Acetamiprid	0.00	0.362	0.367	0.400	1.6%	< 30	90.4%	91.9%	50 - 150	R, Q
Aldicarb	0.00	0.636	0.670	0.800	5.1%	< 30	79.6%	83.7%	50 - 150	
Azoxystrobin	0.00	0.261	0.337	0.400	25.9%	< 30	65.2%	84.2%	50 - 150	
Bifenazate	0.00	0.246	0.255	0.400	4.2%	< 30	61.9%	64.1%	50 - 150	
Bifenthrin	0.00	0.184	0.183	0.400	0.7%	< 30	46.0%	45.7%	50 - 150	Q
Boscalid	0.00	0.577	0.634	0.800	9.5%	< 30	72.4%	79.3%	50 - 150	
Carbaryl	0.00	0.258	0.259	0.400	0.1%	< 30	64.6%	64.7%	50 - 150	
Carbendazim	0.00	0.244	0.253	0.400	3.7%	< 30	60.9%	63.2%	50 - 150	
Chlorantraniliprole	0.00	0.175	0.204	0.400	15.0%	< 30	43.9%	51.0%	50 - 150	Q
Chlorfenapyr	0.00	1.295	1.195	2.000	8.0%	< 30	64.7%	59.8%	50 - 150	
Chlorpyrifos	0.00	0.266	0.272	0.400	2.6%	< 30	64.2%	65.9%	50 - 150	
Clofentezine	0.00	0.238	0.249	0.400	4.8%	< 30	59.4%	62.3%	50 - 150	
Cyfluthrin	0.00	0.902	0.981	2.000	8.4%	< 30	45.1%	49.1%	30 - 150	
Cypermethrin	0.00	0.759	0.771	2.000	1.6%	< 30	37.9%	38.6%	50 - 150	Q
Daminozide	0.00	0.504	0.539	2.000	6.7%	< 30	25.2%	27.0%	30 - 150	Q
Diazinon	0.00	0.265	0.264	0.400	0.9%	< 30	66.9%	66.0%	50 - 150	
Dichlorvos	0.022	1.597	1.619	2.000	1.4%	< 30	78.8%	79.9%	50 - 150	
Dimethoate	0.00	0.335	0.338	0.400	0.9%	< 30	83.7%	84.9%	50 - 150	
Ethionphos	0.00	0.286	0.288	0.400	0.7%	< 30	71.9%	72.0%	50 - 150	
Etofenprox	0.007	0.274	0.288	0.800	2.1%	< 30	33.3%	32.8%	50 - 150	Q
Etoxazole	0.00	0.214	0.201	0.400	5.9%	< 30	53.4%	50.4%	50 - 150	
Fenoxycarb	0.00	0.250	0.252	0.400	0.9%	< 30	62.4%	63.0%	50 - 150	
Fenpyroximate	0.00	0.428	0.418	0.800	2.5%	< 30	53.9%	52.2%	50 - 150	
Fipronil	0.00	0.349	0.360	0.800	3.3%	< 30	43.6%	45.1%	50 - 150	Q
Fonicamid	0.00	0.840	0.880	1.000	4.6%	< 30	84.0%	88.0%	50 - 150	
Fludioxonil	0.00	0.991	1.101	0.800	10.5%	< 30	123.9%	137.6%	50 - 150	
Hexythiazox	0.00	0.282	0.303	1.000	7.1%	< 30	28.2%	30.3%	50 - 150	Q
Imazalil	0.005	0.271	0.304	0.400	11.7%	< 30	66.9%	74.8%	50 - 150	
Imidacloprid	0.00	0.674	0.714	0.800	5.8%	< 30	84.2%	89.2%	50 - 150	
Kiesoxim-methyl	0.00	0.494	0.521	0.800	5.2%	< 30	61.7%	65.1%	50 - 150	
Malathion	0.00	0.230	0.232	0.400	0.8%	< 30	57.9%	58.0%	50 - 150	
Metolaxyl	0.00	0.281	0.254	0.400	10.3%	< 30	70.3%	63.4%	50 - 150	
Methiocarb	0.026	0.252	0.271	0.400	7.7%	< 30	56.7%	61.3%	50 - 150	
Methomyl	0.00	0.725	0.766	0.800	5.4%	< 30	90.7%	95.7%	50 - 150	
MCK-264	0.00	0.250	0.235	0.400	6.0%	< 30	62.4%	58.8%	50 - 150	
Mydobutani	0.00	0.285	0.302	0.400	5.9%	< 30	71.3%	75.6%	50 - 150	
Naled	0.00	0.648	0.571	1.000	12.9%	< 30	64.8%	57.1%	50 - 150	
Oxaryl	0.00	1.698	1.810	2.000	6.3%	< 30	84.9%	90.9%	50 - 150	
Padobutrazole	0.00	0.555	0.618	0.800	10.6%	< 30	69.4%	77.2%	50 - 150	
Parathion-Methyl	0.00	0.227	0.214	0.400	5.6%	< 30	56.6%	53.9%	30 - 150	
Permethrin	0.00	0.209	0.201	0.400	3.6%	< 30	52.2%	50.4%	50 - 150	
Phosmet	0.00	0.238	0.265	0.400	10.8%	< 30	59.9%	66.3%	50 - 150	
Piperonyl butoxide	0.00	1.220	1.183	2.000	3.1%	< 30	61.0%	59.1%	50 - 150	
Prallethrin	0.00	0.133	0.143	0.400	7.0%	< 30	33.2%	35.6%	50 - 150	Q
Propiconazole	0.004	0.530	0.530	0.800	0.0%	< 30	65.8%	65.9%	50 - 150	
