

## CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

<b>BULK SKU</b> TN.O.FS50		<b>BATCH #</b> DH98(A)		<b>LOQ:</b> Limit Of Quantitation	
<b>PRODUCT NAME</b> Org. Tincture - F.S. - 50mg		<b>SERVING SIZE</b> 1 mL		<b>LOD:</b> Limit Of Detection	
<b>LABORATORY:</b> Columbia Laboratories		<b>OREGON ACCREDITATION:</b> OR100028		1 g = 10 <sup>-3</sup> kg = 10 <sup>3</sup> mg = 10 <sup>6</sup> µg	
				1 mg/kg = 1 ppm = 1000 ppb	
POTENCY		PER SERVING		PER GRAM	
Cannabidiol (CBD)		55.7 mg/serving		59.9 mg/g	5.99 %
Total THC (d9-THC, THCA)		1.99 mg/serving		2.14 mg/g	0.214 %
Cannabigerol (CBG)		0.929 mg/serving		1.00 mg/g	0.100 %
Cannabinol (CBN)		<LOQ mg/serving		<LOQ mg/g	<LOQ %
Cannabichromene (CBC)		1.66 mg/serving		1.78 mg/g	0.178 %
Tetrahydrocannabinolic Acid (THCA)		<LOQ mg/serving		<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)		1.99 mg/serving		2.14 mg/g	0.214 %
Delta-8-THC (d8-THC)		<LOQ mg/serving		<LOQ mg/g	<LOQ %
HEAVY METALS		PER SERVING		PER GRAM	
Arsenic		<LOQ µg/serving		<LOQ µg/g	10 µg/day <sup>[1]</sup>
Cadmium		<LOQ µg/serving		<LOQ µg/g	4.1 µg/day <sup>[1]</sup>
Lead		<LOQ µg/serving		<LOQ µg/g	3.5 µg/day <sup>[2]</sup>
Mercury		<LOQ µg/serving		<LOQ µg/g	2 µg/day <sup>[1]</sup>
PESTICIDES				REGULATORY ACTION LEVEL	
None of the other 59 pesticides tested found above limit of detection in the sample.				10 ppb <sup>[1]</sup>	
RESIDUAL SOLVENTS		Results		REGULATORY ACTION LEVEL	
Ethanol		<LOQ			
Heptane		<LOQ			
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		31.5	%		
β-Caryophyllene		27.0	%		
α-Bisabolol		14.1	%		
Humulene		14.3	%		
Caryophyllene Oxide		7.28	%		



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:** 21-012171/D004.R001  
**Report Date:** 10/27/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 15:30

This is an amended version of report# 21-012171/D004.R000.  
Reason: Sample re-extracted for potency.

**Customer:** Etz Hayim Holdings  
**Product identity:** FORM-DH98(A)-TN.O.FS50  
**Client/Metric ID:** .  
**Laboratory ID:** 21-012171-0001

### Summary

#### Potency:

Analyte per 1ml	Result	Limits	Units	Status	
CBC per 1ml <sup>†</sup>	1 66		mg/1ml		CBD Total per 1ml 55.7 mg/1ml
CBD per 1ml	55 7		mg/1ml		
CBG per 1ml <sup>†</sup>	0 929		mg/1ml		THC-Total per 1ml 1.99 mg/1ml
CBT per 1ml <sup>†</sup>	2 65		mg/1ml		
Δ9 THC per 1ml	1 99		mg/1ml		(Reported in milligrams per serving)



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**Report Number:** 21-012171/D004.R001  
**Report Date:** 10/27/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 15:30

**Customer:** Etz Hayim Holdings  
16427 NE Airport Way  
PORTLAND 97230  
United States of America (USA)  
**Product identity:** FORM-DH98(A)-TN.O.FS50  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 21-012171-0001  
**Evidence of Cooling:** No  
**Temp:** 20.1 °C  
**Relinquished by:** Client  
**Serving Size #1:** 0.93 g  
**Density:** 0.9300 g/ml

## Sample Results

Potency per 1ml		Method J AOAC 2015 V98-6 (mod)Units mg/se			Batch: 2109643	Analyze: 10/26/21 12:00:00 A
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 1ml <sup>†</sup>	1.66		mg/1ml	0.894		
CBC-A per 1ml <sup>†</sup>	< LOQ		mg/1ml	0.894		
CBC-Total per 1ml <sup>†</sup>	< LOQ		mg/1ml	1.68		
CBD per 1ml	55.7		mg/1ml	0.894		
CBD-A per 1ml	< LOQ		mg/1ml	0.894		
CBD-Total per 1ml	55.7		mg/1ml	1.68		
CBDV per 1ml <sup>†</sup>	< LOQ		mg/1ml	0.894		
CBDV-A per 1ml <sup>†</sup>	< LOQ		mg/1ml	0.894		
CBDV-Total per 1ml <sup>†</sup>	< LOQ		mg/1ml	1.67		
CBE per 1ml <sup>†</sup>	< LOQ		mg/1ml	0.894		
CBG per 1ml <sup>†</sup>	0.929		mg/1ml	0.894		
CBG-A per 1ml <sup>†</sup>	< LOQ		mg/1ml	0.894		
CBG-Total per 1ml <sup>†</sup>	< LOQ		mg/1ml	1.67		
CBL per 1ml <sup>†</sup>	< LOQ		mg/1ml	0.894		
CBL-A per 1ml <sup>†</sup>	< LOQ		mg/1ml	0.894		
CBL-Total per 1ml <sup>†</sup>	< LOQ		mg/1ml	1.68		
CBN per 1ml	< LOQ		mg/1ml	0.894		
CBT per 1ml <sup>†</sup>	2.65		mg/1ml	0.894		
Δ8-THCV per 1ml <sup>†</sup>	< LOQ		mg/1ml	0.894		
Δ8-THC per 1ml <sup>†</sup>	< LOQ		mg/1ml	0.894		
Δ9-THC per 1ml	1.99		mg/1ml	0.894		
exo-THC per 1ml <sup>†</sup>	< LOQ		mg/1ml	0.894		
THC-A per 1ml	< LOQ		mg/1ml	0.894		
THC-Total per 1ml	1.99		mg/1ml	1.68		
THCV per 1ml <sup>†</sup>	< LOQ		mg/1ml	0.894		
THCV-A per 1ml <sup>†</sup>	< LOQ		mg/1ml	0.894		
THCV-Total per 1ml <sup>†</sup>	< LOQ		mg/1ml	1.68		
Total Cannabinoids per 1ml	62.9		mg/1ml			



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**Purchase Order:**  
**Received:** 10/14/21 15:30

These test results are representative of the individual sample selected and submitted by the client.

