

**CONSOLIDATED TEST RESULTS SUMMARY**

Please see the following pages for full test results.

<b>BULK SKU</b> CAP.RLX25	<b>BATCH #</b> DK76	<b>LOQ: Limit Of Quantitation</b>	
<b>PRODUCT NAME</b> CBD Relax Capsules	<b>SERVING SIZE</b> 2 Capsules	<b>LOD: Limit Of Detection</b>	
<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	Percent
Cannabidiol (CBD)	50.3 mg/serving	69.9 mg/g	6.99 %
Total THC (d9-THC, THCA)	0.6 mg/serving	0.85 mg/g	0.09 %
Cannabigerol (CBG)	0.3 mg/serving	0.46 mg/g	0.05 %
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Cannabichromene (CBC)	0.6 mg/serving	0.86 mg/g	0.09 %
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	0.6 mg/serving	0.85 mg/g	0.09 %
Delta-8-THC (d8-THC)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	0.1 µg/serving	0.13 µg/g	10 µg/day <sup>1)</sup>
Cadmium	0.0 µg/serving	0.03 µg/g	4.1 µg/day <sup>1)</sup>
Lead	0.2 µg/serving	0.24 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	50,000 mg/day	
Heptane	<LOQ	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		



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:** 21-015117/D002.R000  
**Report Date:** 01/04/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/29/21 14:35

**Customer:** Etz Hayim Holdings  
**Product identity:** FORM-DK76-CAP.RLX25  
**Client/Metric ID:** .  
**Laboratory ID:** 21-015117-0001

### Summary

**Potency:**

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g <sup>†</sup>	0.861		mg/1g		CBD Total per 1g 69.9 mg/1g
CBD per 1g	69.9		mg/1g		
CBDV per 1g <sup>†</sup>	0.310		mg/1g		THC-Total per 1g 0.849 mg/1g
CBG per 1g <sup>†</sup>	0.460		mg/1g		
CBT per 1g <sup>†</sup>	0.443		mg/1g		
Δ9 THC per 1g	0.849		mg/1g		(Reported in milligrams per serving)



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**Purchase Order:**  
**Received:** 12/29/21 14:35



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

**Product identity:** FORM-DK76-CAP.RLX25

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 21-015117-0001

**Evidence of Cooling:** No

**Temp:** 12.4 °C

**Relinquished by:** Client

**Serving Size #1:** 1 g

### Sample Results

Potency per 1g					
Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2200023 Analyze: 12/31/21 3:55:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g <sup>†</sup>	0.861		mg/1g	0.0330	
CBC-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.0330	
CBC-Total per 1g <sup>†</sup>	0.861		mg/1g	0.0619	
CBD per 1g	69.9		mg/1g	3.30	
CBD-A per 1g	< LOQ		mg/1g	0.0330	
CBD-Total per 1g	69.9		mg/1g	3.32	
CBDV per 1g <sup>†</sup>	0.310		mg/1g	0.0330	
CBDV-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.0330	
CBDV-Total per 1g <sup>†</sup>	0.310		mg/1g	0.0615	
CBE per 1g <sup>†</sup>	< LOQ		mg/1g	0.0330	
CBG per 1g <sup>†</sup>	0.460		mg/1g	0.0330	
CBG-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.0330	
CBG-Total per 1g <sup>†</sup>	0.460		mg/1g	0.0615	
CBL per 1g <sup>†</sup>	< LOQ		mg/1g	0.0330	
CBL-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.0330	
CBL-Total per 1g <sup>†</sup>	< LOQ		mg/1g	0.0619	
CBN per 1g	< LOQ		mg/1g	0.0330	
CBT per 1g <sup>†</sup>	0.443		mg/1g	0.0330	
Δ8-THCV per 1g <sup>†</sup>	< LOQ		mg/1g	0.0330	
Δ8-THC per 1g <sup>†</sup>	< LOQ		mg/1g	0.0330	
Δ9-THC per 1g	0.849		mg/1g	0.0330	
exo-THC per 1g <sup>†</sup>	< LOQ		mg/1g	0.0330	
THC-A per 1g	< LOQ		mg/1g	0.0330	
THC-Total per 1g	0.849		mg/1g	0.0619	
THCV per 1g <sup>†</sup>	< LOQ		mg/1g	0.0330	
THCV-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.0330	
THCV-Total per 1g <sup>†</sup>	< LOQ		mg/1g	0.0619	
Total Cannabinoids per 1g	72.8		mg/1g		



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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, 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

mg/1g = Milligram per 1g

% = Percentage of sample

% wt =  $\mu\text{g/g}$  divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



