



Product identity: LM B8
Laboratory ID: 19-010446-0002

Client/Metric ID: .
Sample Date: 08/30/19 13:38

Summary

Potency:

Analyte per 4g	Result	Limits	Units	LOQ	
CBC per 4g [†]	0.224		mg/4g	0.13	CBD-Total per 4g 22.9 mg/4g
CBD per 4g	22.9		mg/4g	0.13	THC-Total per 4g < 0.250 mg/4g
					(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



Customer: NW Natural Goods

Product identity: LM B8
Client/Metric ID: .
Sample Date: 08/30/19 13:38
Laboratory ID: 19-010446-0002
Relinquished by: Brian Ramos
Temp: 21 °C
Grower: 330-1058115ihh
Weight Received: 80 g
Serving Size #1: 4 g

Sample Results

Potency per 4g		Batch: 1907998					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 4g [†]	0.224		mg/4g	0.133	09/06/19	J AOAC 2015 V98-6	
CBC-A per 4g [†]	< LOQ		mg/4g	0.133	09/06/19	J AOAC 2015 V98-6	
CBC-Total per 4g [†]	< LOQ		mg/4g	0.250	09/06/19	J AOAC 2015 V98-6	
CBD per 4g	22.9		mg/4g	0.133	09/06/19	J AOAC 2015 V98-6	
CBD-A per 4g	< LOQ		mg/4g	0.133	09/06/19	J AOAC 2015 V98-6	
CBD-Total per 4g	22.9		mg/4g	0.250	09/06/19	J AOAC 2015 V98-6	
CBDV per 4g [†]	< LOQ		mg/4g	0.133	09/06/19	J AOAC 2015 V98-6	
CBDV-A per 4g [†]	< LOQ		mg/4g	0.133	09/06/19	J AOAC 2015 V98-6	
CBDV-Total per 4g [†]	< LOQ		mg/4g	0.249	09/06/19	J AOAC 2015 V98-6	
CBG per 4g [†]	< LOQ		mg/4g	0.133	09/06/19	J AOAC 2015 V98-6	
CBG-A per 4g [†]	< LOQ		mg/4g	0.133	09/06/19	J AOAC 2015 V98-6	
CBG-Total per 4g [†]	< LOQ		mg/4g	0.250	09/06/19	J AOAC 2015 V98-6	
CBL per 4g [†]	< LOQ		mg/4g	0.133	09/06/19	J AOAC 2015 V98-6	
CBN per 4g	< LOQ		mg/4g	0.133	09/06/19	J AOAC 2015 V98-6	
Δ8-THC per 4g [†]	< LOQ		mg/4g	0.133	09/06/19	J AOAC 2015 V98-6	
Δ9-THC per 4g	< LOQ		mg/4g	0.133	09/06/19	J AOAC 2015 V98-6	
THC-A per 4g	< LOQ		mg/4g	0.133	09/06/19	J AOAC 2015 V98-6	
THC-Total per 4g	< LOQ		mg/4g	0.250	09/06/19	J AOAC 2015 V98-6	
THCV per 4g [†]	< LOQ		mg/4g	0.133	09/06/19	J AOAC 2015 V98-6	
THCV-A per 4g [†]	< LOQ		mg/4g	0.133	09/06/19	J AOAC 2015 V98-6	
THCV-Total per 4g [†]	< LOQ		mg/4g	0.249	09/06/19	J AOAC 2015 V98-6	



Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1907876	09/05/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1907876	09/05/19	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	1907877	09/05/19	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	1907877	09/05/19	AOAC 2014.05 (RAPID)	X