**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.

† = Analyte not NELAP accredited.

**Units of Measure**

g = Gram

g/ml = Gram per milliliter

mg/1ml = Milligram per 1ml

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



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



Report Number: 21-012171/D004.R001  
Report Date: 10/27/2021  
ORELAP#: OR100028  
Purchase Order:  
Received: 10/14/21 15:30



12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

### Cannabis Chain of Custody Record

ORELAP ID: OR100028

Field ID		Date/Time Collected	Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metric ID
FORM-DH98(A)-TN.O.FS5C	9/29	1655			X													Laz Nat Discount
FORM-DH98(A)-TN.O.FS5C	9/29	1655							X	X								
FORM-DH98(A)-TN.O.FS5C	9/29	1655	X			X		X			X							

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)							Client Alias:
<input type="checkbox"/> Rush (3-4 day) (1.5x Standard)							Order Number:
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Proper Container <input checked="" type="checkbox"/>
							Sample Condition
							Temperature: 20.1
							Shipped Via: Client
							Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Revision: 1.02 Control#: CF023  
Effective 01/31/2019 Revised 01/31/2019

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Portland, OR 97230  
503-254-1794



**Report Number:** 21-012171/D004.R001  
**Report Date:** 10/27/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 15:30

Revision #: 0.00 Control : CFL-D06  
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

JAOAC2015 V986

Batch ID: 2109643

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDA	0.190	0.2	%	94.9	85.0 - 115	Acceptable	
CBDV	0.201	0.2	%	100	85.0 - 115	Acceptable	
CBE	0.192	0.2	%	96.1	85.0 - 115	Acceptable	
CBDA	0.193	0.2	%	96.4	85.0 - 115	Acceptable	
CBGA	0.189	0.2	%	94.5	85.0 - 115	Acceptable	
CBG	0.199	0.2	%	99.5	85.0 - 115	Acceptable	
CB	0.204	0.2	%	102	85.0 - 115	Acceptable	
THCV	0.193	0.2	%	96.4	85.0 - 115	Acceptable	
dBTHCV	0.186	0.2	%	92.9	85.0 - 115	Acceptable	
THCA	0.186	0.2	%	93.0	85.0 - 115	Acceptable	
CBN	0.210	0.2	%	105	85.0 - 115	Acceptable	
exo-THC	0.178	0.2	%	88.9	85.0 - 115	Acceptable	
dBTHC	0.202	0.2	%	101	85.0 - 115	Acceptable	
dBTHC	0.193	0.2	%	96.3	85.0 - 115	Acceptable	
CB	0.176	0.2	%	87.8	85.0 - 115	Acceptable	
CB	0.198	0.2	%	98.9	85.0 - 115	Acceptable	
THCA	0.201	0.2	%	100	85.0 - 115	Acceptable	
CBGA	0.195	0.2	%	97.3	85.0 - 115	Acceptable	
CB	0.192	0.2	%	96.1	85.0 - 115	Acceptable	
CB	0.200	0.2	%	100	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<LOQ	0.01	%	< 0.01	Acceptable	
CBDV	<LOQ	0.01	%	< 0.01	Acceptable	
CBE	<LOQ	0.01	%	< 0.01	Acceptable	
CBDA	<LOQ	0.01	%	< 0.01	Acceptable	
CBGA	<LOQ	0.01	%	< 0.01	Acceptable	
CBG	<LOQ	0.01	%	< 0.01	Acceptable	
CB	<LOQ	0.01	%	< 0.01	Acceptable	
THCV	<LOQ	0.01	%	< 0.01	Acceptable	
dBTHCV	<LOQ	0.01	%	< 0.01	Acceptable	
THCA	<LOQ	0.01	%	< 0.01	Acceptable	
CBN	<LOQ	0.01	%	< 0.01	Acceptable	
exo-THC	<LOQ	0.01	%	< 0.01	Acceptable	
dBTHC	<LOQ	0.01	%	< 0.01	Acceptable	
dBTHC	<LOQ	0.01	%	< 0.01	Acceptable	
CB	<LOQ	0.01	%	< 0.01	Acceptable	
CB	<LOQ	0.01	%	< 0.01	Acceptable	
THCA	<LOQ	0.01	%	< 0.01	Acceptable	
CBGA	<LOQ	0.01	%	< 0.01	Acceptable	
CB	<LOQ	0.01	%	< 0.01	Acceptable	
CB	<LOQ	0.01	%	< 0.01	Acceptable	

Abbreviations

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

Units of Measure

% - Percent



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**Report Number:** 21-012171/D004.R001  
**Report Date:** 10/27/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 15:30

Revision #: 0.00 Control : CFL-D06  
Revision Date: 05/31/2019 Effective Date: 05/31/2019

#### Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2109643						
Sample Duplicate		Sample ID: 21-012171-0001-01						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBD A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBS	<LOQ	0.101	0.1	%	NA	< 20	Acceptable	
CBD	5.99	6.10	0.1	%	1.81	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d9THC	0.214	0.220	0.1	%	2.85	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	0.178	0.187	0.1	%	4.70	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBF	0.285	0.125	0.1	%	77.9	< 20	Outlier	Q6

#### Abbreviations

ND - None Detected at or above MRL  
RPD - Relative Percent Difference  
LOQ - Limit of Quantitation  
NA - Calculation Not Applicable given non-numerical results  
Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

#### Units of Measure

% - Percent





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Portland, OR 97230  
503-254-1794



**Report Number:** 21-012171/D004.R001  
**Report Date:** 10/27/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 15:30

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.



