



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



Report Number: 21-013541/D003.R000
Report Date: 11/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/17/21 11:17

Customer: Etz Hayim Holdings
Product identity: DJ23-d8
Client/Metric ID: .
Laboratory ID: 21-013541-0001

Summary

Potency:

Analyte	Result (%)			
Δ8-THC†	81.6	<ul style="list-style-type: none"> ● 8-THC ● 8-THCV ● CBN 		
Δ8-THCV	0.148		CBD-Total	<LOQ
CBN	0.131		THC-Total	<LOQ
		(Reported in percent of total sample)		

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.



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

Product identity: DJ23-d8
Client/Metric ID: .
Sample Date:
Laboratory ID: 21-013541-0001
Evidence of Cooling: No
Temp: 20.8 °C
Relinquished by: UPS

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)			Units %	Batch: 2110540	Analyze: 11/19/21 10:16:00 P
Analyte	As Received	Dry weight	LOQ	Notes		
CBC	< LOQ		0.0917		<ul style="list-style-type: none"> ● 8-THC ● 8-THCV ● CBN 	
CBC-A†	< LOQ		0.0917			
CBC-Total†	< LOQ		0.172			
CBD	< LOQ		0.0917			
CBD-A	< LOQ		0.0917			
CBD-Total	< LOQ		0.172			
CBDV†	< LOQ		0.0917			
CBDV-A†	< LOQ		0.0917			
CBDV-Total†	< LOQ		0.171			
CBE†	< LOQ		0.0917			
CBG†	< LOQ		0.0917			
CBG-A†	< LOQ		0.0917			
CBG-Total	< LOQ		0.171			
CBL†	< LOQ		0.0917			
CBL-A†	< LOQ		0.0917			
CBL-Total†	< LOQ		0.172			
CBN	0.131		0.0917			
CBT†	< LOQ		0.0917			
Δ8-THC†	81.6		0.917			
Δ8-THCV	0.148		0.0917			
Δ9-THC	< LOQ		0.0917			
THC-A	< LOQ		0.0917			
THC-Total	< LOQ		0.172			
THCV†	< LOQ		0.0917			
THCV-A†	< LOQ		0.0917			
THCV-Total†	< LOQ		0.171			
Total Cannabinoids†	81.9					



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Solvents						Residual Solvents by GC/MS					
Method						Batch 2110473					
Analyze 11/19/21 12:57 PM						Analyze 11/19/21 12:57 PM					
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		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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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2110498 Analyze 11/19/21 04:18 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		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							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes	
Arsenic	< LOQ	0.200	mg/kg	0.0712	2110488	11/19/21	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.200	mg/kg	0.0712	2110488	11/19/21	AOAC 2013.06 (mod.)	pass	X	
Lead	< LOQ	0.500	mg/kg	0.0712	2110488	11/19/21	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	0.100	mg/kg	0.0356	2110488	11/19/21	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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Cannabis Chain of Custody Record

ORELAP ID: OR100028

Company: ETZHH INC		Analysis Requested												Purchase Order Number:				
Contact: William Lee		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	Project Number:				
Address: 1116 NW 51st St, Seattle, WA 98107														Project Name:				
Email: testing@lazarusnaturals.com														<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				
Phone: 206-288-9976 Fax:														Other:				
Processor's License:																		
Field ID	Date/Time Collected													Matrix	Weight	Serving size for edibles	Comments/Metric ID	
DJ28-d8	11.15.21	1		1	1													DIST
PROC-DK54-d8	11.15.21			1														DIST

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)	<i>Kerri Ewalt</i>	<i>11/15/2021</i>		<i>DS</i>	<i>11/17/21</i>	<i>11:17</i>	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: <i>20.8°C</i>
							Shipped Via: <i>UPS</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.pixislabs.com

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Document ID: 3177 Revision: 2
Effective: 06/25/2021
Page 1 of 1

Job Number: _____ Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 11/17/21 Time: 11:17

Received By (Initials): DS Logged in by (Initials): _____ Date: _____ Time: _____

1) Were custody seals on outside of the package/cooler? YES NO NA
If YES, how many and where? _____

Does date match collection date on COC? _____ YES NO NA

2) Was Chain of Custody (COC) included in the package/cooler? YES NO NA

3) Was COC signed when relinquished and received? (time, date)? YES NO NA

4) How was the package/cooler delivered?