12423 NE Whitaker Way  
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Received: 12/29/21 14:35



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

**Cannabis Chain of Custody Record**

ORELAP ID: OR100028

Company: ETZHH INC			Analysis Requested													Purchase Order Number:						
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	Project Number:	
																					Project Name:	
<input type="checkbox"/> Report Instructions: <input type="checkbox"/> Send to State - METRC <input checked="" type="checkbox"/> Email Final Results: <input type="checkbox"/> Fax Final Results <input type="checkbox"/> Cash/Check/CC/Net 30 Other:																						
Comments/Metric ID																						
FORM-DK76-CAP.RLX25			12/1 1130					X													Laz Nat Discount	
FORM-DK76-CAP.RLX25			12/1 1130									X	X									
FORM-DK76-CAP.RLX25			12/1 1130			X			X		X			X							potency first	

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)		12/29/2021	11:30		12/29	14:35	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
							Sample Condition
							Temperature: 13°C
							Shipped Via: Overnight
							Evidence of cooling: <input type="checkbox"/> Yes <input 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:** 21-015117/D002.R000  
**Report Date:** 01/04/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/29/21 14:35

Revision # 0 00 Con rol CFL D06  
Revision Da e 05/31/2019 Effec ive Da e 05/31/2019

Laboratory Quality Control Results

JAOAC2015 V986							
Batch ID: 2200023							
Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.0100	0.01	%	100	85.0 - 115	Acceptable	
CBDV	0.0105	0.01	%	105	85.0 - 115	Acceptable	
CBE	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBDA	0.0105	0.01	%	105	85.0 - 115	Acceptable	
CBGA	0.00984	0.01	%	98.4	85.0 - 115	Acceptable	
CBG	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBD	0.0106	0.01	%	106	85.0 - 115	Acceptable	
THCV	0.00992	0.01	%	99.2	85.0 - 115	Acceptable	
d8THCV	0.00964	0.01	%	96.4	85.0 - 115	Acceptable	
THCVA	0.00949	0.01	%	94.9	85.0 - 115	Acceptable	
CBN	0.0103	0.01	%	103	85.0 - 115	Acceptable	
exo-THC	0.00860	0.01	%	86.0	85.0 - 115	Acceptable	
d9THC	0.00949	0.01	%	94.9	85.0 - 115	Acceptable	
d8THC	0.00875	0.01	%	87.5	85.0 - 115	Acceptable	
CBL	0.00859	0.01	%	85.9	85.0 - 115	Acceptable	
CBC	0.00888	0.01	%	88.8	85.0 - 115	Acceptable	
THCA	0.00957	0.01	%	95.7	85.0 - 115	Acceptable	
CBCA	0.00887	0.01	%	88.7	85.0 - 115	Acceptable	
CBLA	0.00878	0.01	%	87.8	85.0 - 115	Acceptable	
CBT	0.00742	0.01	%	74.2	85.0 - 115	Acceptable	Q6

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBDV	<LOQ	0.003	%	< 0.003	Acceptable	
CBE	<LOQ	0.003	%	< 0.003	Acceptable	
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	<LOQ	0.003	%	< 0.003	Acceptable	
d9THC	<LOQ	0.003	%	< 0.003	Acceptable	
d8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<LOQ	0.003	%	< 0.003	Acceptable	

Abbreviations

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

% - Percent



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**Report Number:** 21-015117/D002.R000  
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**Purchase Order:**  
**Received:** 12/29/21 14:35

Revision # 0 00 Con rol CFL D06  
 Revision Da e 05/31/2019 Effec ive Da e 05/31/2019

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2200023						
Sample Duplicate		Sample D 21-015117-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0310	0.0307	0.003	%	0.816	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0460	0.0413	0.003	%	10.7	< 20	Acceptable	
CBD	6.99	7.11	0.003	%	1.72	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.0849	0.0765	0.003	%	10.4	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0861	0.0776	0.003	%	10.5	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.0443	0.0404	0.003	%	9.24	< 20	Acceptable	

**Abbreviations**

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- NA - Calculation Not Applicable given non-numerical results

**Units of Measure:**

%- Percent



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**Report Number:** 21-015117/D002.R000  
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**Received:** 12/29/21 14:35

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:** 21-015117/D004.R000  
**Report Date:** 01/10/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/29/21 14:35

**Customer:** Etz Hayim Holdings  
**Product identity:** FORM-DK76-CAP.RLX25  
**Client/Metric ID:** .  
**Laboratory ID:** 21-015117-0002

### Summary

-----  
**Microbiology:**

Less than LOQ for all analytes.



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 503-254-1794

**Report Number:** 21-015117/D004.R000  
**Report Date:** 01/10/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/29/21 14:35



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

**Product identity:** FORM-DK76-CAP.RLX25

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 21-015117-0002

**Evidence of Cooling:** No

**Temp:** 12.4 °C

**Relinquished by:** Client

### Sample Results

#### Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2200059	01/07/22	AOAC 991.14 (Petrifilm)	X	
Total Coliforms	< LOQ		cfu/g	10	2200059	01/07/22	AOAC 991.14 (Petrifilm)	X	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2200060	01/08/22	AOAC 2014.05 (RAPID)	X	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2200060	01/08/22	AOAC 2014.05 (RAPID)	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, 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.