Solvents						Method EPA5021A		Units µg/g		Batch 1907923		Analyze 09/04/19 11:51 AM	
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes		
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass			
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane	< LOQ		200				
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass			
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< LOQ		200				
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0				
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass			
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass			
Cyclohexane	< LOQ	3880	200	pass		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	30.0	pass			
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass			
Isopropylbenzene	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200				
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	200	pass			
Methylpropane	< LOQ		200			n-Butane	< LOQ		200				
n-Heptane	< LOQ	5000	200	pass		n-Hexane	< LOQ		30.0				
n-Pentane	< LOQ		200			o-Xylene	< LOQ		200				
Pentanes (sum)	< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass			
Tetrahydrofuran	< LOQ	720	100	pass		Toluene	< LOQ	890	100	pass			
Total Xylenes	< LOQ		400			Total Xylenes and Ethyl	< LOQ	2170	600	pass			



Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 1907926 Analyze 09/04/19 04:02 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	0.100	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 (incl.	< 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	0.100	pass		Propiconazole	< LOQ	0.40	0.200	pass	
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< LOQ	1.0	0.500	pass	
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100	pass	
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100	pass	
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200	pass	
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100	pass	
Trifloxystrobin	< LOQ	0.20	0.100	pass							

Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.0519	1908012	09/05/19	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0519	1908012	09/05/19	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.0519	1908012	09/05/19	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.0260	1908012	09/05/19	AOAC 2013.06 (mod.)	X	

Nutrition									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Moisture (Loss on Drying)	16.4		g/100g	0.10	1908040	09/05/19	AOAC 925.10 (mod.)		
Water Activity	0.709		Aw	0.030	1908058	09/06/19	AOAC 978.18		



Abbreviations

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

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

Units of Measure

cfu/g = Colony forming units per gram

g = Gram

g/100g = Grams per 100 Grams

µg/g = Microgram per gram

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

mg/4g = Milligram per 4g

% = Percentage of sample

Aw = Water Activity

% 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 p.503-254-1794

Cannabis Chain of Custody Record

ORELAP ID: OR100028

Company: NW Natural Goods		Analysis Requested										Purchase Order Number:		
Contact: Max Krueger		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	OPEN MARKET HEMP CBD BATCH SIZES								Project Number:			
Address: 11791 SE HWY 212, Clackamas, OR 97015			LM B7 - 26,840 LM B8 - 30,256								Project Name:			
Email: max@nwconfections.com			HB B8 - 26,369 HB B9 - 26,487 HB B10 - 30,650 HB B11 - 30,678								<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: 503-459-1176 Fax:											Other:			
Processor's License: 330-1058115IHH														
Field ID	Date/Time Collected										Matrix	Weight	Serving size for edibles	Comments/Metric ID
LM B7		X	X	X	X	X	X	X	X	X		80g	4g	
LM B8		X	X	X	X	X	X	X	X	X		80g	4g	
HB B8		X	X	X	X	X	X	X	X	X		80g	4g	
HB B9		X	X	X	X	X	X	X	X	X		80g	4g	
HB B10		X	X	X	X	X	X	X	X	X		80g	4g	
HB B11		X	X	X	X	X	X	X	X	X		80g	4g	

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)	Max Krueger	8/30/19		<i>[Signature]</i>	8.30.19	1338	Client Alias: <i>r</i>
<input type="checkbox"/> Rush (3-4 day) (1.5x Standard)	<i>[Signature]</i>	8.30.19	1524	<i>[Signature]</i>	08.30.19	1524	Order Number: <i>r</i>
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Proper Contained: <i>r</i>
							Sample Condition: <i>r</i>
							Temperature: <i>21.0c</i>
							Shipped Via: <i>Car</i>
							Evidence of cooling: <input checked="" 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: 1.00 Control#: CF023
Effective 11/8/2018 Revised 11/8/2018

www.pixislabs.com

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

Cannabis Chain of Custody Record

PRICES AND CHARGING

Prices to be charged for work performed for CUSTOMER are those currently published in the Columbia Food Laboratories, Inc. DBA Pixis Labs (herein referred to as "the LAB", where Columbia Food Laboratories, Inc. & Pixis Labs can be used interchangeably) standard price book unless otherwise agreed in writing by the CUSTOMER and the LAB. CUSTOMER must notify the LAB of price quotation at the time of the transfer of sample(s) to the LAB. Any cancellation of testing requirements will result in charges being assessed on all testing completed prior to the notice of cancellation. Unless otherwise agreed upon, samples containing hazardous materials will be shipped back to client at their expense, or disposed of at a certain fee, waste category dependent. Price quotes are valid for one year after initial quote date.

