

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU TN.O.CBGCBD.FS50

BATCH # DJ55

PRODUCT NAME Org. Tincture - F.S. CBG/CBD - 50mg

SERVING SIZE 1 mL

LABORATORY: Columbia Laboratories

OREGON ACCREDITATION: OR100028

LOQ: Limit Of Quantitation

LOD: Limit Of Detection

1 g = 10⁻³ kg = 10³ mg = 10⁶

µg 1 mg/kg = 1 ppm = 1000 ppb

POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	31.2 mg/serving	33.5 mg/g	3.35 %
Total THC (d9-THC, THCA)	1.34 mg/serving	1.44 mg/g	0.144 %
Cannabigerol (CBG)	27.2 mg/serving	29.2 mg/g	2.92 %
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Cannabichromene (CBC)	1.97 mg/serving	2.12 mg/g	0.212 %
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	1.34 mg/serving	1.44 mg/g	0.144 %
Delta-8-THC (d8-THC)	<LOQ mg/serving	<LOQ mg/g	<LOQ %

HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	<LOQ µg/serving	<LOQ µg/g	10 µg/day ^[1]
Cadmium	<LOQ µg/serving	<LOQ µg/g	4.1 µg/day ^[1]
Lead	<LOQ µg/serving	<LOQ µg/g	3.5 µg/day ^[2]
Mercury	<LOQ µg/serving	<LOQ µg/g	2 µg/day ^[1]

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

RESIDUAL SOLVENTS	Results	REGULATORY ACTION LEVEL
Ethanol	<LOQ	
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
Water Activity	Pass

TERPENES	% OF SAMPLE
Farnesene	27.4 %
β-Caryophyllene	29.9 %
α-Bisabolol	18.9 %
Humulene	14.3 %



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: 21-013569/D002.R000
Report Date: 11/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/17/21 14:45

Customer: Etz Hayim Holdings
Product identity: FORM_DJ55-TN.O.CBGCBD.FS50
Client/Metric ID: .
Laboratory ID: 21-013569-0001

Summary

Potency:

Analyte per 1ml	Result	Limits	Units	Status	
CBC per 1ml [†]	1.97		mg/1ml		CBD Total per 1ml 31.2 mg/1ml
CBD per 1ml	31.2		mg/1ml		
CBDV per 1ml [†]	0.278		mg/1ml		THC-Total per 1ml 1.34 mg/1ml
CBE per 1ml [†]	0.403		mg/1ml		
CBG per 1ml [†]	27.2		mg/1ml		(Reported in milligrams per serving)
CBL per 1ml [†]	0.0792		mg/1ml		
CBT per 1ml [†]	0.741		mg/1ml		
Δ9 THC per 1ml	1.34		mg/1ml		



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Received: 11/17/21 14:45



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

Product identity: FORM_DJ55-TN.O.CBGCBD.FS50

Client/Metric ID: .

Sample Date:

Laboratory ID: 21-013569-0001

Evidence of Cooling: No

Temp: 17.3 °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: 2110535	Analyze: 11/19/21 11:45:00 P
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1ml [†]	1.97		mg/1ml	0.0308	
CBC-A per 1ml [†]	< LOQ		mg/1ml	0.0331	
CBC-Total per 1ml [†]	1.97		mg/1ml	0.0577	
CBD per 1ml	31.2		mg/1ml	0.308	
CBD-A per 1ml	< LOQ		mg/1ml	0.0331	
CBD-Total per 1ml	31.2		mg/1ml	0.335	
CBDV per 1ml [†]	0.278		mg/1ml	0.0308	
CBDV-A per 1ml [†]	< LOQ		mg/1ml	0.0331	
CBDV-Total per 1ml [†]	0.278		mg/1ml	0.0574	
CBE per 1ml [†]	0.403		mg/1ml	0.0308	
CBG per 1ml [†]	27.2		mg/1ml	0.308	
CBG-A per 1ml [†]	< LOQ		mg/1ml	0.0331	
CBG-Total per 1ml [†]	27.2		mg/1ml	0.334	
CBL per 1ml [†]	0.0792		mg/1ml	0.0308	
CBL-A per 1ml [†]	< LOQ		mg/1ml	0.0331	
CBL-Total per 1ml [†]	0.0792		mg/1ml	0.0577	
CBN per 1ml	< LOQ		mg/1ml	0.0331	
CBT per 1ml [†]	0.741		mg/1ml	0.0308	
Δ8-THCV per 1ml [†]	< LOQ		mg/1ml	0.0331	
Δ8-THC per 1ml [†]	< LOQ		mg/1ml	0.0331	
Δ9-THC per 1ml	1.34		mg/1ml	0.0308	
exo-THC per 1ml [†]	< LOQ		mg/1ml	0.0331	
THC-A per 1ml	< LOQ		mg/1ml	0.0331	
THC-Total per 1ml	1.34		mg/1ml	0.0577	
THCV per 1ml [†]	< LOQ		mg/1ml	0.0331	
THCV-A per 1ml [†]	< LOQ		mg/1ml	0.0331	
THCV-Total per 1ml [†]	< LOQ		mg/1ml	0.0621	
Total Cannabinoids per 1ml	63.2		mg/1ml		