**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  
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503-254-1794



Report Number: 21-015117/D004.R000  
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Received: 12/29/21 14:35



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

Cannabis Chain of Custody Record

ORELAP ID: OR100028

Company: ETZHH INC			Analysis Requested													Purchase Order Number:						
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	Project Number:	
																					Project Name:	
<input type="checkbox"/> Report Instructions: <input type="checkbox"/> Send to State - METRC <input checked="" type="checkbox"/> Email Final Results: <input type="checkbox"/> Fax Final Results <input type="checkbox"/> Cash/Check/CC/Net 30 Other:																						
Comments/Metric ID																						
FORM-DK76-CAP.RLX25			12/1 1130					X													Laz Nat Discount	
FORM-DK76-CAP.RLX25			12/1 1130									X	X									
FORM-DK76-CAP.RLX25			12/1 1130			X			X		X			X							potency first	

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)		12/29/2021	14:30		12/29	14:35	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
							Sample Condition
							Temperature: 13°C
							Shipped Via: Client
							Evidence of cooling: <input type="checkbox"/> Yes <input 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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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.
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LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
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B1	The sample concentration is greater than 5 times the blank concentration.
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**Report Number:** 21-015117/D003.R000  
**Report Date:** 01/10/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/29/21 14:35

**Customer:** Etz Hayim Holdings  
**Product identity:** FORM-DK76-CAP.RLX25  
**Client/Metric ID:** .  
**Laboratory ID:** 21-015117-0003

### Summary

**Residual Solvents:**

*All analytes passing and less than LOQ.*

**Pesticides:**

*All analytes passing and less than LOQ.*

**Terpenes:**

*Less than LOQ for all analytes.*

**Metals:**

Analyte	Result	Units	Limit	Status	Analyte	Result	Unit	Limit	Status
Lead	0.240	mg/kg	0.500	pass	Arsenic	0.131	mg/kg	0.200	pass
Cadmium	0.0288	mg/kg	0.200	pass					



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**Report Number:** 21-015117/D003.R000  
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**Purchase Order:**  
**Received:** 12/29/21 14:35



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

**Product identity:** FORM-DK76-CAP.RLX25

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 21-015117-0003

**Evidence of Cooling:** No

**Temp:** 12.4 °C

**Relinquished by:** Client

### Sample Results

Solvents		Method Residual Solvents by GC/MS				Units µg/g	Batch 2200164	Analyze 01/10/22 08:38 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-Dimethyl butane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethyl butane	< 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 (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							



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



**Report Number:** 21-015117/D003.R000  
**Report Date:** 01/10/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/29/21 14:35

Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2200120 Analyze 01/07/22 08:07 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	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		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		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							





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Portland, OR 97230  
503-254-1794

**Report Number:** 21-015117/D003.R000  
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**Purchase Order:**  
**Received:** 12/29/21 14:35



Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2200180	Analyze 01/07/22 03:45 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Caryophyllene†	< LOQ	0.019	0.00%		a-Bisabolol†	< LOQ	0.019	0.00%	
Humulene†	< LOQ	0.019	0.00%		Geraniol†	< LOQ	0.019	0.00%	
β-Myrcene†	< LOQ	0.019	0.00%		a-Terpinene†	< LOQ	0.019	0.00%	
Linalool†	< LOQ	0.019	0.00%		cis-β-Ocimene†	< LOQ	0.006	0.00%	
trans-β-Ocimene†	< LOQ	0.013	0.00%		gamma-Terpinene†	< LOQ	0.019	0.00%	
(-)-Guaiol†	< LOQ	0.019	0.00%		Terpinolene†	< LOQ	0.019	0.00%	
nerol†	< LOQ	0.019	0.00%		(+)-Pulegone†	< LOQ	0.019	0.00%	
Sabinene hydrate†	< LOQ	0.019	0.00%		Sabinene†	< LOQ	0.019	0.00%	
p-Cymene†	< LOQ	0.019	0.00%		(-)-a-Terpineol†	< LOQ	0.019	0.00%	
(R)-(+)-Limonene†	< LOQ	0.019	0.00%		Geranyl acetate†	< LOQ	0.019	0.00%	
(+)-fenchol†	< LOQ	0.019	0.00%		(-)-caryophyllene oxide†	< LOQ	0.019	0.00%	
a-pinene†	< LOQ	0.019	0.00%		(+)-Borneol†	< LOQ	0.019	0.00%	
(±)-trans-Nerolidol†	< LOQ	0.019	0.00%		(±)-Camphor†	< LOQ	0.019	0.00%	
(-)-Isopulegol†	< LOQ	0.019	0.00%		(-)-β-Pinene†	< LOQ	0.019	0.00%	
(+)-Cedrol†	< LOQ	0.019	0.00%		(±)-cis-Nerolidol†	< LOQ	0.019	0.00%	
(±)-fenchone†	< LOQ	0.019	0.00%		a-cedrene†	< LOQ	0.019	0.00%	
a-phellandrene†	< LOQ	0.019	0.00%		Camphene†	< LOQ	0.019	0.00%	
d-3-Carene†	< LOQ	0.019	0.00%		Eucalyptol†	< LOQ	0.019	0.00%	
farnesene†	< LOQ	0.019	0.00%		Isoborneol†	< LOQ	0.019	0.00%	
Menthol†	< LOQ	0.019	0.00%		valencene†	< LOQ	0.019	0.00%	
<b>Total Terpenes</b>	<b>&lt; LOQ</b>								

Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Arsenic	0.131	0.200	mg/kg	0.00901	2200116	01/06/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	0.0288	0.200	mg/kg	0.00901	2200116	01/06/22	AOAC 2013.06 (mod.)	pass	X
Lead	0.240	0.500	mg/kg	0.00901	2200116	01/06/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.00450	2200116	01/06/22	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, 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**

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



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



Report Number: 21-015117/D003.R000  
Report Date: 01/10/2022  
ORELAP#: OR100028  
Purchase Order:  
Received: 12/29/21 14:35



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

Cannabis Chain of Custody Record

ORELAP ID: OR100028

Company: ETZHH INC			Analysis Requested													Purchase Order Number:			
[Redacted]			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	Project Number:	
																		Project Name:	
Field ID	Date/Time Collected																	<input type="checkbox"/> Report Instructions: <input type="checkbox"/> Send to State - METRC <input checked="" type="checkbox"/> Email Final Results: <input type="checkbox"/> Fax Final Results <input type="checkbox"/> Cash/Check/CC/Net 30 Other:	
FORM-DK76-CAP.RLX25	12/1 1130				X													Laz Nat Discount	
FORM-DK76-CAP.RLX25	12/1 1130								X	X									
FORM-DK76-CAP.RLX25	12/1 1130	X			X			X			X							potency first	

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)	[Redacted]	12/29/2021	11:30	[Redacted]	12/29	14:35	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
							Sample Condition
							Temperature: 13°C
							Shipped Via: Overnight
							Evidence of cooling: <input type="checkbox"/> Yes <input 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:** 21-015117/D003.R000  
**Report Date:** 01/10/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/29/21 14:35

Revision: 2 Document ID: 3120  
 LegacyID: CFLC21E fective:

Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg		Laboratory Control Sample		Batch ID: 2200120	
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits
Method blank	0.015	< 0.250		0.955	1.000	95.5	69.7 - 129
Accephate	0.131	< 1.000		5.442	4.000	136.1	67.8 - 126
Acetaminophen	0.000	< 0.100		0.431	0.400	107.7	73.4 - 136
Aldicarb	0.000	< 0.200		0.912	0.800	114.0	88.7 - 165
Abamectin	0.000	< 0.250		1.179	1.000	117.9	75.9 - 141
Azoxystrobin	0.000	< 0.100		0.467	0.400	116.6	72.1 - 134
Bifenazate	0.000	< 0.100		0.472	0.400	118.0	74.3 - 138
Bifenthrin	0.000	< 0.100		0.470	0.400	117.6	70.8 - 131
Boscalid	0.000	< 0.200		0.914	0.800	114.2	73.6 - 137
Carbaryl	0.000	< 0.100		0.443	0.400	110.7	73.9 - 137
Carbofuran	0.000	< 0.100		0.414	0.400	103.6	74.1 - 138
Chlorantraniliprol	0.000	< 0.100		0.454	0.400	113.6	81.5 - 151
Chlorfenapyr	0.153	< 0.500		2.720	2.000	136.0	74.8 - 139
Chlorpyrifos	0.024	< 0.100		0.428	0.400	106.9	72.1 - 134
Ofentozine	0.000	< 0.100		0.360	0.400	90.0	42.7 - 79.3
Ofluthrin	0.000	< 0.500		2.212	2.000	110.6	77.5 - 144
Opemethrin	0.000	< 0.500		2.311	2.000	115.6	75.2 - 140
Daminozide	0.000	< 0.500		0.577	2.000	28.8	26.2 - 48.7
Diazinon	0.000	< 0.100		0.438	0.400	109.4	75.6 - 140
Dichlorvos	0.000	< 0.500		2.194	2.000	109.7	79.8 - 148
Dimethoat	0.000	< 0.100		0.438	0.400	109.5	72.9 - 135
Ethoprophos	0.000	< 0.100		0.457	0.400	114.4	73.8 - 137
Etofenprox	0.000	< 0.200		0.925	0.800	115.6	72.6 - 135
Etoxazol	0.000	< 0.100		0.487	0.400	121.9	82.9 - 154
Fenoxycarb	0.000	< 0.100		0.457	0.400	114.2	72.1 - 134
Fenpyroximat	0.000	< 0.200		0.928	0.800	116.0	72.7 - 135
Fipronil	0.000	< 0.200		0.923	0.800	115.4	73.6 - 137
Fonicamid	0.000	< 0.250		1.079	1.000	107.9	76.9 - 143
Fludioxonil	0.000	< 0.200		0.772	0.800	96.5	75.1 - 139
Hexythiazox	0.000	< 0.250		1.158	1.000	115.8	70.2 - 130
Imaza il	0.047	< 0.100		0.458	0.400	114.5	71.1 - 132
Imidacloprid	0.000	< 0.200		0.899	0.800	112.3	73.7 - 137
Kresoxim-Methyl	0.000	< 0.200		0.934	0.800	116.8	72.9 - 135
Malathion	0.018	< 0.100		0.442	0.400	110.4	73.7 - 137
Metaxyl	0.000	< 0.100		0.442	0.400	110.5	73.3 - 136
Methiocarb	0.000	< 0.100		0.436	0.400	108.9	74.1 - 138
Methomyl	0.000	< 0.200		0.798	0.800	99.8	71.0 - 132
MGK 264	0.000	< 0.100		0.458	0.400	114.4	75.7 - 141
Myclobutanil	0.000	< 0.100		0.475	0.400	118.7	72.3 - 134
Naled	0.000	< 0.250		1.064	1.000	106.4	39.8 - 73.9
Oxaryl	0.000	< 0.500		2.045	2.000	102.3	71.9 - 134
Padobutrazol	0.000	< 0.200		0.886	0.800	110.8	72.5 - 135
Parathion Methyl	0.000	< 0.200		0.746	0.800	93.2	71.9 - 133
Permethrin	0.000	< 0.100		0.472	0.400	118.0	74.1 - 138
Phosmet	0.000	< 0.100		0.450	0.400	112.5	72.6 - 135
Piperonyl butoxide	0.038	< 0.500		2.189	2.000	109.4	74.6 - 139
Prallethrin	0.000	< 0.100		0.443	0.400	110.8	71.4 - 133
Propiconazole	0.008	< 0.200		0.914	0.800	114.3	74.1 - 138
Propoxur	0.000	< 0.100		0.442	0.400	110.5	72.9 - 135
Pyrethrins	0.000	< 0.100		0.446	0.413	108.0	65.6 - 122
Pyridaben	0.000	< 0.100		0.447	0.400	111.7	73.7 - 137
Spinosad	0.000	< 0.100		0.475	0.388	122.4	75.7 - 141
Spiromesfen	0.002	< 0.100		0.483	0.400	120.6	74.6 - 139
Spirotetramet	0.000	< 0.100		0.465	0.400	116.2	71.8 - 133
Spiroxamine	0.000	< 0.200		0.860	0.800	107.6	72.1 - 134
Tebuconazol	0.000	< 0.200		0.899	0.800	112.4	72.3 - 134
Thiadoprid	0.000	< 0.100		0.450	0.400	112.6	72.7 - 135
Thiamethoxam	0.000	< 0.100		0.440	0.400	110.1	72.4 - 134
Trifloxystrobin	0.000	< 0.100		0.474	0.400	118.4	73.5 - 136