DELIVERY AND LIABILITY LIMITATIONS

The specific format of the goods will be defined by the CUSTOMER to the LAB upon delivery of the sample(s) to the LAB. The LAB will analyze samples provided by CUSTOMER as requested by CUSTOMER in accordance with the procedures documented in the Quality Assurance Plan (QAP). Samples are retained for 15 days. If additional time is desired, then a written request is required, and an additional monthly fee will apply.

CONFIDENTIALITY

The LAB will treat all information regarding work performed for CUSTOMER as proprietary and confidential. No CUSTOMER information will be released to third party persons without the written request of the CUSTOMER.

LIMITATION OF LIABILITY AND WARRANTY

The LAB gives no warranty, express or implied, or of fitness for a particular purpose, in connection with its analytical testing or reporting. Any liability of the LAB to CUSTOMER or any third party shall be limited to the cost of analysis charged to the CUSTOMER.

PAST DUE ACCOUNTS

Credit line account are payable within 30 days. Accounts that are 60 days past due will incur 1.5% per month on all past due sums until paid in full. Customer agrees to pay the interest as a service charge and all the LAB's collection costs, including reasonable attorney fees.

EXPERT TESTIMONY AND COURT APPEARANCES

In the event CUSTOMER requires further written opinion or testimony of any employee of the LAB, including response to a subpoena issued by CUSTOMER or any third person, the CUSTOMER agrees to pay additional fees and expenses as may be reasonably assessed by the LAB.

ALTERNATIVE DISPUTE RESOLUTION (ADR)

Any disputes arising out of this Agreement or the analytical testing or reporting by the LAB shall be settled through mediation and/or arbitration rather than litigation, and the cost of the ADR shall be borne equally by both parties.

APPLICABLE LAW

Legal matters arising from work performed by the LAB for CUSTOMER will be construed and interpreted in accordance with the laws for the state of OREGON. Samples are being received with the full understanding that they are in compliance with state and federal law.



Laboratory Quality Control Results

EPA 5021				Batch ID: 1907923					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		967	1200	µg/g	80.6	70 - 130	
Isobutane	ND	< 200		1230	1570	µg/g	78.3	70 - 130	
Butane	ND	< 200		1220	1570	µg/g	77.7	70 - 130	
2,2-dimethylpropane	ND	< 200		1560	1980	µg/g	78.8	70 - 130	
Methanol	ND	< 200		1750	2400	µg/g	72.9	70 - 130	
Ethylene Oxide	ND	< 30		86.5	119	µg/g	72.7	70 - 130	
2-Methylbutane	ND	< 200		1740	2400	µg/g	72.5	70 - 130	
n-Pentane	ND	< 200		1790	2380	µg/g	75.2	70 - 130	
Ethanol	ND	< 200		1790	2400	µg/g	74.6	70 - 130	
Ethyl Ether	ND	< 200		1790	2410	µg/g	74.3	70 - 130	
2,2-Dimethylbutane	ND	< 30		486	636	µg/g	76.4	70 - 130	
Acetone	ND	< 200		1770	2390	µg/g	74.1	70 - 130	
Isopropyl alcohol	ND	< 200		1770	2400	µg/g	73.8	70 - 130	
Acetonitrile	ND	< 100		678	963	µg/g	70.4	70 - 130	
2,3-Dimethylbutane	ND	< 30		477	641	µg/g	74.4	70 - 130	
Dichloromethane	ND	< 200		728	958	µg/g	76.0	70 - 130	
2-Methylpentane	ND	< 30		253	317	µg/g	79.8	70 - 130	
3-Methylpentane	ND	< 30		228	319	µg/g	71.5	70 - 130	
Hexane	ND	< 30		237	322	µg/g	73.6	70 - 130	
Ethyl acetate	ND	< 200		1690	2410	µg/g	70.1	70 - 130	
2-Butanol	ND	< 200		1720	2400	µg/g	71.7	70 - 130	
Tetrahydrofuran	ND	< 100		719	965	µg/g	74.5	70 - 130	
Cyclohexane	ND	< 200		1860	2400	µg/g	77.5	70 - 130	
Benzene	ND	< 1		32.1	41.6	µg/g	77.2	70 - 130	
Isopropyl Acetate	ND	< 200		1770	2400	µg/g	73.8	70 - 130	
Heptane	ND	< 200		1830	2400	µg/g	76.3	70 - 130	
1,4-Dioxane	ND	< 100		762	975	µg/g	78.2	70 - 130	
2-Ethoxyethanol	ND	< 30		1920	2400	µg/g	80.0	70 - 130	
Ethylene Glycol	ND	< 200		812	984	µg/g	82.5	70 - 130	
Toluene	ND	< 200		773	973	µg/g	79.4	70 - 130	
Ethylbenzene	ND	< 200		1520	1930	µg/g	78.8	70 - 130	
m,p-Xylene	ND	< 200		1550	1930	µg/g	80.3	70 - 130	
o-Xylene	ND	< 200		1540	1930	µg/g	79.8	70 - 130	
Cumene	ND	< 30		259	328	µg/g	79.0	70 - 130	