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Received: 11/17/21 14:45

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

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
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503-254-1794



Report Number: 21-013569/D002.R000
Report Date: 11/23/2021
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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-DJ55-TN.O.CBGCBD.FS50		11/1	1422			X										kinetic			Laz Nat Discount
FORM-DJ55-TN.O.CBGCBD.FS50		11/1	1422								X	X				kinetic			potency first
FORM-DJ55-TN.O.CBGCBD.FS50		11/1	1422	X			X		X				X			kinetic			

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
							Sample Condition
							Temperature: 17.3°C
							Shipped Via: <i>Client</i>
							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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Report Number: 21-013569/D002.R000
Report Date: 11/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/17/21 14:45

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2110535**

Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.0100	0.01	%	100	85.0 - 115	Acceptable	
CBDV	0.0110	0.01	%	110	85.0 - 115	Acceptable	
CBE	0.00987	0.01	%	98.7	85.0 - 115	Acceptable	
CBDA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBGA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBG	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBD	0.00985	0.01	%	98.5	85.0 - 115	Acceptable	
THCV	0.0101	0.01	%	101	85.0 - 115	Acceptable	
d8THCV	0.00950	0.01	%	95.0	85.0 - 115	Acceptable	
THCVA	0.00985	0.01	%	98.5	85.0 - 115	Acceptable	
CBN	0.00993	0.01	%	99.3	85.0 - 115	Acceptable	
exo-THC	0.00908	0.01	%	90.8	85.0 - 115	Acceptable	
d9THC	0.00961	0.01	%	96.1	85.0 - 115	Acceptable	
d8THC	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBL	0.00981	0.01	%	98.1	85.0 - 115	Acceptable	
CBC	0.0105	0.01	%	105	85.0 - 115	Acceptable	
THCA	0.00984	0.01	%	98.4	85.0 - 115	Acceptable	
CBCA	0.0104	0.01	%	104	85.0 - 115	Acceptable	
CBLA	0.00986	0.01	%	98.6	85.0 - 115	Acceptable	
CBT	0.0113	0.01	%	113	85.0 - 115	Acceptable	

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

Units of Measure:

% - Percent



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Report Number: 21-013569/D002.R000
Report Date: 11/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/17/21 14:45

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

Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2110535								
Sample Duplicate								
Sample D 21-010754-0004								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.00675	0.00689	0.003	%	2.04	< 20	Acceptable	
CBE	0.00815	0.00830	0.003	%	1.82	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	2.17	2.19	0.003	%	0.617	< 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	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.003	%	NA	< 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	<LOQ	<LOQ	0.003	%	NA	< 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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Portland, OR 97230
503-254-1794



Report Number: 21-013569/D002.R000
Report Date: 11/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/17/21 14:45

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.



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Portland, OR 97230
503-254-1794



Report Number: 21-013569/D005.R000
Report Date: 12/02/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/17/21 14:45

Customer: Etz Hayim Holdings
Product identity: FORM_DJ55-TN.O.CBGCBD.FS50
Client/Metric ID: .
Laboratory ID: 21-013569-0002

Summary

Microbiology:

Less than LOQ for all analytes.



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 Portland, OR 97230
 503-254-1794



Report Number: 21-013569/D005.R000
Report Date: 12/02/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/17/21 14:45

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

Product identity: FORM_DJ55-TN.O.CBGCBD.FS50

Client/Metric ID: .

Sample Date:

Laboratory ID: 21-013569-0002

Evidence of Cooling: No

Temp: 17.3 °C

Relinquished by: Client

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2110589	11/26/21	AOAC 991.14 (Petrifilm)	X, I	
Total Coliforms	< LOQ		cfu/g	10	2110589	11/26/21	AOAC 991.14 (Petrifilm)	X, I	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2110590	11/27/21	AOAC 2014.05 (RAPID)	X, I	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2110590	11/27/21	AOAC 2014.05 (RAPID)	X, I	



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Report Number: 21-013569/D005.R000
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Received: 11/17/21 14:45

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

I: Insufficient sample received to meet method requirements.

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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Portland, OR 97230
503-254-1794



Report Number: 21-013569/D005.R000
Report Date: 12/02/2021
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Purchase Order:
Received: 11/17/21 14:45



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-DJ55-TN.O.CBGCBD.FS50		11/1	1422			X										kinetic			Laz Nat Discount
FORM-DJ55-TN.O.CBGCBD.FS50		11/1	1422								X	X				kinetic			potency first
FORM-DJ55-TN.O.CBGCBD.FS50		11/1	1422	X			X		X				X			kinetic			

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
							Sample Condition
							Temperature: 17.3°C
							Shipped Via: <i>Client</i>
							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.pixislab.com Page 1 of 2



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Report Number: 21-013569/D005.R000
Report Date: 12/02/2021
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Purchase Order:
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Explanation of QC Flag Comments:

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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.



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Portland, OR 97230
503-254-1794



Report Number: 21-013569/D004.R000
Report Date: 12/02/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/17/21 14:45

Customer: Etz Hayim Holdings
Product identity: FORM_DJ55-TN.O.CBGCBD.FS50
Client/Metric ID: .
Laboratory ID: 21-013569-0003

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
β -Caryophyllene [†]	0.0796	29.92%	farnesene [†]	0.0728	27.37%
α -Bisabolol [†]	0.0504	18.95%	Humulene [†]	0.0380	14.29%
β -Myrcene [†]	0.0248	9.32%	Total Terpenes[†]	0.266	100.00%

Metals:

Less than LOQ for all analytes.