Propoxur	0.00	0.283	0.291	0.400	2.8%	< 30	70.7%	72.7%	50 - 150	
Pyrethrin (Summe)	0.00	0.241	0.244	0.488	1.1%	< 30	49.4%	49.9%	50 - 150	Q
Pyridaben	0.00	0.112	0.119	0.400	5.3%	< 30	28.1%	29.6%	50 - 150	
Spirosad	0.00	0.203	0.195	0.388	3.7%	< 30	52.2%	50.3%	50 - 150	
Spiromesfen	0.012	0.214	0.215	0.400	0.2%	< 30	50.6%	50.7%	50 - 150	
Spirotetramat	0.00	0.351	0.368	0.400	4.6%	< 30	87.8%	91.9%	50 - 150	
Spiroxamine	0.00	0.653	0.674	0.800	3.2%	< 30	81.6%	84.2%	50 - 150	
Tebuconazole	0.00	0.497	0.548	0.800	9.7%	< 30	62.2%	68.5%	50 - 150	
Thiadoprid	0.00	0.312	0.336	0.400	7.3%	< 30	78.0%	83.9%	50 - 150	
Thiamethoxam	0.00	0.324	0.359	0.400	10.4%	< 30	80.9%	89.9%	50 - 150	
Trifloxystrobin	0.00	0.204	0.208	0.400	2.3%	< 30	50.9%	52.1%	50 - 150	



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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2313769					
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		678	767	µg/g	88.4	60 - 120	
Butane	ND	< 200		679	782	µg/g	86.8	60 - 120	
2,2-Dimethylpropane	ND	< 200		942	939	µg/g	100.3	60 - 120	
Methanol	ND	< 200		1910	1600	µg/g	119.4	60 - 120	
Ethylene Oxide	ND	< 30		52.8	57.1	µg/g	92.5	60 - 120	
2-Methylbutane	ND	< 200		1820	1600	µg/g	113.8	60 - 120	
Pentane	ND	< 200		1780	1600	µg/g	111.3	60 - 120	
Ethanol	ND	< 200		1600	1600	µg/g	100.0	70 - 130	
Ethyl Ether	ND	< 200		1610	1600	µg/g	100.6	60 - 120	
2,2-Dimethylbutane	ND	< 30		159	161	µg/g	98.8	60 - 120	
Acetone	ND	< 200		1740	1600	µg/g	108.8	60 - 120	
2-Propanol	ND	< 200		1710	1600	µg/g	106.9	60 - 120	
Ethyl Formate	ND	< 500		1160	1600	µg/g	72.5	70 - 130	
Acetonitrile	ND	< 100		558	488	µg/g	114.3	60 - 120	
Methyl Acetate	ND	< 500		1580	1610	µg/g	98.1	70 - 130	
2,3-Dimethylbutane	ND	< 30		166	163	µg/g	101.8	60 - 120	
Dichloromethane	ND	< 60		469	488	µg/g	96.1	60 - 120	
2-Methylpentane	ND	< 30		152	161	µg/g	94.4	60 - 120	
MTBE	ND	< 500		1610	1650	µg/g	97.6	70 - 130	
3-Methylpentane	ND	< 30		164	162	µg/g	101.2	60 - 120	
Hexane	ND	< 30		144	161	µg/g	89.4	60 - 120	
1-Propanol	ND	< 500		1720	1620	µg/g	106.2	70 - 130	
Methyl ethyl ketone	ND	< 500		1580	1610	µg/g	98.1	70 - 130	
Ethyl acetate	ND	< 200		1760	1610	µg/g	109.3	60 - 120	
2-Butanol	ND	< 200		1660	1610	µg/g	103.1	60 - 120	
Tetrahydrofuran	ND	< 100		463	483	µg/g	95.9	60 - 120	
Cyclohexane	ND	< 200		1520	1600	µg/g	95.0	60 - 120	
2-methyl-1-propanol	ND	< 500		1410	1600	µg/g	88.1	70 - 130	
Benzene	ND	< 1		3	4.99	µg/g	60.1	60 - 120	
Isopropyl Acetate	ND	< 200		1760	1600	µg/g	110.0	60 - 120	
Heptane	ND	< 200		1770	1600	µg/g	110.6	60 - 120	
1-Butanol	ND	< 500		1530	1610	µg/g	95.0	70 - 130	
Propyl Acetate	ND	< 500		1620	1610	µg/g	100.6	70 - 130	
1,4-Dioxane	ND	< 100		430	480	µg/g	89.6	60 - 120	
2-Ethoxyethanol	ND	< 30		156	161	µg/g	96.9	60 - 120	
Methylisobutylketone	ND	< 500		1630	1610	µg/g	101.2	70 - 130	
3-Methyl-1-butanol	ND	< 500		1530	1610	µg/g	95.0	70 - 130	
Ethylene Glycol	ND	< 200		393	481	µg/g	81.7	60 - 120	
Toluene	ND	< 100		447	483	µg/g	92.5	60 - 120	
Isobutyl Acetate	ND	< 500		1640	1610	µg/g	101.9	70 - 130	