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



**Report Number:** 21-012171/D003.R000  
**Report Date:** 10/22/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 15:30

**Customer:** Etz Hayim Holdings  
**Product identity:** FORM-DH98(A)-TN.O.FS50  
**Client/Metric ID:** .  
**Laboratory ID:** 21-012171-0002

## Summary

### Microbiology:

Less than LOQ for all analytes.



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



**Report Number:** 21-012171/D003.R000  
**Report Date:** 10/22/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 15:30

**Customer:** Etz Hayim Holdings  
16427 NE Airport Way  
PORTLAND 97230  
United States of America (USA)  
**Product identity:** FORM-DH98(A)-TN.O.FS50  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 21-012171-0002  
**Evidence of Cooling:** No  
**Temp:** 20.1 °C  
**Relinquished by:** Client  
**Serving Size #1:** 0.93 g  
**Density:** 0.9300 g/ml

## Sample Results

Microbiology									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2109297	10/17/21	AOAC 991.14 (Petrifilm)	X	
Total Coliforms	< LOQ		cfu/g	10	2109297	10/17/21	AOAC 991.14 (Petrifilm)	X	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2109298	10/17/21	AOAC 2014.05 (RAPID)	X	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2109298	10/17/21	AOAC 2014.05 (RAPID)	X	



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**Report Number:** 21-012171/D003.R000  
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**Purchase Order:**  
**Received:** 10/14/21 15:30

These test results are representative of the individual sample selected and submitted by the client.

**Abbreviations**

**Limits:** Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**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.

**Units of Measure**

cfu/g = Colony forming units per gram

% wt = µg/g divided by 10,000

**Glossary of Qualifiers**

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner  
General Manager



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



Report Number: 21-012171/D003.R000  
Report Date: 10/22/2021  
ORELAP#: OR100028  
Purchase Order:  
Received: 10/14/21 15:30



12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

### Cannabis Chain of Custody Record

ORELAP ID: OR100028

Field ID		Date/Time Collected	Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metric ID
FORM-DH98(A)-TN.O.FS5C		9/29 1655			X													Laz Nat Discount
FORM-DH98(A)-TN.O.FS5C		9/29 1655								X	X							
FORM-DH98(A)-TN.O.FS5C		9/29 1655	X			X		X				X						

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)							Client Alias:
<input type="checkbox"/> Rush (3-4 day) (1.5x Standard)							Order Number:
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Proper Container <input checked="" type="checkbox"/>
							Sample Condition
							Temperature: 20.1
							Shipped Via: Client
							Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Revision: 1.02 Control#: CF023  
Effective 01/31/2019 Revised 01/31/2019

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Portland, OR 97230  
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**Report Number:** 21-012171/D003.R000  
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**Purchase Order:**  
**Received:** 10/14/21 15:30

Explanation of QC Flag Comments:

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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.



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**Report Number:** 21-012171/D002.R000  
**Report Date:** 10/22/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 15:30

**Customer:** Etz Hayim Holdings  
**Product identity:** FORM-DH98(A)-TN.O.FS50  
**Client/Metric ID:** .  
**Laboratory ID:** 21-012171-0003

## Summary

### 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
farnesene <sup>†</sup>	0.125	31.49%	β-Caryophyllene <sup>†</sup>	0.107	26.95%
Humulene <sup>†</sup>	0.0566	14.26%	α-Bisabolol <sup>†</sup>	0.0560	14.11%
(-)-caryophyllene oxide <sup>†</sup>	0.0289	7.28%	β-Myrcene <sup>†</sup>	0.0235	5.92%
<b>Total Terpenes<sup>†</sup></b>	<b>0.397</b>	<b>100.00%</b>			

### Metals:

*Less than LOQ for all analytes.*



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Portland, OR 97230  
503-254-1794



**Report Number:** 21-012171/D002.R000  
**Report Date:** 10/22/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/14/21 15:30

**Customer:** Etz Hayim Holdings  
16427 NE Airport Way  
PORTLAND 97230  
United States of America (USA)  
**Product identity:** FORM-DH98(A)-TN.O.FS50  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 21-012171-0003  
**Evidence of Cooling:** No  
**Temp:** 20.1 °C  
**Relinquished by:** Client  
**Serving Size #1:** 0.93 g  
**Density:** 0.9300 g/ml

### Sample Results

Solvents						Method Residual Solvents by GC/MS		Units µg/g	Batch 2109438	Analyze 10/20/21 09:54 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	< LOQ		200					
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass				
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< 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 <sup>1</sup>	< 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	< LOQ	70.0	30.0	pass				
m,p-Xylene	< LOQ		200			Methanol	< LOQ	3000	200	pass				
Methylene chloride	< LOQ	600	60.0	pass		Methylpropane	< 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	< LOQ	2170	600	pass										





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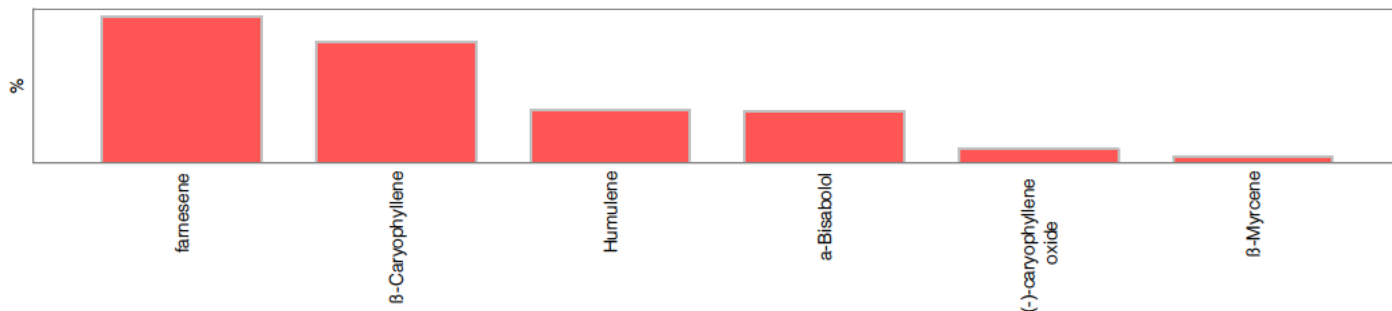