QC - Sample Duplicate Sample ID: 19-010446-0001

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	
n-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	
Isopropyl alcohol	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	200	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	
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	

Abbreviations

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- * Screening only
- Q1 - Quality Control result biased high. Only non detect samples reported.

Units of Measure:

- µg/g - Microgram per gram or ppm
- mg/Kg - Milligrams per Kilogram
- Aw - Water Activity unit



Revision: 1.00 Control: CFL-C21
Revised: 08/12/2019 Effective: 08/15/2019

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 1907926			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	0.000	< 0.200		0.907	1.000	90.7	68.2 - 125	
Acequinocyl	0.070	< 1.000		3.901	4.000	97.5	74.4 - 138	
Acetamiprid	0.009	< 0.100		0.347	0.400	86.8	84.5 - 118	
Aldicarb	0.030	< 0.200		0.730	0.800	91.2	78.8 - 125	
Abamectin	0.000	< 0.288		0.910	1.000	91.0	79.8 - 118	
Azoxystrobin	0.004	< 0.100		0.344	0.400	86.0	87.2 - 112	Q6
Bifenazate	0.019	< 0.100		0.380	0.400	95.0	74.3 - 122	
Bifenthrin	0.006	< 0.100		0.377	0.400	94.1	82.7 - 118	
Boscalid	0.015	< 0.100		0.675	0.800	84.4	82.1 - 124	
Carbaryl	0.018	< 0.100		0.368	0.400	92.0	88.1 - 113	
Carbofuran	0.012	< 0.100		0.359	0.400	89.7	88.5 - 120	
Chlorantraniliprol	0.000	< 0.100		0.343	0.400	85.8	86.7 - 108	Q6
Chlorfenapyr	0.829	< 1.000		1.774	2.000	88.7	68.5 - 127	
Chlorpyrifos	0.000	< 0.100		0.385	0.400	96.3	79.2 - 119	
Clofentezine	0.008	< 0.100		0.311	0.400	77.7	61.5 - 114	
Cyfluthrin	0.096	< 1.000		2.264	2.000	113.2	82.9 - 120	
Cypermethrin	0.000	< 1.000		1.921	2.000	96.0	82.7 - 115	
Daminozide	0.000	< 1.000		0.638	2.000	31.9	29.2 - 54.2	
Diazinon	0.009	< 0.100		0.366	0.400	91.5	76.9 - 122	
Dichlorvos	0.046	< 0.500		1.897	2.000	94.9	70.2 - 130	
Dimethoat	0.025	< 0.100		0.346	0.400	86.5	83.5 - 114	
Ethoprophos	0.003	< 0.100		0.407	0.400	101.7	87.6 - 111	
Etofenprox	0.012	< 0.100		0.751	0.800	93.9	84.8 - 121	