1-Pentanol	ND	< 500		1620	1610	µg/g	100.6	70 - 130	
Butyl Acetate	ND	< 500		1620	1600	µg/g	101.3	70 - 130	
Ethylbenzene	ND	< 200		898	962	µg/g	93.1	60 - 120	
m,p-Xylene	ND	< 200		893	972	µg/g	91.9	60 - 120	
o-Xylene	ND	< 200		893	965	µg/g	92.5	60 - 120	
Cumene	ND	< 30		157	169	µg/g	92.9	60 - 120	
Anisole	ND	< 500		1360	1600	µg/g	85.0	70 - 130	
DMSO	ND	< 500		1310	1600	µg/g	81.9	70 - 130	
1,2-dimethoxyethane	ND	< 50		157	163	µg/g	96.3	70 - 130	
Triethylamine	ND	< 500		1220	1600	µg/g	76.3	70 - 130	
N,N-dimethylformamide	ND	< 150		432	482	µg/g	89.6	70 - 130	
N,N-dimethylacetamide	ND	< 150		464	483	µg/g	96.1	70 - 130	
Pyridine	ND	< 50		136	161	µg/g	84.5	70 - 130	
Silolane	ND	< 50		132	163	µg/g	81.0	70 - 130	
1,2-Dichloroethane	ND	< 1		0.949	1	µg/g	94.9	70 - 130	
Chloroform	ND	< 1		0.872	1	µg/g	87.2	70 - 130	
Trichloroethylene	ND	< 1		0.758	1	µg/g	75.8	70 - 130	
1,1,1-Trichloroethane	ND	< 1		0.935	1	µg/g	93.5	70 - 130	



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QC- Sample Duplicate Sample ID: 23-014491-0001

Analyte	Result	Org. Result	LOQ Units	RPD	Limits	Accept/ Fail	Notes
Propane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Isobutane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Butane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
2,2-Dimethylpropane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Methanol	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Ethylene Oxide	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
2-Methylbutane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Pentane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Ethanol	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Ethyl Ether	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
2,2-Dimethylbutane	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
Acetone	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
2-Propanol	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Ethyl Formate	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Acetonitrile	ND	#N/A	100 µg/g	#N/A	< 20	#N/A	
Methyl Acetate	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
2,3-Dimethylbutane	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
Dichloromethane	ND	#N/A	60 µg/g	#N/A	< 20	#N/A	
2-Methylpentane	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
MTBE	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
3-Methylpentane	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
Hexane	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
1-Propanol	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Methylethylketone	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Ethyl acetate	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
2-Butanol	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Tetrahydrofuran	ND	#N/A	100 µg/g	#N/A	< 20	#N/A	
Cyclohexane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
2-methyl-1-propanol	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Benzene	ND	#N/A	1 µg/g	#N/A	< 20	#N/A	