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Report Number: 21-013569/D004.R000
Report Date: 12/02/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/17/21 14:45



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

Product identity: FORM_DJ55-TN.O.CBGCBD.FS50

Client/Metric ID: .

Sample Date:

Laboratory ID: 21-013569-0003

Evidence of Cooling: No

Temp: 17.3 °C

Relinquished by: Client

Sample Results

Solvents		Method Residual Solvents by GC/MS				Units µg/g	Batch 2110633	Analyze 11/29/21 09:46 AM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		Ethanol ¹	< LOQ		200		
Ethyl acetate	< LOQ	5000	200	pass		Ethyl benzene	< LOQ		200		
Ethyl ether	< LOQ	5000	200	pass		Ethylene glycol	< LOQ	620	200	pass	
Ethylene oxide	< LOQ	50.0	20.0	pass		Hexanes (sum)	< LOQ	290	150	pass	
Isopropyl acetate	< LOQ	5000	200	pass		Isopropylbenzene (Cumene)	< LOQ	70.0	30.0	pass	
m,p-Xylene	< LOQ		200			Methanol	< LOQ	3000	200	pass	
Methylene chloride	< LOQ	600	60.0	pass		Methylpropane (Isobutane)	< LOQ		200		
n-Butane	< LOQ		200			n-Heptane	< LOQ	5000	200	pass	
n-Hexane	< LOQ		30.0			n-Pentane	< LOQ		200		
o-Xylene	< LOQ		200			Pentanes (sum)	< LOQ	5000	600	pass	
Propane	< LOQ	5000	200	pass		Tetrahydrofuran	< LOQ	720	100	pass	
Toluene	< LOQ	890	100	pass		Total Xylenes	< LOQ		400		
Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass							



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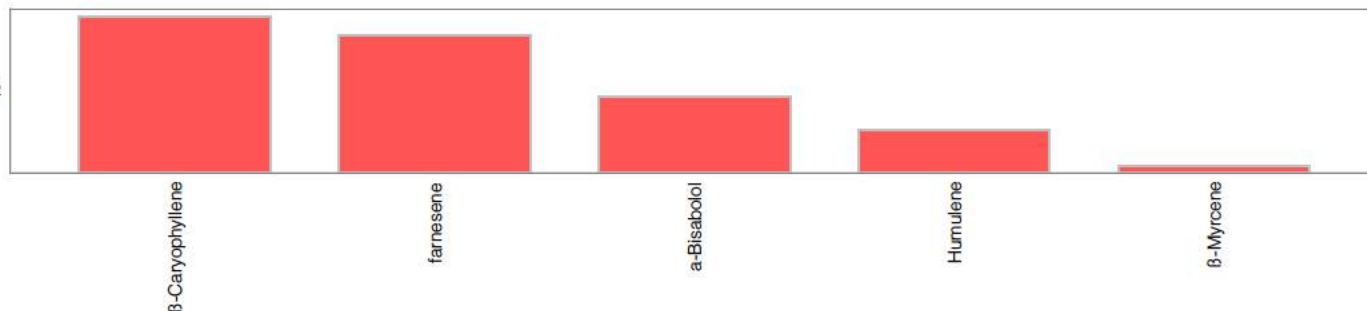


Report Number: 21-013569/D004.R000
Report Date: 12/02/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/17/21 14:45

Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2110612 Analyze 11/24/21 04:14 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		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		Paclbutrazole	< 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 2110777	Analyze 12/01/21 07:26 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Caryophyllene [†]	0.0796	0.019	29.9248%		farnesene [†]	0.0728	0.019	27.3684%	
α-Bisabolol [†]	0.0504	0.019	18.9474%		Humulene [†]	0.0380	0.019	14.2857%	
β-Myrcene [†]	0.0248	0.019	9.3233%		(-)-Guaiol [†]	< LOQ	0.019	0.00%	
(-)-caryophyllene oxide [†]	< LOQ	0.019	0.00%		(R)-(+)-Limonene [†]	< LOQ	0.019	0.00%	
Linalool [†]	< LOQ	0.019	0.00%		Geraniol [†]	< LOQ	0.019	0.00%	
(-)-α-Terpineol [†]	< LOQ	0.019	0.00%		γ-Terpinene [†]	< LOQ	0.019	0.00%	
p-Cymene [†]	< LOQ	0.019	0.00%		Sabinene [†]	< LOQ	0.019	0.00%	
(±)-trans-Nerolidol [†]	< LOQ	0.019	0.00%		α-Terpinene [†]	< LOQ	0.019	0.00%	
nerol [†]	< LOQ	0.019	0.00%		cis-β-Ocimene [†]	< LOQ	0.006	0.00%	
Terpinolene [†]	< LOQ	0.019	0.00%		Geranyl acetate [†]	< LOQ	0.019	0.00%	
(+)-fenchol [†]	< LOQ	0.019	0.00%		Sabinene hydrate [†]	< LOQ	0.019	0.00%	
(+)-Borneol [†]	< LOQ	0.019	0.00%		(+)-Pulegone [†]	< LOQ	0.019	0.00%	
valencene [†]	< LOQ	0.019	0.00%		α-pinene [†]	< LOQ	0.019	0.00%	
(-)-β-Pinene [†]	< LOQ	0.019	0.00%		(±)-Camphor [†]	< LOQ	0.019	0.00%	
(±)-fenchone [†]	< LOQ	0.019	0.00%		(-)-Isopulegol [†]	< LOQ	0.019	0.00%	
(+)-Cedrol [†]	< LOQ	0.019	0.00%		(±)-cis-Nerolidol [†]	< LOQ	0.019	0.00%	
α-cedrene [†]	< LOQ	0.019	0.00%		α-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%		Isoborneol [†]	< LOQ	0.019	0.00%	
Menthol [†]	< LOQ	0.019	0.00%		trans-β-Ocimene [†]	< LOQ	0.013	0.00%	
Total Terpenes	0.266								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0475	2110712	11/30/21	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	0.0475	2110712	11/30/21	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.500	mg/kg	0.0475	2110712	11/30/21	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.0237	2110712	11/30/21	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, 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