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Pesticides						Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2109360 Analyze 10/18/21 01:30 PM					
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
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		Paclobutrazole	< LOQ	0.40	0.200	pass	
Parathion-Methyl	< LOQ	0.20	0.200	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	0.200	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 2109407	Analyze 10/19/21 12:00 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
farnesene <sup>†</sup>	0.125	0.019	31.486%		β-Caryophyllene <sup>†</sup>	0.107	0.019	26.952%	
Humulene <sup>†</sup>	0.0566	0.019	14.2569%		α-Bisabolol <sup>†</sup>	0.0560	0.019	14.1058%	
(-)-caryophyllene oxide <sup>†</sup>	0.0289	0.019	7.2796%		β-Myrcene <sup>†</sup>	0.0235	0.019	5.9194%	
Geraniol <sup>†</sup>	< LOQ	0.019	0.00%		(-)-Guaio <sup>†</sup>	< LOQ	0.019	0.00%	
Linalool <sup>†</sup>	< LOQ	0.019	0.00%		(R)-(+)-Limonene <sup>†</sup>	< LOQ	0.019	0.00%	
p-Cymene <sup>†</sup>	< LOQ	0.019	0.00%		(±)-trans-Nerolidol <sup>†</sup>	< LOQ	0.019	0.00%	
α-Terpinene <sup>†</sup>	< LOQ	0.019	0.00%		(+)-fenchol <sup>†</sup>	< LOQ	0.019	0.00%	
trans-β-Ocimene <sup>†</sup>	< LOQ	0.013	0.00%		cis-β-Ocimene <sup>†</sup>	< LOQ	0.006	0.00%	
γ-Terpinene <sup>†</sup>	< LOQ	0.019	0.00%		nerol <sup>†</sup>	< LOQ	0.019	0.00%	
(-)-α-Terpineol <sup>†</sup>	< LOQ	0.019	0.00%		Terpinolene <sup>†</sup>	< LOQ	0.019	0.00%	
Sabinene hydrate <sup>†</sup>	< LOQ	0.019	0.00%		valencene <sup>†</sup>	< LOQ	0.019	0.00%	
Sabinene <sup>†</sup>	< LOQ	0.019	0.00%		(+)-Borneol <sup>†</sup>	< LOQ	0.019	0.00%	
(+)-Pulegone <sup>†</sup>	< LOQ	0.019	0.00%		α-pinene <sup>†</sup>	< LOQ	0.019	0.00%	
Geranyl acetate <sup>†</sup>	< LOQ	0.019	0.00%		α-phellandrene <sup>†</sup>	< LOQ	0.019	0.00%	
(±)-Camphor <sup>†</sup>	< LOQ	0.019	0.00%		(±)-fenchone <sup>†</sup>	< LOQ	0.019	0.00%	
(-)-Isopulegol <sup>†</sup>	< LOQ	0.019	0.00%		(-)-β-Pinene <sup>†</sup>	< LOQ	0.019	0.00%	
(+)-Cedrol <sup>†</sup>	< LOQ	0.019	0.00%		(±)-cis-Nerolidol <sup>†</sup>	< LOQ	0.019	0.00%	
α-cedrene <sup>†</sup>	< LOQ	0.019	0.00%		Camphene <sup>†</sup>	< LOQ	0.019	0.00%	
d-3-Carene <sup>†</sup>	< LOQ	0.019	0.00%		Eucalyptol <sup>†</sup>	< LOQ	0.019	0.00%	
Isoborneol <sup>†</sup>	< LOQ	0.019	0.00%		Menthol <sup>†</sup>	< LOQ	0.019	0.00%	
<b>Total Terpenes</b>	<b>0.397</b>								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0500	2109529	10/21/21	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	0.0500	2109529	10/21/21	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.500	mg/kg	0.0500	2109529	10/21/21	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.0250	2109529	10/21/21	AOAC 2013.06 (mod.)	pass	X



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These test results are representative of the individual sample selected and submitted by the client.

**Abbreviations**

**Limits:** Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**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.

† = Analyte not NELAP accredited.

**Units of Measure**

µg/g = Microgram per gram

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

% = Percentage of sample

% wt = µg/g divided by 10,000

**Glossary of Qualifiers**

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner  
General Manager



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12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

### Cannabis Chain of Custody Record

ORELAP ID: OR100028

Field ID		Date/Time Collected	Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metric ID
FORM-DH98(A)-TN.O.FS5C	9/29	1655			X													Laz Nat Discount
FORM-DH98(A)-TN.O.FS5C	9/29	1655							X	X								
FORM-DH98(A)-TN.O.FS5C	9/29	1655	X			X		X			X							

Collected By:	Relinquished By:	Date:	Time:	Received by:	Date:	Time:	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)							Client Alias:
<input type="checkbox"/> Rush (3-4 day) (1.5x Standard)							Order Number:
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Proper Container <input checked="" type="checkbox"/>
							Sample Condition
							Temperature: 20.1
							Shipped Via: Client
							Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Revision: 1.02 Control#: CF023  
Effective 01/31/2019 Revised 01/31/2019

[www.pixislabs.com](http://www.pixislabs.com)

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Portland, OR 97230  
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Revision: Document ID:  
Legacy ID: Effective:

### Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Laboratory Control Sample		Batch ID: 2109360		
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	0.015	< 0.250		1.195	1.000	119.5	70.1 - 130	
Acequinocyl	0.000	< 1.000		5.404	4.000	135.1	71.3 - 132	Q1
Acetamiprid	0.000	< 0.100		0.484	0.400	121.0	70.4 - 131	
Aldicarb	0.000	< 0.200		0.988	0.800	123.4	73.3 - 136	
Abamectin	0.000	< 0.250		1.424	1.000	142.4	71.8 - 133	Q1
Azoxystrobin	0.008	< 0.100		0.493	0.400	123.4	69.7 - 129	
Bifenazate	0.000	< 0.100		0.464	0.400	116.1	74.3 - 138	
Bifenthrin	0.000	< 0.100		0.497	0.400	124.4	69.7 - 129	
Boscalid	0.000	< 0.200		0.978	0.800	122.2	70.1 - 130	
Carbaryl	0.000	< 0.100		0.495	0.400	123.8	70.0 - 130	
Carbofuran	0.001	< 0.100		0.503	0.400	125.8	71.8 - 133	
Chlorantraniliprol	0.000	< 0.100		0.371	0.400	92.8	69.1 - 128	
Chlorfenapyr	0.000	< 0.500		2.237	2.000	111.8	71.0 - 132	
Chlorpyrifos	0.000	< 0.100		0.489	0.400	122.2	68.2 - 127	
Clofentezine	0.000	< 0.100		0.487	0.400	121.8	69.5 - 129	
Cyfluthrin	0.000	< 0.500		2.660	2.000	133.0	71.9 - 134	
Cypermethrin	0.000	< 0.500		2.569	2.000	128.4	70.9 - 132	
Daminozide	0.098	< 0.500		2.209	2.000	110.5	71.7 - 133	
Diazinon	0.000	< 0.100		0.507	0.400	126.7	70.1 - 130	
Dichlorvos	0.000	< 0.500		2.295	2.000	114.7	68.4 - 127	
Dimethoat	0.000	< 0.100		0.495	0.400	123.8	70.5 - 131	
Ethoprophos	0.000	< 0.100		0.478	0.400	119.5	69.2 - 128	
Etofenprox	0.000	< 0.200		1.057	0.800	132.2	71.9 - 134	
Etoxazol	0.000	< 0.100		0.482	0.400	120.6	70.5 - 131	
Fenoxycarb	0.000	< 0.100		0.510	0.400	127.4	69.9 - 130	
Fenpyroximat	0.000	< 0.200		0.983	0.800	122.9	70.5 - 131	
Fipronil	0.000	< 0.200		1.015	0.800	126.9	71.9 - 133	
Flonicamid	0.000	< 0.250		1.194	1.000	119.4	70.4 - 131	
Fludioxonil	0.000	< 0.200		0.941	0.800	117.7	73.7 - 137	
Hexythiazox	0.000	< 0.250		1.233	1.000	123.3	68.8 - 128	
Imazalil	0.000	< 0.100		0.487	0.400	121.8	72.0 - 134	
Imidacloprid	0.000	< 0.200		0.998	0.800	124.8	69.8 - 130	
Kresoxim-Methyl	0.000	< 0.200		1.040	0.800	130.0	70.0 - 130	
Malathion	0.000	< 0.100		0.500	0.400	125.1	69.4 - 129	
Metaxalyl	0.000	< 0.100		0.498	0.400	124.5	70.5 - 131	
Methiocarb	0.000	< 0.100		0.501	0.400	125.3	70.1 - 130	
Methomyl	0.000	< 0.200		0.949	0.800	118.6	69.7 - 129	
M/GK 264	0.000	< 0.100		0.507	0.400	126.8	69.5 - 129	
Myclobutanil	0.000	< 0.100		0.500	0.400	124.9	70.2 - 130	
Naled	0.000	< 0.250		1.217	1.000	121.7	72.1 - 134	
Oxamyl	0.000	< 0.500		2.262	2.000	113.1	70.6 - 131	
Paclobutrazol	0.000	< 0.200		1.002	0.800	125.3	70.5 - 131	
Parathion Methyl	0.000	< 0.200		1.052	0.800	131.5	72.0 - 134	
Permethrin	0.000	< 0.100		0.493	0.400	123.3	70.1 - 130	
Phosmet	0.000	< 0.100		0.509	0.400	127.3	69.7 - 130	
Piperonyl butoxide	0.000	< 0.500		2.543	2.000	127.2	72.7 - 135	
Prallethrin	0.000	< 0.100		0.497	0.400	124.3	70.7 - 131	
Propiconazole	0.000	< 0.200		0.993	0.800	124.1	70.1 - 130	
Propoxur	0.003	< 0.100		0.488	0.400	122.1	69.6 - 129	
Pyrethrins	0.000	< 0.100		0.407	0.413	98.5	68.9 - 128	
Pyridaben	0.000	< 0.100		0.510	0.400	127.5	69.7 - 129	
Spinosad	0.000	< 0.100		0.494	0.388	127.2	72.2 - 134	
Spiromesifen	0.000	< 0.100		0.505	0.400	126.3	71.1 - 132	
Spirotetramat	0.000	< 0.100		0.488	0.400	121.9	70.4 - 131	
Spiroxamine	0.000	< 0.200		0.978	0.800	122.2	68.4 - 127	
Tebuconazol	0.000	< 0.200		0.988	0.800	123.5	69.9 - 130	
Thiadoprid	0.000	< 0.100		0.487	0.400	121.7	69.5 - 129	
Thiamethoxam	0.000	< 0.100		0.421	0.400	105.3	69.7 - 129	
Trifloxystrobin	0.000	< 0.100		0.492	0.400	123.1	70.4 - 131	