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 Report Date: 01/10/2022  
 ORELAP#: OR100028  
 Purchase Order:  
 Received: 12/29/21 14:35



Revision: 2 Document ID: 3120  
 LegacyID: CFLC21E fective:

Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg					BatchID: 2200120			
Matrix Spike/ Matrix Spike Duplicate Recoveries		Sample ID: 21-015088-0003								
Analyte	Result	MSRes	MSD Res	Spike	RFD%	Limit	MS%Rec	MSD %Rec	Limits	Notes
Acephate	0.020	0.837	0.827	1.000	1.2%	< 30	81.7%	80.7%	50 - 150	
Acetamiprid	0.000	13.567	13.645	4.000	0.6%	< 30	339.2%	341.1%	50 - 150	Q1
Acetamiprid	0.000	0.460	0.458	0.400	0.3%	< 30	115.0%	114.6%	50 - 150	
Aldicarb	0.000	0.971	0.866	0.800	11.4%	< 30	121.3%	108.2%	50 - 150	
Abamectin	0.000	1.262	1.289	1.000	2.1%	< 30	126.2%	128.9%	50 - 150	
Azoxystrobin	0.000	0.582	0.605	0.400	3.8%	< 30	145.6%	151.2%	50 - 150	Q1
Bifenazate	0.000	0.537	0.562	0.400	4.5%	< 30	134.3%	140.4%	50 - 150	
Bifenthrin	0.000	1.240	1.302	0.400	4.9%	< 30	309.9%	325.5%	50 - 150	Q1
Boscalid	0.000	1.119	1.111	0.800	0.7%	< 30	139.9%	138.9%	50 - 150	
Carbaryl	0.000	0.446	0.442	0.400	0.8%	< 30	111.4%	110.4%	50 - 150	
Carbofuran	0.000	0.631	0.608	0.400	3.7%	< 30	157.7%	152.0%	50 - 150	Q1
Chlorantraniliprol	0.000	0.407	0.389	0.400	4.4%	< 30	101.8%	97.4%	50 - 150	
Chlorfenapyr	0.000	5.277	5.465	2.000	3.5%	< 30	263.9%	273.3%	50 - 150	Q1
Chlorpyrifos	0.014	0.355	0.360	0.400	1.5%	< 30	85.2%	86.5%	50 - 150	
Clofentezine	0.000	0.395	0.386	0.400	2.3%	< 30	98.7%	96.5%	50 - 150	
Cyfluthrin	0.000	4.841	4.179	2.000	14.7%	< 30	242.1%	209.0%	30 - 150	Q1
Cypermethrin	0.000	5.532	5.300	2.000	4.3%	< 30	276.6%	265.0%	50 - 150	Q1
Daminozide	0.000	0.058	0.073	2.000	23.1%	< 30	2.9%	3.6%	30 - 150	Q
Diazinon	0.000	0.512	0.493	0.400	3.8%	< 30	128.0%	123.2%	50 - 150	
Dichlorvos	0.000	2.569	2.524	2.000	1.8%	< 30	128.5%	126.2%	50 - 150	
Dimethoat	0.000	0.493	0.477	0.400	3.2%	< 30	123.1%	119.2%	50 - 150	
Ethoprophos	0.000	0.534	0.540	0.400	1.2%	< 30	133.4%	135.0%	50 - 150	
Etofenprox	0.000	4.730	3.522	0.800	29.3%	< 30	591.3%	440.3%	50 - 150	Q1
Etoxazol	0.000	0.668	0.639	0.400	4.4%	< 30	166.9%	159.8%	50 - 150	Q1
Fenoxycarb	0.000	0.562	0.664	0.400	16.7%	< 30	140.5%	166.0%	50 - 150	Q1
Fenpyroximat	0.000	1.573	1.582	0.800	0.6%	< 30	196.6%	197.7%	50 - 150	Q1