UPS FEDEX USPS CLIENT COURIER OTHER: _____

Tracking Number (written in or copy of shipping label): 1Z 5W8 35A 01 9956 0615

5) Was packing material used? YES NO NA

Peanuts Bubble Wrap Foam Paper Other:

6) Was temperature upon receipt 4°C+- 2°C (if appropriate)? YES NO NA

If not, client contacted: _____
Proceed? YES NO

7) Was there evidence of cooling? YES NO NA

What kind? Blue Ice Ice Cooler Packs Dry Ice

8) Were all sample containers sealed in separate plastic bags? YES NO NA

9) Did all sample containers arrive in good condition? YES NO NA

10) Were all sample container labels complete? YES NO NA

11) Did all sample container labels and tags agree with the COC? YES NO NA

12) Were correct sample containers used for the tests indicated? YES NO NA

13) Were VOA vials checked for absence of air bubbles (note if found)? YES NO NA

14) Was a sufficient amount of sample sent in each sample container? YES NO NA

16) Sample location prior to login: R99 R39 R44 F44 Ambient Shelf Cannabis Table Other: _____

Explain any discrepancies: 20.8°C



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Laboratory Quality Control Results

Batch ID: 2110473

Residual Solvents		Method Blank		Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		877	948	µg/g	92.4	70 - 130	
Isobutane	ND	< 200		1020	1260	µg/g	81.0	70 - 130	
Butane	ND	< 200		1010	1260	µg/g	80.2	70 - 130	
2,2-Dimethylpropane	ND	< 200		1660	1600	µg/g	103.8	70 - 130	
Methanol	ND	< 200		1480	1610	µg/g	91.9	70 - 130	
Ethylene Oxide	ND	< 30		88.2	95.7	µg/g	92.2	70 - 130	
2-Methylbutane	ND	< 200		1350	1610	µg/g	83.9	70 - 130	
Pentane	ND	< 200		1350	1610	µg/g	83.9	70 - 130	
Ethanol	ND	< 200		1480	1610	µg/g	91.9	70 - 130	
Ethyl Ether	ND	< 200		1310	1610	µg/g	81.4	70 - 130	
2,2-Dimethylbutane	ND	< 30		128	166	µg/g	78.0	70 - 130	
Acetone	ND	< 200		1370	1610	µg/g	85.1	70 - 130	
2-Propanol	ND	< 200		1510	1610	µg/g	93.8	70 - 130	
Ethyl Formate	ND	< 500		1290	1610	µg/g	80.1	70 - 130	
Acetonitrile	ND	< 100		412	484	µg/g	85.1	70 - 130	
Methyl Acetate	ND	< 500		1470	1610	µg/g	91.3	70 - 130	
2,3-Dimethylbutane	ND	< 30		166	167	µg/g	99.4	70 - 130	
Dichloromethane	ND	< 60		424	491	µg/g	86.4	70 - 130	
2-Methylpentane	ND	< 30		138	165	µg/g	84.2	70 - 130	
MTBE	ND	< 500		1460	1600	µg/g	91.3	70 - 130	
3-Methylpentane	ND	< 30		147	172	µg/g	85.5	70 - 130	
Hexane	ND	< 30		140	167	µg/g	83.8	70 - 130	
1-Propanol	ND	< 500		1500	1610	µg/g	93.2	70 - 130	
Methylethylketone	ND	< 500		1430	1620	µg/g	88.3	70 - 130	