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### Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662									
Units: mg/Kg									
Batch ID: 2109360									
Sample ID: 21-012171-0003									
Matrix Spike/Matrix Spike Duplicate Recoveries									
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits
Acetate	0.000	1.208	1.269	1.000	5.0%	< 30	120.8%	126.9%	50 - 150
Acetaminophen	0.000	5.025	4.899	4.000	2.5%	< 30	125.6%	122.5%	50 - 150
Acetamiprid	0.000	0.493	0.514	0.400	4.2%	< 30	123.3%	128.5%	50 - 150
Aldicarb	0.000	1.012	1.047	0.800	3.4%	< 30	126.5%	130.8%	50 - 150
Abamectin	0.000	1.507	1.505	1.000	0.2%	< 30	150.7%	150.5%	50 - 150
Azoxystrobin	0.008	0.459	0.480	0.400	4.4%	< 30	112.9%	118.0%	50 - 150
Bifenthrin	0.000	0.572	0.554	0.400	3.1%	< 30	142.9%	138.6%	50 - 150
Bifenthrin	0.000	0.429	0.425	0.400	0.8%	< 30	107.1%	106.3%	50 - 150
Boscalid	0.000	0.952	0.955	0.800	0.3%	< 30	119.0%	119.3%	50 - 150
Carbaryl	0.000	0.473	0.484	0.400	2.3%	< 30	118.3%	121.0%	50 - 150
Carbofuran	0.000	0.479	0.488	0.400	1.7%	< 30	119.9%	122.0%	50 - 150
Chlorantraniliprol	0.000	0.383	0.410	0.400	6.9%	< 30	95.7%	102.6%	50 - 150
Chlorfenapyr	0.000	2.524	2.510	2.000	0.5%	< 30	126.2%	125.5%	50 - 150
Chlorpyrifos	0.000	0.473	0.485	0.400	2.5%	< 30	118.2%	121.2%	50 - 150
Clofentezine	0.000	0.473	0.482	0.400	2.0%	< 30	118.1%	120.5%	50 - 150
Cyfluthrin	0.000	1.807	1.776	2.000	1.7%	< 30	90.3%	88.8%	30 - 150
Cypermethrin	0.000	1.832	1.813	2.000	1.1%	< 30	91.6%	90.6%	50 - 150
Daminozide	0.000	2.451	2.539	2.000	3.6%	< 30	122.5%	127.0%	30 - 150
Diazinon	0.000	0.491	0.510	0.400	3.8%	< 30	122.8%	127.6%	50 - 150
Dichlorvos	0.000	2.374	2.326	2.000	2.0%	< 30	118.7%	116.3%	50 - 150
Dimethoat	0.000	0.502	0.510	0.400	1.5%	< 30	125.5%	127.4%	50 - 150
Ethoprophos	0.000	0.452	0.483	0.400	6.6%	< 30	113.1%	120.8%	50 - 150
Etofenprox	0.000	0.842	0.823	0.800	2.3%	< 30	105.2%	102.9%	50 - 150
Etoxazol	0.000	0.456	0.436	0.400	4.3%	< 30	113.9%	109.1%	50 - 150
Fenoxycarb	0.000	0.497	0.514	0.400	3.2%	< 30	124.3%	128.4%	50 - 150
Fenpyroximat	0.000	0.653	0.672	0.800	2.9%	< 30	81.6%	84.0%	50 - 150
Fipronil	0.000	0.845	0.873	0.800	3.3%	< 30	105.6%	109.2%	50 - 150
Flonicamid	0.000	1.186	1.218	1.000	2.7%	< 30	118.6%	121.8%	50 - 150
Fludoxonil	0.000	1.010	1.090	0.800	7.6%	< 30	126.3%	136.3%	50 - 150
Hexythiazox	0.000	1.147	1.149	1.000	0.1%	< 30	114.7%	114.9%	50 - 150
Imazalil	0.008	0.514	0.518	0.400	0.8%	< 30	126.6%	127.5%	50 - 150
Imidacloprid	0.000	1.018	1.050	0.800	3.1%	< 30	127.2%	131.3%	50 - 150
Kresoxim-Methyl	0.000	0.999	1.006	0.800	0.7%	< 30	124.9%	125.8%	50 - 150
Malathion	0.000	0.463	0.488	0.400	5.2%	< 30	115.7%	121.9%	50 - 150
Metaxalyl	0.000	0.514	0.541	0.400	5.1%	< 30	128.6%	135.3%	50 - 150
Methiocarb	0.000	0.475	0.488	0.400	2.6%	< 30	118.9%	121.9%	50 - 150
Methomyl	0.000	0.793	0.821	0.800	3.5%	< 30	99.1%	102.6%	50 - 150
M/GK 264	0.000	0.475	0.501	0.400	5.3%	< 30	118.8%	125.2%	50 - 150
Myclobutanil	0.000	0.475	0.487	0.400	2.4%	< 30	118.8%	121.7%	50 - 150
Naled	0.000	1.214	1.217	1.000	0.2%	< 30	121.4%	121.7%	50 - 150
Oxamyl	0.000	2.245	2.190	2.000	2.5%	< 30	112.3%	109.5%	50 - 150
Paclobutrazol	0.000	0.932	0.956	0.800	2.6%	< 30	116.5%	119.5%	50 - 150
Parathion Methyl	0.000	0.933	0.959	0.800	2.8%	< 30	116.6%	119.9%	30 - 150
Permethrin	0.000	0.437	0.441	0.400	0.9%	< 30	109.3%	110.3%	50 - 150
Phosmet	0.000	0.499	0.497	0.400	0.4%	< 30	124.9%	124.3%	50 - 150
Piperonyl butoxide	0.000	2.326	2.328	2.000	0.1%	< 30	116.3%	116.4%	50 - 150
Prallethrin	0.000	0.674	0.693	0.400	2.9%	< 30	168.4%	173.4%	50 - 150
Propiconazole	0.000	0.912	0.928	0.800	1.7%	< 30	114.0%	116.0%	50 - 150
Propoxur	0.000	0.476	0.490	0.400	3.0%	< 30	118.9%	122.6%	50 - 150
Pyrethrins	0.000	0.362	0.369	0.413	1.9%	< 30	87.7%	89.4%	50 - 150
Pyridaben	0.000	0.464	0.468	0.400	0.9%	< 30	115.9%	116.9%	50 - 150
Spinosad	0.000	0.502	0.515	0.388	2.6%	< 30	129.4%	132.8%	50 - 150
Spiromesifen	0.000	0.476	0.495	0.400	4.1%	< 30	118.9%	123.8%	50 - 150
Spirotetramat	0.000	0.531	0.566	0.400	6.5%	< 30	132.7%	141.5%	50 - 150
Spiroxamine	0.000	0.991	0.992	0.800	0.1%	< 30	123.9%	124.1%	50 - 150
Tebuconazole	0.000	0.914	0.913	0.800	0.1%	< 30	114.2%	114.1%	50 - 150
Thiadoprid	0.000	0.493	0.517	0.400	4.9%	< 30	123.2%	129.3%	50 - 150
Thiamethoxam	0.000	0.451	0.470	0.400	4.2%	< 30	112.7%	117.5%	50 - 150
Trifloxystrobin	0.000	0.479	0.492	0.400	2.7%	< 30	119.8%	123.1%	50 - 150



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### Terpenes Quality Control Results