Etoxazol	0.000	< 0.100		0.389	0.400	97.3	76.9 - 143	
Fenoxycarb	0.000	< 0.100		0.378	0.400	94.5	82.0 - 117	
Fenpyroximat	0.025	< 0.100		0.745	0.800	93.1	86.9 - 115	
Fipronil	0.000	< 0.100		0.777	0.800	97.1	81.8 - 118	
Flonicamid	0.004	< 0.400		0.995	1.000	99.5	76.3 - 117	
Fludioxonil	0.000	< 0.100		0.732	0.800	91.5	81.5 - 117	
Hexythiazox	0.000	< 0.400		0.961	1.000	96.1	80.7 - 120	
Imazalil	0.000	< 0.100		0.359	0.400	89.8	88.2 - 117	
Imidacloprid	0.000	< 0.200		0.730	0.800	91.2	82.2 - 116	
Kresoxim-Methyl	0.000	< 0.100		0.757	0.800	94.6	77.6 - 122	
Malathion	0.018	< 0.100		0.370	0.400	92.5	88.8 - 116	
Metaxyl	0.002	< 0.100		0.363	0.400	90.7	87.7 - 111	
Methiocarb	0.028	< 0.100		0.361	0.400	90.3	85.7 - 116	
Methomyl	0.000	< 0.200		0.814	0.800	101.7	68.4 - 127	
MGK 264	0.003	< 0.100		0.391	0.400	97.8	81.0 - 122	
Myclobutanil	0.021	< 0.100		0.373	0.400	93.2	85.9 - 112	
Naled	0.000	< 0.200		0.828	1.000	82.8	71.6 - 116	
Oxamyl	0.000	< 0.400		2.074	2.000	103.7	68.3 - 127	
Paclobutrazol	0.013	< 0.200		0.742	0.800	92.8	87.4 - 119	
Parathion Methyl	0.125	< 0.200		0.677	0.800	84.6	72.9 - 132	
Permethrin	0.005	< 0.100		0.372	0.400	93.0	84.6 - 113	
Phosmet	0.008	< 0.100		0.359	0.400	89.7	85.3 - 115	
Piperonyl butoxide	0.053	< 1.000		1.887	2.000	94.4	87.6 - 118	
Prallethrin	0.000	< 0.200		0.839	0.800	104.9	83.5 - 119	
Propiconazole	0.017	< 0.200		0.734	0.800	91.7	81.3 - 117	
Propoxur	0.015	< 0.100		0.349	0.400	87.4	85.9 - 118	
Pyrethrins	0.001	< 0.500		0.289	0.284	101.8	88.0 - 121	
Pyridaben	0.000	< 0.100		0.387	0.400	96.8	80.6 - 118	
Spinosad	0.000	< 0.100		0.372	0.388	95.9	81.7 - 135	
Spiromesifen	0.015	< 0.100		0.393	0.400	98.2	83.0 - 116	
Spirotetramat	0.008	< 0.100		0.393	0.400	98.2	78.0 - 116	
Spiroxamine	0.000	< 0.100		0.682	0.800	85.3	87.8 - 116	Q6
Tebuconazol	0.021	< 0.200		0.715	0.800	89.4	77.5 - 120	
Thiacloprid	0.017	< 0.100		0.359	0.400	89.7	80.6 - 119	
Thiamethoxam	0.015	< 0.100		0.394	0.400	98.6	68.7 - 127	
Trifloxystrobin	0.000	< 0.100		0.396	0.400	99.0	86.9 - 118	

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Revision: 1.00 Control: CFL-C21
Revised: 08/12/2019 Effective: 08/15/2019