Flpronil	0.000	1.508	1.437	0.800	4.8%	< 30	188.5%	179.6%	50 - 150	Q1
Flonicamid	0.000	0.216	0.214	1.000	0.9%	< 30	21.6%	21.4%	50 - 150	Q
Fludioxonil	0.000	0.791	0.665	0.800	17.3%	< 30	98.6%	83.1%	50 - 150	
Hexythiazox	0.000	2.350	2.420	1.000	2.9%	< 30	235.0%	242.0%	50 - 150	Q1
Imaza il	0.000	0.436	0.437	0.400	0.2%	< 30	109.0%	109.2%	50 - 150	
Imidacoprid	0.000	0.623	0.634	0.800	1.8%	< 30	77.8%	79.2%	50 - 150	
Kresoxim-Methyl	0.000	1.423	1.524	0.800	6.8%	< 30	177.9%	190.5%	50 - 150	Q1
Malathion	0.000	0.564	0.568	0.400	0.6%	< 30	141.0%	141.9%	50 - 150	
Metaxalyl	0.000	0.460	0.466	0.400	1.2%	< 30	115.1%	116.5%	50 - 150	
Methiocarb	0.000	0.482	0.449	0.400	7.1%	< 30	120.5%	112.2%	50 - 150	
Methomyl	0.000	0.437	0.486	0.800	10.6%	< 30	54.6%	60.8%	50 - 150	
MGK 264	0.000	0.534	0.549	0.400	2.7%	< 30	133.6%	137.2%	50 - 150	
Mydobutani	0.000	0.488	0.478	0.400	2.0%	< 30	121.9%	119.5%	50 - 150	
Naled	0.000	1.271	1.242	1.000	2.3%	< 30	127.1%	124.2%	50 - 150	
Oxamyl	0.000	2.090	2.334	2.000	11.0%	< 30	104.5%	116.7%	50 - 150	
Padobutrazol	0.000	1.042	1.030	0.800	1.1%	< 30	130.3%	128.8%	50 - 150	
Parathion Methyl	0.000	1.095	1.087	0.800	0.7%	< 30	136.9%	135.9%	30 - 150	
Permethrin	0.000	0.959	0.822	0.400	15.4%	< 30	239.7%	205.5%	50 - 150	Q1
Phosmet	0.000	0.550	0.532	0.400	3.3%	< 30	137.5%	133.0%	50 - 150	
Piperonyl butoxide	0.000	3.058	2.848	2.000	7.1%	< 30	152.9%	142.4%	50 - 150	Q1
Prallethrin	0.000	0.486	0.459	0.400	5.6%	< 30	121.4%	114.8%	50 - 150	
Propiconazole	0.000	1.342	1.322	0.800	1.5%	< 30	167.7%	165.3%	50 - 150	Q1
Propoxur	0.000	0.534	0.513	0.400	4.0%	< 30	133.6%	128.3%	50 - 150	
Pyrethrins	0.031	0.492	0.488	0.413	0.8%	< 30	111.6%	110.7%	50 - 150	
Pyridaben	0.000	0.616	0.747	0.400	19.3%	< 30	154.0%	186.9%	50 - 150	Q1
Spinosad	0.000	0.693	0.692	0.388	0.0%	< 30	178.5%	178.5%	50 - 150	Q1
Spiromesfen	0.000	0.482	0.494	0.400	2.4%	< 30	120.6%	123.5%	50 - 150	
Spirotetramat	0.000	0.447	0.452	0.400	0.9%	< 30	111.8%	112.9%	50 - 150	
Sproxamine	0.000	0.915	0.912	0.800	0.3%	< 30	114.4%	114.0%	50 - 150	
Tebuconazol	0.000	1.198	1.196	0.800	0.2%	< 30	149.8%	149.6%	50 - 150	
Thiadoprid	0.000	0.462	0.465	0.400	0.5%	< 30	115.6%	116.2%	50 - 150	
Thiamethoxam	0.000	0.094	0.104	0.400	10.3%	< 30	23.4%	26.0%	50 - 150	Q
Trifloxystrobin	0.000	0.850	0.846	0.400	0.4%	< 30	212.4%	211.6%	50 - 150	Q1