Method Reference: EPA5035				Batch D: 2109407					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		435	500	µg/g	87%	70 - 130	
Camphene	<LOQ	< 200		459	500	µg/g	92%	70 - 130	
Sabinene	<LOQ	< 200		429	500	µg/g	86%	70 - 130	
b-Phene	<LOQ	< 200		425	500	µg/g	85%	70 - 130	
b-Myrcene	<LOQ	< 200		451	500	µg/g	90%	70 - 130	
a-phellandrene	<LOQ	< 200		463	500	µg/g	93%	70 - 130	
d-3-Caene	<LOQ	< 200		506	500	µg/g	101%	70 - 130	
a-Terpinene	<LOQ	< 200		384	500	µg/g	77%	70 - 130	
p-Cymene	<LOQ	< 200		444	500	µg/g	89%	70 - 130	
D-Limonene	<LOQ	< 200		412	500	µg/g	82%	70 - 130	
Eucalyptol	<LOQ	< 200		429	500	µg/g	86%	70 - 130	
b-as-Ocimene	<LOQ	< 67		145	167	µg/g	87%	70 - 130	
b-trans-Ocimene	<LOQ	< 133		299	333	µg/g	90%	70 - 130	
g-Terpinene	<LOQ	< 200		427	500	µg/g	85%	70 - 130	
Sabinene Hydrate	<LOQ	< 200		400	500	µg/g	80%	70 - 130	
Terpinolene	<LOQ	< 200		378	500	µg/g	76%	70 - 130	
D-Fenchone	<LOQ	< 200		432	500	µg/g	86%	70 - 130	
Linalool	<LOQ	< 200		474	500	µg/g	95%	70 - 130	
Fenchol	<LOQ	< 200		416	500	µg/g	83%	70 - 130	
Camphor	<LOQ	< 200		422	500	µg/g	84%	70 - 130	
Isopulego	<LOQ	< 200		444	500	µg/g	89%	70 - 130	
Isoborneol	<LOQ	< 200		422	500	µg/g	84%	70 - 130	
Borneol	<LOQ	< 200		419	500	µg/g	84%	70 - 130	
DL-Menthol	<LOQ	< 200		425	500	µg/g	85%	70 - 130	
Terpineol	<LOQ	< 200		399	500	µg/g	80%	70 - 130	
Nerol	<LOQ	< 200		390	500	µg/g	78%	70 - 130	
Rulepene	<LOQ	< 200		441	500	µg/g	88%	70 - 130	
Geraniol	<LOQ	< 200		437	500	µg/g	87%	70 - 130	
Geranyl Acetate	<LOQ	< 200		408	500	µg/g	82%	70 - 130	
a-Cedrene	<LOQ	< 200		414	500	µg/g	83%	70 - 130	
b-Caryophyllene	<LOQ	< 200		385	500	µg/g	77%	70 - 130	
a-Humulene	<LOQ	< 200		461	500	µg/g	92%	70 - 130	
Valenene	<LOQ	< 200		366	500	µg/g	73%	70 - 130	
cis-Nerolidol	<LOQ	< 200		425	500	µg/g	85%	70 - 130	
a-Farnesene	<LOQ	< 200		494	500	µg/g	99%	70 - 130	
trans-Nerolidol	<LOQ	< 200		434	500	µg/g	87%	70 - 130	
Caryophyllene Oxide	<LOQ	< 200		523	500	µg/g	105%	70 - 130	
Guaiol	<LOQ	< 200		438	500	µg/g	88%	70 - 130	
Cedrol	<LOQ	< 200		395	500	µg/g	79%	70 - 130	
a-Bisabolol	<LOQ	< 200		427	500	µg/g	85%	70 - 130	

#### Definitions

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



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### Terpenes Quality Control Results

Method Reference: EPA5035				Batch D: 2109407			
Sample/Sample Duplicate		Sample D: 21-012071-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	1850	1790	187	µg/g	3%	< 20	
Camphene	292	292	187	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	187	µg/g	0%	< 20	
b-Phene	2400	2360	187	µg/g	2%	< 20	
b-Myrcene	44200	43000	187	µg/g	3%	< 20	
a-phellandrene	1010	969	187	µg/g	4%	< 20	
d-3-Caene	700	728	187	µg/g	4%	< 20	
a-Terpinene	1010	1030	187	µg/g	2%	< 20	
p-Cymene	295	247	187	µg/g	18%	< 20	
D-Limonene	10300	10100	187	µg/g	2%	< 20	
Eucalyptol	<LOQ	<LOQ	187	µg/g	0%	< 20	
b-cis-OCimene	267	248	62.3	µg/g	7%	< 20	
b-trans-OCimene	5850	5700	125	µg/g	3%	< 20	
g-Terpinene	704	699	187	µg/g	1%	< 20	
Sabinene Hydrate	<LOQ	<LOQ	187	µg/g	0%	< 20	
Terpinolene	22800	22400	187	µg/g	2%	< 20	
D-Fenchone	<LOQ	<LOQ	187	µg/g	0%	< 20	
Linalool	1230	1200	187	µg/g	2%	< 20	
Fenchol	1040	1030	187	µg/g	1%	< 20	
Camphor	<LOQ	<LOQ	187	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	187	µg/g	0%	< 20	
Isborneol	<LOQ	<LOQ	187	µg/g	0%	< 20	
Borneol	240	240	187	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	187	µg/g	0%	< 20	
Terpineol	917	898	187	µg/g	2%	< 20	
Nerol	<LOQ	<LOQ	187	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	187	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	187	µg/g	0%	< 20	
Geranyl Acetate	<LOQ	<LOQ	187	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	187	µg/g	0%	< 20	
b-Caryophyllene	7510	7390	187	µg/g	2%	< 20	
a-Humulene	3200	3080	187	µg/g	4%	< 20	
Valenene	624	572	187	µg/g	9%	< 20	
cis-Nerolidol	<LOQ	<LOQ	187	µg/g	0%	< 20	
a-Farnesene	6700	6590	187	µg/g	2%	< 20	
trans-Nerolidol	537	501	187	µg/g	7%	< 20	
Caryophyllene Oxide	423	414	187	µg/g	2%	< 20	
Guaiol	5070	5010	187	µg/g	1%	< 20	
Cedrol	<LOQ	<LOQ	187	µg/g	0%	< 20	
a-Bisabolol	1100	1070	187	µg/g	3%	< 20	