Ethyl acetate	ND	< 200		1370	1610	µg/g	85.1	70 - 130	
2-Butanol	ND	< 200		1430	1610	µg/g	88.8	70 - 130	
Tetrahydrofuran	ND	< 100		410	483	µg/g	84.9	70 - 130	
Cyclohexane	ND	< 200		1310	1610	µg/g	81.4	70 - 130	
2-methyl-1-propanol	ND	< 500		1450	1620	µg/g	89.5	70 - 130	
Benzene	ND	< 1		4.30	5.30	µg/g	81.3	70 - 130	
Isopropyl Acetate	ND	< 200		1520	1620	µg/g	93.8	70 - 130	
Heptane	ND	< 200		1410	1610	µg/g	87.6	70 - 130	
1-Butanol	ND	< 500		1480	1610	µg/g	91.9	70 - 130	
Propyl Acetate	ND	< 500		1580	1620	µg/g	97.5	70 - 130	
1,4-Dioxane	ND	< 100		385	489	µg/g	78.7	70 - 130	
2-Ethoxyethanol	ND	< 30		148	167	µg/g	88.6	70 - 130	
Methylisobutylketone	ND	< 500		1410	1610	µg/g	87.6	70 - 130	
3-Methyl-1-butanol	ND	< 500		1370	1610	µg/g	85.1	70 - 130	
Ethylene Glycol	ND	< 200		440	504	µg/g	87.3	70 - 130	
Toluene	ND	< 200		372	484	µg/g	76.9	70 - 130	
Isobutyl Acetate	ND	< 500		1390	1610	µg/g	86.3	70 - 130	
1-Pentanol	ND	< 500		1260	1610	µg/g	78.3	70 - 130	
Butyl Acetate	ND	< 500		1320	1620	µg/g	81.5	70 - 130	
Ethylbenzene	ND	< 200		728	968	µg/g	75.0	70 - 130	
m-Xylene	ND	< 200		758	977	µg/g	77.7	70 - 130	
p-Xylene	ND	< 200		742	982	µg/g	75.6	70 - 130	
Cumene	ND	< 30		125	169	µg/g	74.0	70 - 130	
Anisole	ND	< 500		1210	1630	µg/g	74.2	70 - 130	
DMSO	ND	< 500		1190	1630	µg/g	73.0	70 - 130	
1,2-dimethoxyethane	ND	< 50		151	162	µg/g	93.2	70 - 130	
Tetrahydrofuran	ND	< 500		1470	1670	µg/g	88.0	70 - 130	
N,N-dimethylformamide	ND	< 150		389	502	µg/g	77.4	70 - 130	
N,N-dimethylacetamide	ND	< 150		392	489	µg/g	80.2	70 - 130	
Pyridine	ND	< 50		125	166	µg/g	75.3	70 - 130	
1,2-Dichloroethane	ND	< 1		1.18	1	µg/g	118.0	70 - 130	
Chloroform	ND	< 1		1.16	1	µg/g	116.0	70 - 130	
Tetrachloroethylene	ND	< 1		1.12	1	µg/g	112.0	70 - 130	



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QC - Sample Duplicate Sample ID: 21-013550-0001

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	
MTEE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methyl ethyl ketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	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	
BnMl 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

Units of Measure:
 µg/g - Microgram per gram or ppm



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



Report Number: 21-013541/D003.R000
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ORELAP#: OR100028
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Revision: 2 Document ID: 3120
Legacy ID: CFL-C21Effective:

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 2110498				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Accephate	0.086	< 0.250		1.221	1.000	122.1	72.6 - 135	
Acetaminocyl	0.000	< 1.000		6.107	4.000	152.7	72.2 - 134	Q1
Acetamidiprid	0.000	< 0.100		0.475	0.400	118.7	72.7 - 135	
Aldicarb	0.000	< 0.200		0.768	0.800	96.0	74.7 - 139	
Abamectin	0.000	< 0.250		1.259	1.000	125.9	75.6 - 140	
Azoxystrobin	0.000	< 0.100		0.486	0.400	121.5	72.1 - 134	
Bifenazate	0.000	< 0.100		1.143	0.400	285.7	79.2 - 147	Q1
Bifenthrin	0.000	< 0.100		0.474	0.400	118.4	72.1 - 134	
Boscalid	0.000	< 0.200		1.031	0.800	128.9	72.9 - 135	
Carbaryl	0.011	< 0.100		0.480	0.400	120.1	73.0 - 135	
Carbofuran	0.000	< 0.100		0.501	0.400	125.3	73.6 - 137	
Chlorantraniliprol	0.000	< 0.100		0.400	0.400	99.9	68.1 - 127	
Chlorfenapyr	0.000	< 0.500		2.543	2.000	127.1	72.8 - 135	
Chlorpyrifos	0.000	< 0.100		0.510	0.400	127.5	70.7 - 131	
Clofentezine	0.000	< 0.100		0.450	0.400	112.4	71.1 - 132	
Cyfluthrin	0.000	< 0.500		2.424	2.000	121.2	74.3 - 138	
Cypermethrin	0.000	< 0.500		2.199	2.000	110.0	73.2 - 136	
Daminozide	0.253	< 0.500		2.441	2.000	122.1	72.1 - 134	
Diazinon	0.000	< 0.100		0.598	0.400	149.6	72.7 - 135	Q1
Dichlorvos	0.000	< 0.500		2.272	2.000	113.6	70.9 - 132	
Dimethoat	0.000	< 0.100		0.449	0.400	112.1	72.4 - 134	
Ethoprophos	0.000	< 0.100		0.467	0.400	116.8	71.2 - 132	
Etofenprox	0.000	< 0.200		0.898	0.800	112.2	73.7 - 137	
Etoxazol	0.000	< 0.100		0.496	0.400	124.0	72.9 - 135	
Fenoxycarb	0.044	< 0.100		0.517	0.400	129.3	71.9 - 134	
Fenpyroximat	0.000	< 0.200		0.958	0.800	119.8	73.0 - 136	
Fipronil	0.000	< 0.200		0.890	0.800	111.3	74.2 - 138	
Flonicamid	0.000	< 0.250		1.075	1.000	107.5	73.1 - 136	
Fludoxonil	0.000	< 0.200		0.989	0.800	123.6	74.6 - 138	
Hexythiazox	0.000	< 0.250		1.112	1.000	111.2	70.9 - 132	
Imazail	0.000	< 0.100		0.480	0.400	120.0	74.4 - 138	
Imidacloprid	0.000	< 0.200		0.975	0.800	121.8	72.4 - 134	
Kresoxim-Methyl	0.000	< 0.200		0.933	0.800	116.7	72.3 - 134	
Malathion	0.000	< 0.100		0.519	0.400	129.7	72.1 - 134	
Metaxalyl	0.000	< 0.100		0.493	0.400	123.3	72.9 - 135	
Methiocarb	0.015	< 0.100		0.470	0.400	117.4	72.3 - 134	
Methomyl	0.000	< 0.200		0.825	0.800	103.1	71.8 - 133	
M/GK 264	0.000	< 0.100		0.475	0.400	118.8	72.2 - 134	
Myclobutanil	0.000	< 0.100		0.513	0.400	128.2	72.5 - 135	
Naled	0.000	< 0.250		1.169	1.000	116.9	72.7 - 135	
Oxamyl	0.000	< 0.500		2.173	2.000	108.7	73.0 - 136	
Paclobutrazol	0.000	< 0.200		1.018	0.800	127.2	72.9 - 135	
Parathion Methyl	0.000	< 0.200		1.027	0.800	128.4	74.9 - 139	
Permethrin	0.000	< 0.100		0.442	0.400	110.6	72.5 - 135	
Phosmet	0.000	< 0.100		0.503	0.400	125.7	72.2 - 134	
Piperonyl butoxide	0.000	< 0.500		2.571	2.000	128.5	75.3 - 140	
Prallethrin	0.000	< 0.100		0.452	0.400	112.9	72.5 - 135	
Propiconazole	0.000	< 0.200		0.998	0.800	124.7	72.5 - 135	
Propoxur	0.019	< 0.100		0.472	0.400	117.9	71.9 - 133	
Pyrethrins	0.000	< 0.100		0.437	0.413	105.8	68.7 - 128	
Pyridaben	0.000	< 0.100		0.459	0.400	114.8	72.0 - 134	
Spinosad	0.000	< 0.100		0.496	0.388	127.7	74.6 - 139	
Spiromesifen	0.000	< 0.100		0.514	0.400	128.6	74.0 - 137	
Spirotetramat	0.000	< 0.100		0.466	0.400	116.6	72.9 - 135	
Spiroxamine	0.000	< 0.200		0.914	0.800	114.2	70.4 - 131	
Tebuconazol	0.000	< 0.200		1.073	0.800	134.1	72.4 - 134	
Thiadoprid	0.000	< 0.100		0.497	0.400	124.2	72.1 - 134	
Thiamethoxam	0.000	< 0.100		0.410	0.400	102.6	71.8 - 133	
Trifloxystrobin	0.000	< 0.100		0.483	0.400	120.9	72.2 - 134	