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Laboratory Quality Control Results

Residual Solvents		Batch ID 2200164							
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		1450	1400	µg/g	103.6	70 - 130	
Isobutane	ND	< 200		1850	1780	µg/g	103.9	70 - 130	
Butane	ND	< 200		1870	1790	µg/g	104.5	70 - 130	
2,2-Dimethylpropane	ND	< 200		2300	2190	µg/g	105.0	70 - 130	
Methanol	ND	< 200		1590	1610	µg/g	98.6	70 - 130	
Ethylene Oxide	ND	< 30		139	141	µg/g	98.6	70 - 130	
2-Methylbutane	ND	< 200		1660	1630	µg/g	101.8	70 - 130	
Pentane	ND	< 200		1650	1610	µg/g	102.5	70 - 130	
Ethanol	ND	< 200		1760	1630	µg/g	108.0	70 - 130	
Ethyl Ether	ND	< 200		1590	1610	µg/g	98.8	70 - 130	
2,2-Dimethylbutane	ND	< 30		167	165	µg/g	101.2	70 - 130	
Acetone	ND	< 200		1670	1610	µg/g	103.7	70 - 130	
2-Propanol	ND	< 200		1700	1610	µg/g	105.6	70 - 130	
Acetonitrile	ND	< 100		418	498	µg/g	83.3	70 - 130	
2,3-Dimethylbutane	ND	< 30		139	162	µg/g	85.8	70 - 130	
Dichloromethane	ND	< 60		456	498	µg/g	91.6	70 - 130	
2-Methylpentane	ND	< 30		155	167	µg/g	92.8	70 - 130	
3-Methylpentane	ND	< 30		181	173	µg/g	101.1	70 - 130	
Hexane	ND	< 30		172	164	µg/g	104.9	70 - 130	
Ethyl acetate	ND	< 200		1950	1620	µg/g	120.4	70 - 130	
2-Butanol	ND	< 200		1800	1600	µg/g	112.5	70 - 130	
Tetrahydrofuran	ND	< 100		547	500	µg/g	109.4	70 - 130	
Cyclohexane	ND	< 200		1780	1610	µg/g	110.6	70 - 130	
Benzene	ND	< 1		6.66	5.62	µg/g	118.5	70 - 130	
Isopropyl Acetate	ND	< 200		1800	1610	µg/g	111.8	70 - 130	
Heptane	ND	< 200		1650	1610	µg/g	102.5	70 - 130	
1,4-Dioxane	ND	< 100		550	500	µg/g	109.6	70 - 130	
2-Ethoxyethanol	ND	< 30		199	164	µg/g	121.3	70 - 130	
Ethylene Glycol	ND	< 200		609	500	µg/g	121.8	70 - 130	
Toluene	ND	< 200		530	488	µg/g	108.6	70 - 130	
Ethyl benzene	ND	< 200		984	960	µg/g	102.0	70 - 130	
m,p-Xylene	ND	< 200		1050	990	µg/g	106.1	70 - 130	
o-Xylene	ND	< 200		1020	970	µg/g	105.1	70 - 130	
Cumene	ND	< 30		184	179	µg/g	102.8	70 - 130	
1,2-Dichloroethane	ND	< 1		1.05	1	µg/g	105.0	70 - 130	
Chloroform	ND	< 1		1.01	1	µg/g	101.0	70 - 130	
Trichloroethylene	ND	< 1		0.971	1	µg/g	97.1	70 - 130	
Ethylene Oxide	ND	< 1		1.07	1	µg/g	107.0	70 - 130	
Dichloromethane	ND	< 1		0.941	1	µg/g	94.1	70 - 130	
Benzene	ND	< 1		1.02	1	µg/g	102.0	70 - 130	



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QC - Sample Duplicate Sample ID 21-015116-0003

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	
Acetonitrile	ND	ND	100	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	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	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	
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	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	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	
Ethyl benzene	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	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Tetrachloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Benzene	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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Terpenes Quality Control Results