#### Definitions

RPD Relative Percent Difference





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Laboratory Quality Control Results									
Residual Solvents					Batch ID: 2109438				
Method Blank					Laboratory Control Sample				
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		487	407	µg/g	119.7	70 - 130	
Isobutane	ND	< 200		567	491	µg/g	115.5	70 - 130	
Butane	ND	< 200		564	491	µg/g	114.9	70 - 130	
2,2-Dimethylpropane	ND	< 200		745	609	µg/g	122.3	70 - 130	
Methanol	ND	< 200		1610	1610	µg/g	100.0	70 - 130	
Ethylene Oxide	ND	< 30		37	38.9	µg/g	95.1	70 - 130	
2-Methylbutane	ND	< 200		1580	1610	µg/g	98.1	70 - 130	
Pentane	ND	< 200		1570	1610	µg/g	97.5	70 - 130	
Ethanol	ND	< 200		1810	1610	µg/g	112.4	70 - 130	
Ethyl Ether	ND	< 200		1610	1610	µg/g	100.0	70 - 130	
2,2-Dimethylbutane	ND	< 30		162	164	µg/g	98.8	70 - 130	
Acetone	ND	< 200		1580	1610	µg/g	98.1	70 - 130	
2-Propanol	ND	< 200		1700	1610	µg/g	105.6	70 - 130	
Ethyl Formate	ND	< 500		1540	1610	µg/g	95.7	70 - 130	
Acetonitrile	ND	< 100		485	484	µg/g	100.2	70 - 130	
Methyl Acetate	ND	< 500		1640	1610	µg/g	101.9	70 - 130	
2,3-Dimethylbutane	ND	< 30		188	167	µg/g	112.6	70 - 130	
Dichloromethane	ND	< 60		522	491	µg/g	106.3	70 - 130	
2-Methylpentane	ND	< 30		184	169	µg/g	111.5	70 - 130	
MTBE	ND	< 500		1670	1600	µg/g	104.4	70 - 130	
3-Methylpentane	ND	< 30		187	172	µg/g	108.7	70 - 130	
Hexane	ND	< 30		175	167	µg/g	104.8	70 - 130	
1-Propanol	ND	< 500		1530	1610	µg/g	95.0	70 - 130	
Methylethylketone	ND	< 500		1510	1620	µg/g	93.2	70 - 130	
Ethyl acetate	ND	< 200		1610	1610	µg/g	100.0	70 - 130	
2-Butanol	ND	< 200		1630	1610	µg/g	101.2	70 - 130	
Tetrahydrofuran	ND	< 100		529	483	µg/g	109.5	70 - 130	
Cyclohexane	ND	< 200		1530	1610	µg/g	95.0	70 - 130	
2-methyl-1-propanol	ND	< 500		1690	1620	µg/g	101.9	70 - 130	
Benzene	ND	< 1		5.30	5.30	µg/g	99.8	70 - 130	
Isopropyl Acetate	ND	< 200		1670	1620	µg/g	103.1	70 - 130	
Heptane	ND	< 200		1510	1610	µg/g	93.8	70 - 130	
1-Butanol	ND	< 500		1670	1610	µg/g	103.7	70 - 130	
Propyl Acetate	ND	< 500		1640	1620	µg/g	101.2	70 - 130	
1,4-Dioxane	ND	< 100		518	489	µg/g	105.9	70 - 130	
2-Ethoxyethanol	ND	< 30		152	167	µg/g	91.0	70 - 130	
Methyl isobutylketone	ND	< 500		1420	1610	µg/g	88.2	70 - 130	
3-Methyl-1-butanol	ND	< 500		1270	1610	µg/g	78.9	70 - 130	
Ethylene Glycol	ND	< 200		477	504	µg/g	94.6	70 - 130	
Toluene	ND	< 200		489	484	µg/g	101.0	70 - 130	
Isobutyl Acetate	ND	< 500		1210	1610	µg/g	75.2	70 - 130	
1-Pentanol	ND	< 500		1210	1610	µg/g	75.2	70 - 130	
Butyl Acetate	ND	< 500		1680	1620	µg/g	103.7	70 - 130	
Ethyl benzene	ND	< 200		988	968	µg/g	102.1	70 - 130	
m,p-Xylene	ND	< 200		1050	977	µg/g	107.5	70 - 130	
o-Xylene	ND	< 200		1050	982	µg/g	106.9	70 - 130	
Cumene	ND	< 30		173	169	µg/g	105.3	70 - 130	
Anisole	ND	< 500		1590	1630	µg/g	97.5	70 - 130	
DMSO	ND	< 500		1540	1630	µg/g	94.5	70 - 130	
1,2-dimethoxyethane	ND	< 50		174	162	µg/g	107.4	70 - 130	
Triethylamine	ND	< 500		1710	1670	µg/g	102.4	70 - 130	
N,N-dimethylformamide	ND	< 150		467	502	µg/g	93.0	70 - 130	
N,N-dimethylacetamide	ND	< 150		444	489	µg/g	91.0	70 - 130	
Pyridine	ND	< 50		88	166	µg/g	51.8	70 - 130 Q6	
1,2-Dichloroethane	ND	< 1		1.14	1	µg/g	114.0	70 - 130	
Chloroform	ND	< 1		1.15	1	µg/g	115.0	70 - 130	
Tetrachloroethylene	ND	< 1		1.15	1	µg/g	115.0	70 - 130	



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QC - Sample Duplicate		Sample ID: 21-012202-0001						
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	
Methylcyclohexane	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	
Methyl isobutyl ketone	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	200	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	
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	

#### Abbreviations

ND - None Detected at or above MRL

RPD - Relative Percent Difference

LOQ - Limit of Quantitation

06 - Quality control outside QC limits. Data acceptable based on remaining QC.

#### Units of Measure:

µg/g - Microgram per gram or ppm



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Portland, OR 97230  
503-254-1794



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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.