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg				Batch ID: 1907926				
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 19-010400-0005								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.000	0.914	0.884	1.000	3.3	< 30	91.4	88.4	50 - 150	
Acequinocyl	0.093	4.151	3.789	4.000	9.1	< 30	101.5	92.4	50 - 150	
Acetamiprid	0.009	0.374	0.370	0.400	1.0	< 30	91.3	90.3	50 - 150	
Aldicarb	0.000	0.739	0.687	0.800	7.3	< 30	92.3	85.9	50 - 150	
Abamectin	0.000	1.019	0.953	1.000	6.8	< 30	101.9	95.3	50 - 150	
Azoxystrobin	0.005	0.350	0.364	0.400	3.9	< 30	86.3	89.8	50 - 150	
Bifenazate	0.019	0.375	0.373	0.400	0.6	< 30	89.1	88.6	50 - 150	
Bifenthrin	0.008	0.396	0.402	0.400	1.3	< 30	97.2	98.5	50 - 150	
Boscalid	0.017	0.717	0.753	0.800	4.8	< 30	87.6	92.0	50 - 150	
Carbaryl	0.017	0.386	0.362	0.400	6.5	< 30	92.4	86.3	50 - 150	
Carbofuran	0.012	0.388	0.394	0.400	1.7	< 30	94.1	95.7	50 - 150	
Chlorantraniliprol	0.000	0.399	0.394	0.400	1.1	< 30	99.7	98.6	50 - 150	
Chlorfenapyr	0.000	2.013	2.250	2.000	11.1	< 30	100.7	112.5	50 - 150	
Chlorpyrifos	0.000	0.365	0.357	0.400	2.1	< 30	91.2	89.3	50 - 150	
Clofentezine	0.008	0.297	0.290	0.400	2.6	< 30	72.4	70.5	50 - 150	
Cyfluthrin	0.086	1.669	1.698	2.000	1.7	< 30	79.1	80.6	30 - 150	
Cypermethrin	0.000	1.901	1.815	2.000	4.6	< 30	95.0	90.8	50 - 150	
Daminozide	0.064	0.648	0.674	2.000	3.9	< 30	29.2	30.5	30 - 150	Q
Diazinon	0.008	0.388	0.375	0.400	3.6	< 30	95.0	91.5	50 - 150	
Dichlorvos	0.047	1.873	1.906	2.000	1.8	< 30	91.3	93.0	50 - 150	
Dimethoat	0.024	0.352	0.344	0.400	2.2	< 30	81.8	80.0	50 - 150	
Ethoprophos	0.003	0.383	0.386	0.400	0.8	< 30	95.0	95.7	50 - 150	
Etofenprox	0.011	0.757	0.746	0.800	1.4	< 30	93.2	91.9	50 - 150	
Etoxazol	0.000	0.361	0.354	0.400	1.7	< 30	90.1	88.6	50 - 150	
Fenoxycarb	0.000	0.390	0.390	0.400	0.1	< 30	97.5	97.4	50 - 150	
Fenproximat	0.024	0.774	0.786	0.800	1.5	< 30	93.8	95.2	50 - 150	
Fipronil	0.000	0.846	0.806	0.800	4.8	< 30	105.7	100.8	50 - 150	
Fonicamid	0.000	0.978	0.979	1.000	0.1	< 30	97.8	97.9	50 - 150	
Fludioxonil	0.000	0.679	0.701	0.800	3.3	< 30	84.8	87.7	50 - 150	
Hexythiazox	0.000	0.853	0.837	1.000	1.9	< 30	85.3	83.7	50 - 150	
Imazalil	0.000	0.369	0.368	0.400	0.2	< 30	92.1	92.0	50 - 150	
Imidacloprid	0.000	0.741	0.723	0.800	2.5	< 30	92.7	90.4	50 - 150	
Kresoxim-Methyl	0.029	0.731	0.754	0.800	3.1	< 30	87.8	90.7	50 - 150	
Malathion	0.015	0.389	0.381	0.400	2.1	< 30	93.5	91.5	50 - 150	