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg						Batch ID: 2110498		
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 21-012632-0003								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Accephate	0.000	1.189	1.206	1.000	1.4%	< 30	118.9%	120.6%	50 - 150	
Acetaminoprid	0.000	0.456	0.451	0.400	1.1%	< 30	114.1%	112.8%	50 - 150	Q1
Aldicarb	0.000	1.227	1.008	0.800	19.5%	< 30	153.3%	126.1%	50 - 150	Q1
Abamectin	0.000	1.265	1.260	1.000	0.4%	< 30	126.5%	126.0%	50 - 150	
Azoxystrobin	0.000	0.447	0.451	0.400	1.0%	< 30	111.8%	112.9%	50 - 150	
Bifenazate	0.000	1.121	1.091	0.400	2.7%	< 30	280.2%	272.8%	50 - 150	Q1
Bifenthrin	0.000	0.105	0.096	0.400	8.3%	< 30	26.2%	24.1%	50 - 150	Q
Boscalid	0.000	0.939	0.965	0.800	2.7%	< 30	117.4%	120.7%	50 - 150	
Carbaryl	0.000	0.447	0.442	0.400	1.0%	< 30	111.6%	110.5%	50 - 150	
Carbofuran	0.000	0.434	0.480	0.400	10.0%	< 30	108.5%	119.9%	50 - 150	
Chlorantraniliprol	0.000	0.395	0.375	0.400	5.2%	< 30	98.7%	93.6%	50 - 150	
Chlorfenapyr	0.000	1.771	1.733	2.000	2.2%	< 30	88.6%	86.7%	50 - 150	
Chlorpyrifos	0.000	0.466	0.458	0.400	1.7%	< 30	116.5%	114.6%	50 - 150	
Clofentezine	0.000	0.434	0.424	0.400	2.3%	< 30	108.4%	105.9%	50 - 150	
Cyfluthrin	0.000	1.604	1.454	2.000	9.8%	< 30	80.2%	72.7%	30 - 150	
Cypermethrin	0.000	1.418	1.372	2.000	3.3%	< 30	70.9%	68.6%	50 - 150	
Daminozide	0.000	1.328	1.367	2.000	2.9%	< 30	66.4%	68.4%	30 - 150	
Diazinon	0.000	0.620	0.568	0.400	8.7%	< 30	155.0%	142.1%	50 - 150	Q1
Dichlorvos	0.000	2.061	2.131	2.000	3.4%	< 30	103.1%	106.6%	50 - 150	
Dimethoat	0.000	0.423	0.426	0.400	0.6%	< 30	105.7%	106.4%	50 - 150	
Ethoprophos	0.000	0.459	0.456	0.400	0.8%	< 30	114.7%	113.9%	50 - 150	
Etofenprox	0.039	0.921	0.798	0.800	15.0%	< 30	110.3%	94.8%	50 - 150	
Etoxazol	0.000	0.437	0.467	0.400	6.7%	< 30	109.1%	116.7%	50 - 150	
Fenoxycarb	0.040	0.461	0.468	0.400	1.5%	< 30	105.2%	106.8%	50 - 150	
Fenpyroximat	0.000	0.862	0.864	0.800	0.2%	< 30	107.7%	108.0%	50 - 150	
Fipronil	0.000	0.562	0.713	0.800	23.6%	< 30	70.3%	89.1%	50 - 150	
Fonicamid	0.000	1.032	0.976	1.000	5.6%	< 30	103.2%	97.6%	50 - 150	
Fludioxonil	0.000	1.016	0.864	0.800	16.1%	< 30	127.0%	108.0%	50 - 150	