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

Cannabis Chain of Custody Record

ORELAP ID: OR100028

Company Information		Analysis Requested											Purchase Order Information					
Comp:	[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	Comments/Metric ID	Purchase Order Number:
Cont:	[Redacted]																	Project Number:
Addr:	[Redacted]																	Project Name:
Email:	[Redacted]																	<input type="checkbox"/> Report Instructions:
Phone:	[Redacted]																	<input type="checkbox"/> Send to State - METRC
Processor's License:	[Redacted]	<input checked="" type="checkbox"/> Email Final Results:																
																		<input type="checkbox"/> Fax Final Results
																		<input type="checkbox"/> Cash/Check/CC/Net 30
																		Other:
Field ID	Date/Time Collected																	
FORM-DJ55-TN.O.CBGCBD.FS50	11/1 1422			X										kinetic				Laz Nat Discount
FORM-DJ55-TN.O.CBGCBD.FS50	11/1 1422							X	X					kinetic				potency first
FORM-DJ55-TN.O.CBGCBD.FS50	11/1 1422	X			X		X			X				kinetic				

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	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: 17.3°C
							Shipped Via: <i>Client</i>
							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 www.pixislab.com
 Effective 01/31/2019 Revised 01/31/2019 Page 1 of 2



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Report Number: 21-013569/D004.R000
Report Date: 12/02/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/17/21 14:45



Revision: 2 Document ID: 3120
Legacy ID: CFL-C21Effective:

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg							Batch ID: 2110612	
Matrix Spike/Matrix Spike Duplicate Recoveries										
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acceptate	0.000	0.818	0.831	1.000	1.6%	< 30	81.8%	83.1%	50 - 150	
Acetaminophen	0.000	2.015	1.873	4.000	7.3%	< 30	50.4%	46.8%	50 - 150	Q
Acetamiprid	0.012	0.371	0.374	0.400	0.8%	< 30	89.9%	90.6%	50 - 150	
Aldicarb	0.000	1.004	0.719	0.800	33.0%	< 30	125.5%	89.9%	50 - 150	R
Abamectin	0.000	1.108	1.088	1.000	1.8%	< 30	110.8%	108.8%	50 - 150	
Azoxystrobin	0.000	0.368	0.390	0.400	5.9%	< 30	91.9%	97.5%	50 - 150	
Bifenazate	0.000	0.419	0.429	0.400	2.3%	< 30	104.8%	107.2%	50 - 150	
Bifenthrin	0.015	0.401	0.341	0.400	17.0%	< 30	96.4%	81.3%	50 - 150	
Boscalid	0.000	0.753	0.744	0.800	1.3%	< 30	94.2%	93.0%	50 - 150	
Carbaryl	0.000	0.357	0.352	0.400	1.4%	< 30	89.3%	88.1%	50 - 150	
Carbofuran	0.000	0.384	0.389	0.400	1.1%	< 30	96.1%	97.2%	50 - 150	
Chlorantraniliprol	0.000	0.371	0.363	0.400	2.2%	< 30	92.7%	90.7%	50 - 150	
Chlorfenapyr	0.000	1.736	1.880	2.000	8.0%	< 30	86.8%	94.0%	50 - 150	
Chlorpyrifos	0.037	0.433	0.434	0.400	0.3%	< 30	99.0%	99.3%	50 - 150	
Clofentezine	0.033	0.401	0.395	0.400	1.7%	< 30	92.2%	90.6%	50 - 150	
Cyfluthrin	0.000	1.740	1.822	2.000	4.6%	< 30	87.0%	91.1%	30 - 150	
Cypermethrin	0.000	1.687	1.595	2.000	5.6%	< 30	84.4%	79.7%	50 - 150	
Daminozide	0.000	2.525	2.488	2.000	1.5%	< 30	126.3%	124.4%	30 - 150	
Diazinon	0.000	0.403	0.397	0.400	1.5%	< 30	100.7%	99.2%	50 - 150	
Dichlorvos	0.000	1.869	1.920	2.000	2.7%	< 30	93.4%	96.0%	50 - 150	
Dimethoat	0.000	0.408	0.405	0.400	0.7%	< 30	102.0%	101.4%	50 - 150	
Ethoprophos	0.000	0.381	0.377	0.400	1.1%	< 30	95.2%	94.2%	50 - 150	
Etofenprox	0.000	0.635	0.568	0.800	11.1%	< 30	79.3%	70.9%	50 - 150	
Etoxazol	0.000	0.347	0.302	0.400	13.8%	< 30	86.6%	75.4%	50 - 150	
Fenoxycarb	0.000	0.382	0.386	0.400	1.2%	< 30	95.4%	96.5%	50 - 150	
Fenpyroximat	0.000	0.878	0.853	0.800	2.9%	< 30	109.7%	106.7%	50 - 150	
Fipronil	0.000	0.624	0.610	0.800	2.3%	< 30	78.0%	76.2%	50 - 150	
Fonicamid	0.000	0.990	0.970	1.000	2.0%	< 30	99.0%	97.0%	50 - 150	
Fludioxonil	0.000	0.995	1.027	0.800	3.2%	< 30	124.3%	128.4%	50 - 150	
Hexythiazox	0.000	0.780	0.663	1.000	16.3%	< 30	78.0%	66.3%	50 - 150	
Imazalil	0.000	0.357	0.365	0.400	2.3%	< 30	89.3%	91.4%	50 - 150	
Imidacloprid	0.000	0.817	0.798	0.800	2.3%	< 30	102.1%	99.7%	50 - 150	
Kresoxim-Methyl	0.000	0.782	0.771	0.800	1.4%	< 30	97.7%	96.4%	50 - 150	
Malathion	0.000	0.367	0.378	0.400	3.0%	< 30	91.8%	94.6%	50 - 150	
Metaxyl	0.000	0.414	0.411	0.400	0.7%	< 30	103.6%	102.8%	50 - 150	
Methiocarb	0.000	0.397	0.366	0.400	8.1%	< 30	99.2%	91.4%	50 - 150	
Methomyl	0.000	0.817	0.780	0.800	4.6%	< 30	102.1%	97.6%	50 - 150	
MKG 264	0.000	0.333	0.302	0.400	9.7%	< 30	83.2%	75.5%	50 - 150	
Myclobutanil	0.000	0.341	0.371	0.400	8.4%	< 30	85.2%	92.6%	50 - 150	
Naled	0.000	0.809	0.847	1.000	4.7%	< 30	80.9%	84.7%	50 - 150	
Oxamyl	0.000	1.978	1.928	2.000	2.6%	< 30	98.9%	96.4%	50 - 150	
Paclobutrazol	0.000	0.711	0.727	0.800	2.3%	< 30	88.8%	90.9%	50 - 150	
Parathion Methyl	0.000	0.373	0.486	0.800	26.3%	< 30	46.6%	60.7%	30 - 150	
Permethrin	0.000	0.281	0.245	0.400	14.0%	< 30	70.3%	61.2%	50 - 150	
Phosmet	0.000	0.342	0.336	0.400	1.9%	< 30	85.6%	84.0%	50 - 150	
Piperonyl butoxide	0.000	2.052	1.933	2.000	6.0%	< 30	102.6%	96.6%	50 - 150	
Prallethrin	0.000	0.632	0.594	0.400	6.1%	< 30	157.9%	148.6%	50 - 150	Q1
Propiconazole	0.000	0.798	0.730	0.800	9.0%	< 30	99.8%	91.2%	50 - 150	
Propoxur	0.000	0.400	0.349	0.400	13.4%	< 30	99.9%	87.3%	50 - 150	
Pyrethrins	0.000	0.605	0.572	0.413	5.5%	< 30	146.4%	138.6%	50 - 150	
Pyridaben	0.000	0.353	0.359	0.400	1.6%	< 30	88.3%	89.7%	50 - 150	
Spinosad	0.000	0.448	0.465	0.388	3.7%	< 30	115.5%	119.9%	50 - 150	
Spiromesifen	0.000	0.437	0.435	0.400	0.3%	< 30	109.2%	108.9%	50 - 150	
Spirotetramat	0.000	0.536	0.507	0.400	5.6%	< 30	134.0%	126.7%	50 - 150	
Spiroxamine	0.000	0.880	0.848	0.800	3.7%	< 30	110.1%	106.0%	50 - 150	
Tebuconazol	0.000	0.749	0.723	0.800	3.6%	< 30	93.6%	90.4%	50 - 150	
Thiadoprid	0.000	0.420	0.381	0.400	9.9%	< 30	105.1%	95.2%	50 - 150	
Thiamethoxam	0.000	0.390	0.354	0.400	9.6%	< 30	97.5%	88.6%	50 - 150	
Trifloxystrobin	0.000	0.442	0.417	0.400	5.8%	< 30	110.5%	104.3%	50 - 150	



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Received: 11/17/21 14:45



Revision: 2 Document ID: 3120
 Legacy ID: CFL-C21Effective:

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 2110612				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Accephate	0.003	< 0.250		1.051	1.000	105.1	72.9 - 135	
Accequinocyl	0.000	< 1.000		4.674	4.000	116.9	72.7 - 135	
Acetamiprid	0.000	< 0.100		0.442	0.400	110.5	73.0 - 136	
Aldicarb	0.000	< 0.200		0.749	0.800	93.7	74.8 - 139	
Abamectin	0.000	< 0.250		1.126	1.000	112.6	75.9 - 141	
Azoxystrobin	0.000	< 0.100		0.432	0.400	107.9	72.4 - 135	
Bifenazate	0.000	< 0.100		0.418	0.400	104.4	81.3 - 151	
Bifenthrin	0.000	< 0.100		0.451	0.400	112.9	72.4 - 134	
Boscalid	0.000	< 0.200		0.944	0.800	118.0	73.3 - 136	
Carbaryl	0.005	< 0.100		0.429	0.400	107.2	73.3 - 136	
Carbofuran	0.000	< 0.100		0.366	0.400	91.5	74.0 - 137	
Chlorantraniliprol	0.000	< 0.100		0.385	0.400	96.1	68.1 - 127	
Chlorfenapyr	0.000	< 0.500		2.189	2.000	109.5	73.3 - 136	
Chlorpyrifos	0.012	< 0.100		0.428	0.400	107.1	71.2 - 132	
Clofentezine	0.000	< 0.100		0.417	0.400	104.4	71.4 - 133	
Cyfluthrin	0.000	< 0.500		2.375	2.000	118.7	74.5 - 138	
Cypermethrin	0.000	< 0.500		2.114	2.000	105.7	73.4 - 136	
Daminozide	0.258	< 0.500		2.267	2.000	113.3	72.4 - 135	
Diazinon	0.000	< 0.100		0.436	0.400	109.0	73.3 - 136	
Dichlorvos	0.000	< 0.500		2.248	2.000	112.4	71.2 - 132	
Dimethoat	0.000	< 0.100		0.434	0.400	108.5	72.6 - 135	
Ethoprophos	0.000	< 0.100		0.440	0.400	110.0	71.5 - 133	
Etofenprox	0.000	< 0.200		1.039	0.800	129.8	73.9 - 137	
Etoxazol	0.000	< 0.100		0.391	0.400	97.9	73.3 - 136	
Fenoxycarb	0.000	< 0.100		0.421	0.400	105.3	72.3 - 134	
Fenpyroximat	0.000	< 0.200		0.887	0.800	110.9	73.4 - 136	
Fipronil	0.000	< 0.200		0.868	0.800	108.5	74.5 - 138	
Fonicamid	0.000	< 0.250		1.128	1.000	112.8	73.3 - 136	
Fludioxonil	0.000	< 0.200		0.868	0.800	108.5	74.9 - 139	
Hexythiazox	0.000	< 0.250		1.045	1.000	104.5	71.2 - 132	
Imazali	0.000	< 0.100		0.415	0.400	103.7	74.7 - 139	
Imidacloprid	0.000	< 0.200		0.879	0.800	109.9	72.7 - 135	
Kresoxim-Methyl	0.000	< 0.200		0.835	0.800	104.3	72.6 - 135	
Malathion	0.000	< 0.100		0.456	0.400	114.0	72.5 - 135	
Metaxalyl	0.000	< 0.100		0.444	0.400	110.9	73.3 - 136	
Methiocarb	0.000	< 0.100		0.410	0.400	102.5	72.6 - 135	
Methomyl	0.000	< 0.200		0.846	0.800	105.7	72.0 - 134	
MKG 264	0.000	< 0.100		0.457	0.400	114.3	72.5 - 135	
Myclobutanil	0.000	< 0.100		0.422	0.400	105.5	73.0 - 135	
Naled	0.000	< 0.250		1.178	1.000	117.8	73.0 - 136	
Oxamyl	0.000	< 0.500		2.059	2.000	103.0	73.1 - 136	
Paclobutrazol	0.000	< 0.200		0.913	0.800	114.2	73.3 - 136	
Parathion Methyl	0.000	< 0.200		0.930	0.800	116.2	75.4 - 140	
Permethrin	0.000	< 0.100		0.429	0.400	107.2	72.7 - 135	
Phosmet	0.000	< 0.100		0.462	0.400	115.4	72.5 - 135	
Piperonyl butoxide	0.000	< 0.500		2.230	2.000	111.5	75.7 - 141	
Prallethrin	0.000	< 0.100		0.446	0.400	111.5	72.7 - 135	
Propiconazole	0.000	< 0.200		0.856	0.800	107.0	72.9 - 135	
Propoxur	0.004	< 0.100		0.454	0.400	113.5	72.2 - 134	
Pyrethrins	0.000	< 0.100		0.408	0.413	98.8	68.8 - 128	
Pyridaben	0.000	< 0.100		0.440	0.400	110.1	72.2 - 134	
Spinosad	0.000	< 0.100		0.437	0.388	112.7	75.0 - 139	
Spiromesifen	0.000	< 0.100		0.422	0.400	105.5	74.4 - 138	
Spirotetramat	0.000	< 0.100		0.432	0.400	108.0	73.2 - 136	
Spiroxamine	0.000	< 0.200		0.921	0.800	115.1	70.7 - 131	
Tebuconazol	0.000	< 0.200		0.899	0.800	112.4	72.9 - 135	
Thiadoprid	0.000	< 0.100		0.448	0.400	111.9	72.4 - 134	
Thiamethoxam	0.000	< 0.100		0.427	0.400	106.7	71.9 - 134	
Trifloxystrobin	0.000	< 0.100		0.438	0.400	109.4	72.5 - 135	