Isopropyl Acetate	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Heptane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
1-Butanol	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Propyl Acetate	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
1,4-Dioxane	ND	#N/A	100 µg/g	#N/A	< 20	#N/A	
2-Ethoxyethanol	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
Methylisobutylketone	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
3-Methyl-1-butanol	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Ethylene Glycol	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Toluene	ND	#N/A	100 µg/g	#N/A	< 20	#N/A	
Isobutyl Acetate	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
1-Pentanol	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Butyl Acetate	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Ethylbenzene	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
m,p-Xylene	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
o-Xylene	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Cumene	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
Anisole	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
DMSO	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
1,2-dimethoxyethane	ND	#N/A	50 µg/g	#N/A	< 20	#N/A	
Triethylamine	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
N,N-dimethylformamide	ND	#N/A	150 µg/g	#N/A	< 20	#N/A	
N,N-dimethylacetamide	ND	#N/A	150 µg/g	#N/A	< 20	#N/A	
Pyridine	ND	#N/A	50 µg/g	#N/A	< 20	#N/A	
Sulfolane	ND	#N/A	50 µg/g	#N/A	< 20	#N/A	
1,2-Dichloroethane	ND	#N/A	1 µg/g	#N/A	< 20	#N/A	
Chloroform	ND	#N/A	1 µg/g	#N/A	< 20	#N/A	
Trichloroethylene	ND	#N/A	1 µg/g	#N/A	< 20	#N/A	
1,1-Dichloroethane	ND	#N/A	1 µg/g	#N/A	< 20	#N/A	

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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Terpenes Quality Control Results

Method Reference: EPA 5035				Batch ID: 2400070					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		489	500	µg/g	98%	70 - 130	
Camphene	<LOQ	< 200		479	500	µg/g	96%	70 - 130	
Sabinene	<LOQ	< 200		488	500	µg/g	98%	70 - 130	
b-Pinene	<LOQ	< 200		489	500	µg/g	98%	70 - 130	
b-Myrcene	<LOQ	< 200		480	500	µg/g	96%	70 - 130	
a-phellandrene	<LOQ	< 200		496	500	µg/g	99%	70 - 130	
d-3-Carene	<LOQ	< 200		493	500	µg/g	99%	70 - 130	
a-Terpinene	<LOQ	< 200		508	500	µg/g	102%	70 - 130	
p-Cymene	<LOQ	< 200		490	500	µg/g	98%	70 - 130	
D-Limonene	<LOQ	< 200		496	500	µg/g	99%	70 - 130	
Eucalyptol	<LOQ	< 200		476	500	µg/g	95%	70 - 130	
b-cis-Ocimene	<LOQ	< 67		173	167	µg/g	104%	70 - 130	
b-trans-Ocimene	<LOQ	< 133		332	333	µg/g	100%	70 - 130	
g-Terpinene	<LOQ	< 200		507	500	µg/g	101%	70 - 130	
Sabinene_Hydrate	<LOQ	< 200		528	500	µg/g	106%	70 - 130	
Terpinolene	<LOQ	< 200		510	500	µg/g	102%	70 - 130	
D-Fenchone	<LOQ	< 200		522	500	µg/g	104%	70 - 130	
Linalool	<LOQ	< 200		534	500	µg/g	107%	70 - 130	
Fenchol	<LOQ	< 200		533	500	µg/g	107%	70 - 130	
Camphor	<LOQ	< 200		527	500	µg/g	105%	70 - 130	
Isopulego	<LOQ	< 200		555	500	µg/g	111%	70 - 130	
Isoborneol	<LOQ	< 200		534	500	µg/g	107%	70 - 130	