Hexythiazox	0.000	0.992	1.113	1.000	11.5%	< 30	99.2%	111.3%	50 - 150	
Imazalil	0.000	0.476	0.435	0.400	9.0%	< 30	119.1%	108.8%	50 - 150	
Imidacloprid	0.000	0.951	0.918	0.800	3.5%	< 30	118.9%	114.7%	50 - 150	
Kresoxim-Methyl	0.000	0.940	0.909	0.800	3.3%	< 30	117.5%	113.6%	50 - 150	
Malathion	0.000	0.473	0.491	0.400	3.8%	< 30	118.2%	122.8%	50 - 150	
Metaxalyl	0.000	0.483	0.477	0.400	1.1%	< 30	120.6%	119.3%	50 - 150	
Methiocarb	0.014	0.448	0.455	0.400	1.7%	< 30	108.5%	110.4%	50 - 150	
Methomyl	0.000	0.778	0.787	0.800	1.2%	< 30	97.3%	98.4%	50 - 150	
MGK 264	0.000	0.401	0.427	0.400	6.4%	< 30	100.2%	106.8%	50 - 150	
Myclobutanil	0.000	0.450	0.474	0.400	5.2%	< 30	112.5%	118.5%	50 - 150	
Naled	0.000	1.114	1.123	1.000	0.8%	< 30	111.4%	112.3%	50 - 150	
Oxamyl	0.000	2.175	1.961	2.000	10.4%	< 30	108.8%	98.0%	50 - 150	
Paclobutrazol	0.000	0.900	0.928	0.800	3.0%	< 30	112.5%	115.9%	50 - 150	
Parathion Methyl	0.000	0.837	0.929	0.800	10.5%	< 30	104.6%	116.1%	30 - 150	
Permethrin	0.000	0.273	0.307	0.400	11.6%	< 30	68.4%	76.8%	50 - 150	
Phosmet	0.000	0.479	0.485	0.400	1.2%	< 30	119.8%	121.2%	50 - 150	
Piperonyl butoxide	0.000	2.319	2.300	2.000	0.8%	< 30	115.9%	115.0%	50 - 150	
Prallethrin	0.000	0.504	0.520	0.400	3.1%	< 30	126.0%	130.0%	50 - 150	
Propiconazole	0.000	0.909	0.892	0.800	1.8%	< 30	113.6%	111.6%	50 - 150	
Propoxur	0.000	0.439	0.444	0.400	1.1%	< 30	109.8%	111.0%	50 - 150	
Pyrethrins	0.000	0.148	0.162	0.413	8.8%	< 30	35.8%	39.1%	50 - 150	Q
Pyridaben	0.000	0.429	0.409	0.400	4.7%	< 30	107.2%	102.3%	50 - 150	
Spinosad	0.000	0.458	0.441	0.388	3.8%	< 30	118.1%	113.7%	50 - 150	
Spiromesifen	0.000	0.491	0.506	0.400	2.9%	< 30	122.9%	126.5%	50 - 150	
Spirotetramat	0.000	0.477	0.470	0.400	1.5%	< 30	119.3%	117.5%	50 - 150	
Spiroxamine	0.000	0.901	0.899	0.800	0.2%	< 30	112.6%	112.4%	50 - 150	
Tebuconazol	0.000	0.940	0.925	0.800	1.6%	< 30	117.5%	115.6%	50 - 150	
Thiadoprid	0.000	0.509	0.471	0.400	7.7%	< 30	127.2%	117.8%	50 - 150	
Thiamethoxam	0.000	0.409	0.369	0.400	10.2%	< 30	102.2%	92.3%	50 - 150	
Trifloxystrobin	0.000	0.450	0.455	0.400	1.1%	< 30	112.5%	113.7%	50 - 150	