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Laboratory Quality Control Results							Batch ID: 2 0633		
Residual Solvents			Laboratory Control Sample						
Method Blank	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	200		000	9.8	µg/g	05.5	0	30
Isobutane	ND	200		280	260	µg/g	0.6	0	30
Butane	ND	200		300	260	µg/g	03.2	0	30
2,2-Dimethylpropane	ND	200		90	600	µg/g	9	0	30
Methanol	ND	200		650	6.0	µg/g	02.5	0	30
Ethylene Oxide	ND	0		06	95	µg/g	0.8	0	30
2-Methylbutane	ND	200		680	6.0	µg/g	0.3	0	30
Pentane	ND	200		620	6.0	µg/g	00.6	0	30
Ethanol	ND	200		6.0	6.0	µg/g	0.9	0	30
Ethyl Ether	ND	200		520	6.0	µg/g	9	0	30
2,2-Dimethylbutane	ND	0			6	µg/g	89.6	0	30
Acetone	ND	200		5.0	6.0	µg/g	93.8	0	30
2-Propanol	ND	200		5.0	6.0	µg/g	9.5	0	30
Acetonitrile	ND	00		0	8	µg/g	88.8	0	30
2,3-Dimethylbutane	ND	0		8	6	µg/g	08	0	30
Dichloromethane	ND	60		69	9	µg/g	95.5	0	30
2-Methylpentane	ND	0		68	65	µg/g	0.8	0	30
3-Methylpentane	ND	0		0	2	µg/g	98.8	0	30
Hexane	ND	0		5	6	µg/g	9.0	0	30
Ethyl acetate	ND	200		90	6.0	µg/g	92.5	0	30
2-Butanol	ND	200		0	6.0	µg/g	9.3	0	30
tetrahydrofuran	ND	00		8	83	µg/g	92.8	0	30
Cyclohexane	ND	200		0	6.0	µg/g	9.3	0	30
Benzene	ND			6	5.35	µg/g	88.8	0	30
Isopropyl Acetate	ND	200		6.0	620	µg/g	99	0	30
Heptane	ND	200		0	6.0	µg/g	9.3	0	30
Dioxane	ND	00		2	89	µg/g	8.3	0	30
2-Ethoxyethanol	ND	0		6	6	µg/g	88.0	0	30
Ethylene Glycol	ND	200		0	50	µg/g	85.3	0	30
toluene	ND	200		3.6	8	µg/g	8.8	0	30
Ethyl benzene	ND	200		6	96.8	µg/g	8.9	0	30
m,p Xylene	ND	200		88	9	µg/g	80	0	30
o Xylene	ND	200		9	98.2	µg/g	9.3	0	30
Cumene	ND	0		0	69	µg/g	6.9	0	30



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QC Sample Duplicate Sample ID: 21 013815 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 Methyl butane	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	
Aceton Trile	ND	ND	00	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 Methyl pentane	ND	ND	30	µg/g	0.0	20	Acceptable	
3 Methyl pentane	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	00	µg/g	0.0	20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	20	Acceptable	
Benzene	ND	ND	10	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	
Dioxane	ND	ND	00	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	

Abbreviations

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

Units of Measure:

µg/g Microgram per gram or ppm



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Terpenes Quality Control Results