Borneol	<LOQ	< 200		545	500	µg/g	109%	70 - 130	
DL-Menthol	<LOQ	< 200		542	500	µg/g	108%	70 - 130	
Terpineol	<LOQ	< 200		549	500	µg/g	110%	70 - 130	
Nerol	<LOQ	< 200		509	500	µg/g	102%	70 - 130	
Pulegone	<LOQ	< 200		564	500	µg/g	113%	70 - 130	
Geraniol	<LOQ	< 200		538	500	µg/g	108%	70 - 130	
Geranyl_Acetate	<LOQ	< 200		537	500	µg/g	107%	70 - 130	
a-Cedrene	<LOQ	< 200		558	500	µg/g	112%	70 - 130	
b-Caryophyllene	<LOQ	< 200		565	500	µg/g	113%	70 - 130	
a-Humulene	<LOQ	< 200		557	500	µg/g	111%	70 - 130	
Valenene	<LOQ	< 200		545	500	µg/g	109%	70 - 130	
cis-Nerolidol	<LOQ	< 200		580	500	µg/g	116%	70 - 130	
a-Farnesene	<LOQ	< 200		592	500	µg/g	118%	70 - 130	
trans-Nerolidol	<LOQ	< 200		576	500	µg/g	115%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		569	500	µg/g	114%	70 - 130	
Guaiol	<LOQ	< 200		582	500	µg/g	116%	70 - 130	
Cedrol	<LOQ	< 200		571	500	µg/g	114%	70 - 130	
a-Bisabolol	<LOQ	< 200		565	500	µg/g	113%	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: 2400070					
Sample/Sample Duplicate		Sample ID: 23-015055-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	22300	22200	195	µg/g	0%	< 20	
Camphene	1190	1180	195	µg/g	1%	< 20	
Sabinene	<LOQ	<LOQ	195	µg/g	0%	< 20	
b-Pinene	13400	13300	195	µg/g	1%	< 20	
b-Myrcene	105000	103000	195	µg/g	2%	< 20	
a-phellandrene	1710	1690	195	µg/g	1%	< 20	
d-3-Carene	1190	1170	195	µg/g	2%	< 20	
a-Terpinene	1930	1930	195	µg/g	0%	< 20	
p-Cymene	333	330	195	µg/g	1%	< 20	
D-Limonene	84000	83100	195	µg/g	1%	< 20	
Eucalyptol	1320	1320	195	µg/g	0%	< 20	
b-cis-Ocimene	1030	1020	65.1	µg/g	1%	< 20	
b-trans-Ocimene	13700	13700	130	µg/g	0%	< 20	
g-Terpinene	1320	1330	195	µg/g	1%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	195	µg/g	0%	< 20	
Terpinolene	35500	35300	195	µg/g	1%	< 20	
D-Fenchone	445	433	195	µg/g	3%	< 20	
Linalool	10500	10500	195	µg/g	0%	< 20	
Fenchol	3510	3490	195	µg/g	1%	< 20	
Camphor	<LOQ	<LOQ	195	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	195	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	195	µg/g	0%	< 20	
Borneol	569	582	195	µg/g	2%	< 20	
DL-Menthol	<LOQ	<LOQ	195	µg/g	0%	< 20	
Terpineol	2060	2040	195	µg/g	1%	< 20	
Nerol	<LOQ	<LOQ	195	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	195	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	195	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	195	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	195	µg/g	0%	< 20	
b-Caryophyllene	37500	37200	195	µg/g	1%	< 20	
a-Humulene	14900	14800	195	µg/g	1%	< 20	
Valenene	2480	2480	195	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	195	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	195	µg/g	0%	< 20	
trans-Nerolidol	711	712	195	µg/g	0%	< 20	
Caryophyllene_Oxide	1260	1250	195	µg/g	1%	< 20	
Guaiol	1390	1370	195	µg/g	1%	< 20	
Cedrol	<LOQ	<LOQ	195	µg/g	0%	< 20	
a-Bisabolol	1630	1590	195	µg/g	2%	< 20	

Definitions

RPD Relative Percent Difference



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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.