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Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2110540**

Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.216	0.2	%	108	85.0 - 115	Acceptable	
CBDV	0.226	0.2	%	113	85.0 - 115	Acceptable	
CBE	0.195	0.2	%	97.6	85.0 - 115	Acceptable	
CBDA	0.209	0.2	%	105	85.0 - 115	Acceptable	
CBGA	0.216	0.2	%	108	85.0 - 115	Acceptable	
CBG	0.217	0.2	%	108	85.0 - 115	Acceptable	
CBD	0.197	0.2	%	98.7	85.0 - 115	Acceptable	
THCV	0.205	0.2	%	103	85.0 - 115	Acceptable	
d8THCV	0.185	0.2	%	92.4	85.0 - 115	Acceptable	
THCVA	0.212	0.2	%	106	85.0 - 115	Acceptable	
CBN	0.198	0.2	%	99.2	85.0 - 115	Acceptable	
exo-THC	0.174	0.2	%	87.1	85.0 - 115	Acceptable	
d9THC	0.186	0.2	%	93.1	85.0 - 115	Acceptable	
d8THC	0.206	0.2	%	103	85.0 - 115	Acceptable	
CBL	0.193	0.2	%	96.4	85.0 - 115	Acceptable	
CBC	0.216	0.2	%	108	85.0 - 115	Acceptable	
THCA	0.204	0.2	%	102	85.0 - 115	Acceptable	
CBCA	0.223	0.2	%	112	85.0 - 115	Acceptable	
CBLA	0.203	0.2	%	102	85.0 - 115	Acceptable	
CBT	0.216	0.2	%	108	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.1	%	< 0.1	Acceptable	
CBDV	<LOQ	0.1	%	< 0.1	Acceptable	
CBE	<LOQ	0.1	%	< 0.1	Acceptable	
CBDA	<LOQ	0.1	%	< 0.1	Acceptable	
CBGA	<LOQ	0.1	%	< 0.1	Acceptable	
CBG	<LOQ	0.1	%	< 0.1	Acceptable	
CBD	<LOQ	0.1	%	< 0.1	Acceptable	
THCV	<LOQ	0.1	%	< 0.1	Acceptable	
d8THCV	<LOQ	0.1	%	< 0.1	Acceptable	
THCVA	<LOQ	0.1	%	< 0.1	Acceptable	
CBN	<LOQ	0.1	%	< 0.1	Acceptable	
exo-THC	<LOQ	0.1	%	< 0.1	Acceptable	
d9THC	<LOQ	0.1	%	< 0.1	Acceptable	
d8THC	<LOQ	0.1	%	< 0.1	Acceptable	
CBL	<LOQ	0.1	%	< 0.1	Acceptable	
CBC	<LOQ	0.1	%	< 0.1	Acceptable	
THCA	<LOQ	0.1	%	< 0.1	Acceptable	
CBCA	<LOQ	0.1	%	< 0.1	Acceptable	
CBLA	<LOQ	0.1	%	< 0.1	Acceptable	
CBT	<LOQ	0.1	%	< 0.1	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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 Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2110540								
Sample Duplicate								
Sample ID: 21-013424-0001								
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	
CBDA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG	3.50	3.48	0.1	%	0.674	< 20	Acceptable	
CBD	2.82	2.76	0.1	%	1.86	< 20	Acceptable	
THCV	0.475	0.462	0.1	%	2.70	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBN	2.48	2.44	0.1	%	1.44	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d9THC	73.4	74.4	0.1	%	1.41	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	0.362	0.351	0.1	%	3.25	< 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	
CBT	1.69	1.62	0.1	%	4.41	< 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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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.