Method Reference: EP/5035				Batch D: 220180					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		519	500	µg/g	104%	70 - 130	
Camphene	<LOQ	< 200		523	500	µg/g	105%	70 - 130	
Sabinene	<LOQ	< 200		505	500	µg/g	101%	70 - 130	
b-Pinene	<LOQ	< 200		620	500	µg/g	124%	70 - 130	
b-Myrcene	<LOQ	< 200		438	500	µg/g	88%	70 - 130	
a-phellandrene	<LOQ	< 200		454	500	µg/g	91%	70 - 130	
d-3-Caene	<LOQ	< 200		556	500	µg/g	111%	70 - 130	
a-Terpinene	<LOQ	< 200		491	500	µg/g	98%	70 - 130	
p-Cymene	<LOQ	< 200		454	500	µg/g	91%	70 - 130	
D-Limonene	<LOQ	< 200		506	500	µg/g	101%	70 - 130	
Eucalyptol	<LOQ	< 200		534	500	µg/g	107%	70 - 130	
b-α-Cimene	<LOQ	< 67		144	167	µg/g	86%	70 - 130	
b-trans-Cimene	<LOQ	< 133		317	333	µg/g	95%	70 - 130	
g-Terpinene	<LOQ	< 200		508	500	µg/g	102%	70 - 130	
Sabinene Hydrate	<LOQ	< 200		490	500	µg/g	98%	70 - 130	
Terpinolene	<LOQ	< 200		483	500	µg/g	97%	70 - 130	
D-Fenchone	<LOQ	< 200		548	500	µg/g	110%	70 - 130	
Linalool	<LOQ	< 200		479	500	µg/g	96%	70 - 130	
Fenchol	<LOQ	< 200		538	500	µg/g	108%	70 - 130	
Camphor	<LOQ	< 200		519	500	µg/g	104%	70 - 130	
Isopuleg	<LOQ	< 200		423	500	µg/g	85%	70 - 130	
Isborneol	<LOQ	< 200		525	500	µg/g	105%	70 - 130	
Borneol	<LOQ	< 200		573	500	µg/g	115%	70 - 130	
DL-Menthol	<LOQ	< 200		538	500	µg/g	108%	70 - 130	
Terpineol	<LOQ	< 200		501	500	µg/g	100%	70 - 130	
Nerol	<LOQ	< 200		456	500	µg/g	91%	70 - 130	
Pulegone	<LOQ	< 200		517	500	µg/g	103%	70 - 130	
Geraniol	<LOQ	< 200		415	500	µg/g	83%	70 - 130	
Geranyl Acetate	<LOQ	< 200		477	500	µg/g	95%	70 - 130	
α-Cedrene	<LOQ	< 200		567	500	µg/g	113%	70 - 130	
b-Caryophyllene	<LOQ	< 200		574	500	µg/g	115%	70 - 130	
α-Humulene	<LOQ	< 200		588	500	µg/g	118%	70 - 130	
Valenene	<LOQ	< 200		486	500	µg/g	97%	70 - 130	
cis-Nerolidol	<LOQ	< 200		521	500	µg/g	104%	70 - 130	
α-Farnesene	<LOQ	< 200		535	500	µg/g	107%	70 - 130	
trans-Nerolidol	<LOQ	< 200		558	500	µg/g	112%	70 - 130	
Caryophyllene Oxide	<LOQ	< 200		506	500	µg/g	101%	70 - 130	
Guaiol	<LOQ	< 200		617	500	µg/g	123%	70 - 130	
Cedrol	<LOQ	< 200		575	500	µg/g	115%	70 - 130	
α-Bisabolol	<LOQ	< 200		552	500	µg/g	110%	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: 220180					
Sample/Sample Duplicate		Sample D: 21-015117-0003					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	196	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	196	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	196	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	196	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	196	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	196	µg/g	0%	< 20	
d-3-Caene	<LOQ	<LOQ	196	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	196	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	196	µg/g	0%	< 20	
D-Limonene	<LOQ	<LOQ	196	µg/g	0%	< 20	
Eucalyptol	<LOQ	<LOQ	196	µg/g	0%	< 20	
b-cis-OCimene	<LOQ	<LOQ	65.2	µg/g	0%	< 20	
b-trans-OCimene	<LOQ	<LOQ	130	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	196	µg/g	0%	< 20	
Sabinene Hydrate	<LOQ	<LOQ	196	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	196	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	196	µg/g	0%	< 20	
Linalool	<LOQ	<LOQ	196	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	196	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	196	µg/g	0%	< 20	
Isopuleg	<LOQ	<LOQ	196	µg/g	0%	< 20	
Isborneol	<LOQ	<LOQ	196	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	196	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	196	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	196	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	196	µg/g	0%	< 20	
Rulegone	<LOQ	<LOQ	196	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	196	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	196	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	196	µg/g	0%	< 20	
b-Caryophyllene	<LOQ	<LOQ	196	µg/g	0%	< 20	
a-Humulene	<LOQ	<LOQ	196	µg/g	0%	< 20	
Valenene	<LOQ	<LOQ	196	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	196	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	196	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	196	µg/g	0%	< 20	
Caryophyllene_Oxide	<LOQ	<LOQ	196	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	196	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	196	µg/g	0%	< 20	
a-Bisabdiol	<LOQ	<LOQ	196	µg/g	0%	< 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.