Method Reference EPA 5035				Batch ID 2 0777					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	< OQ	< 200		373	500	µg/g	75%	70 - 30	
Camphene	< OQ	< 200		357	500	µg/g	71%	70 - 30	
Sabinene	< OQ	< 200		378	500	µg/g	76%	70 - 30	
b-Pinene	< OQ	< 200		472	500	µg/g	94%	70 - 30	
b-Myrcene	< OQ	< 200		383	500	µg/g	77%	70 - 30	
a-phellandrene	< OQ	< 200		36	500	µg/g	72%	70 - 30	
d-3-Carene	< OQ	< 200		382	500	µg/g	76%	70 - 30	
a-Terpinene	< OQ	< 200		399	500	µg/g	80%	70 - 30	
p-Cymene	< OQ	< 200		364	500	µg/g	73%	70 - 30	
D-imonene	< OQ	< 200		37	500	µg/g	74%	70 - 30	
α-calyptol	< OQ	< 200		363	500	µg/g	73%	70 - 30	
b-cis-Ocimene	< OQ	< 67		40	67	µg/g	84%	70 - 30	
b-trans-Ocimene	< OQ	< 33		258	333	µg/g	77%	70 - 30	
g-Terpinene	< OQ	< 200		40	500	µg/g	80%	70 - 30	
Sabinene Hydrate	< OQ	< 200		406	500	µg/g	81%	70 - 30	
Terpinolene	< OQ	< 200		386	500	µg/g	77%	70 - 30	
D-enchone	< OQ	< 200		380	500	µg/g	76%	70 - 30	
α-inalool	< OQ	< 200		47	500	µg/g	83%	70 - 30	
α-enchol	< OQ	< 200		409	500	µg/g	82%	70 - 30	
Camphor	< OQ	< 200		367	500	µg/g	73%	70 - 30	
α-pulego	< OQ	< 200		36	500	µg/g	72%	70 - 30	
α-soborneol	< OQ	< 200		373	500	µg/g	75%	70 - 30	
Borneol	< OQ	< 200		435	500	µg/g	87%	70 - 30	
D-Menthol	< OQ	< 200		366	500	µg/g	73%	70 - 30	
Terpineol	< OQ	< 200		42	500	µg/g	82%	70 - 30	
Nerol	< OQ	< 200		388	500	µg/g	78%	70 - 30	
Pulegone	< OQ	< 200		464	500	µg/g	93%	70 - 30	
Geraniol	< OQ	< 200		432	500	µg/g	86%	70 - 30	
Geranyl Acetate	< OQ	< 200		37	500	µg/g	74%	70 - 30	
α-Cedrene	< OQ	< 200		43	500	µg/g	83%	70 - 30	
b-Caryophyllene	< OQ	< 200		4	500	µg/g	82%	70 - 30	
α-Humulene	< OQ	< 200		439	500	µg/g	88%	70 - 30	
Valenene	< OQ	< 200		359	500	µg/g	72%	70 - 30	
cis-Nerolidol	< OQ	< 200		395	500	µg/g	79%	70 - 30	
α-arnesene	< OQ	< 200		400	500	µg/g	80%	70 - 30	
trans-Nerolidol	< OQ	< 200		457	500	µg/g	91%	70 - 30	
Caryophyllene Oxide	< OQ	< 200		359	500	µg/g	72%	70 - 30	
Guaiol	< OQ	< 200		480	500	µg/g	96%	70 - 30	
Cedrol	< OQ	< 200		47	500	µg/g	83%	70 - 30	
α-Bisabolol	< OQ	< 200		430	500	µg/g	86%	70 - 30	

Definitions

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



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Terpenes Quality Control Results

Method Reference EPA 5035		Batch ID 2 0777					
Sample/Sample Duplicate		Sample ID 21-013737-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	< OQ	< OQ	98	µg/g	0%	< 20	
Camphene	< OQ	< OQ	98	µg/g	0%	< 20	
Sabinene	< OQ	< OQ	98	µg/g	0%	< 20	
b-Pinene	< OQ	< OQ	98	µg/g	0%	< 20	
b-Myrcene	< OQ	< OQ	98	µg/g	0%	< 20	
a-phellandrene	< OQ	< OQ	98	µg/g	0%	< 20	
d-3-Carene	< OQ	< OQ	98	µg/g	0%	< 20	
a-Terpinene	43	4	98	µg/g	5%	< 20	
p-Cymene	< OQ	< OQ	98	µg/g	0%	< 20	
D- imonene	< OQ	< OQ	98	µg/g	0%	< 20	
linalyl ol	263	263	98	µg/g	0%	< 20	
b-cis-Ocimene	< OQ	< OQ	65.9	µg/g	0%	< 20	
b- trans-Ocimene	< OQ	< OQ	32	µg/g	0%	< 20	
g-Terpinene	662	64	98	µg/g	3%	< 20	
Sabinene Hydra e	< OQ	< OQ	98	µg/g	0%	< 20	
Terpinolene	< OQ	< OQ	98	µg/g	0%	< 20	
D- enchone	< OQ	< OQ	98	µg/g	0%	< 20	
linalool	< OQ	< OQ	98	µg/g	0%	< 20	
enchol	< OQ	< OQ	98	µg/g	0%	< 20	
Camphor	94400	9 400	98	µg/g	3%	< 20	
sopulego	< OQ	< OQ	98	µg/g	0%	< 20	
soborneol	< OQ	< OQ	98	µg/g	0%	< 20	
Borneol	< OQ	< OQ	98	µg/g	0%	< 20	
D -Men hol	48000	43000	98	µg/g	3%	< 20	
Terpineol	< OQ	< OQ	98	µg/g	0%	< 20	
Nerol	< OQ	< OQ	98	µg/g	0%	< 20	
Pulegone	< OQ	< OQ	98	µg/g	0%	< 20	
Geraniol	< OQ	< OQ	98	µg/g	0%	< 20	
Geranyl Ace a e	< OQ	< OQ	98	µg/g	0%	< 20	
a-Cedrene	< OQ	< OQ	98	µg/g	0%	< 20	
b-Caryophyllene	969	938	98	µg/g	3%	< 20	
a-Humulene	< OQ	< OQ	98	µg/g	0%	< 20	
Valenene	< OQ	< OQ	98	µg/g	0%	< 20	
cis-Nerolidol	< OQ	< OQ	98	µg/g	0%	< 20	
a- arnesene	< OQ	< OQ	98	µg/g	0%	< 20	
trans-Nerolidol	< OQ	< OQ	98	µg/g	0%	< 20	
Caryophyllene Oxide	< OQ	< OQ	98	µg/g	0%	< 20	
Guaiol	< OQ	< OQ	98	µg/g	0%	< 20	
Cedrol	< OQ	< OQ	98	µg/g	0%	< 20	
a-Bisabolol	< OQ	< OQ	98	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.