Metaxyl	0.002	0.380	0.381	0.400	0.3	< 30	94.5	94.7	50 - 150	
Methiocarb	0.023	0.347	0.380	0.400	9.1	< 30	81.0	89.3	50 - 150	
Methomyl	0.000	0.826	0.784	0.800	5.2	< 30	103.2	98.0	50 - 150	
MKG 264	0.003	0.400	0.389	0.400	2.8	< 30	99.2	96.5	50 - 150	
Myclobutanil	0.023	0.372	0.369	0.400	0.7	< 30	87.3	86.6	50 - 150	
Naled	0.000	0.787	0.849	1.000	7.6	< 30	78.7	84.9	50 - 150	
Oxamyl	0.000	1.980	2.016	2.000	1.8	< 30	99.0	100.8	50 - 150	
Paclbutrazol	0.000	0.740	0.780	0.800	5.3	< 30	92.5	97.6	50 - 150	
Parathion Methyl	0.055	0.865	0.834	0.800	3.7	< 30	101.3	97.3	30 - 150	
Permethrin	0.008	0.375	0.369	0.400	1.5	< 30	91.6	90.2	50 - 150	
Phosmet	0.008	0.395	0.398	0.400	0.9	< 30	96.8	97.7	50 - 150	
Piperonyl butoxide	0.065	1.943	1.807	2.000	7.3	< 30	93.9	87.1	50 - 150	
Prallethrin	0.000	0.986	0.932	0.800	5.6	< 30	123.2	116.5	50 - 150	
Propiconazole	0.005	0.739	0.754	0.800	2.0	< 30	91.7	93.6	50 - 150	
Propoxur	0.015	0.375	0.379	0.400	1.2	< 30	90.0	91.2	50 - 150	
Pyrethrins	0.000	0.272	0.268	0.284	1.6	< 30	95.9	94.4	50 - 150	
Pyridaben	0.000	0.439	0.427	0.400	2.9	< 30	109.8	106.7	50 - 150	
Spinosad	0.000	0.383	0.376	0.388	2.0	< 30	98.7	96.8	50 - 150	
Spiromesifen	0.000	0.477	0.439	0.400	8.4	< 30	119.3	109.7	50 - 150	
Spirotetramat	0.009	0.362	0.355	0.400	1.9	< 30	88.1	86.4	50 - 150	
Spiroxamine	0.000	0.754	0.755	0.800	0.1	< 30	94.3	94.3	50 - 150	
Tebuconazol	0.020	0.770	0.755	0.800	2.1	< 30	93.8	91.8	50 - 150	
Thiacloprid	0.016	0.371	0.363	0.400	2.2	< 30	88.8	86.8	50 - 150	
Thiamethoxam	0.014	0.388	0.387	0.400	0.2	< 30	93.4	93.2	50 - 150	
Trifloxystrobin	0.000	0.369	0.358	0.400	2.0	< 30	92.2	89.4	50 - 150	

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Pixis quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be kept a maximum of 15 days from the report date unless prior arrangements have been made.



Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 1907998**

Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits			Evaluation	Notes
CBDV-A	0.00982		0.01	%	98.2	85	-	115	Acceptable
CBDV	0.0104		0.01	%	104	85	-	115	Acceptable
CBD-A	0.00951		0.01	%	95.1	85	-	115	Acceptable
CBG-A	0.00974		0.01	%	97.4	85	-	115	Acceptable
CBG	0.00992		0.01	%	99.2	85	-	115	Acceptable
CBD	0.0101		0.01	%	101	85	-	115	Acceptable
THCV	0.0101		0.01	%	101	85	-	115	Acceptable
THCVA	0.0100		0.01	%	100	85	-	115	Acceptable
CBN	0.0102		0.01	%	102	85	-	115	Acceptable
THC	0.0107		0.01	%	107	85	-	115	Acceptable
D8THC	0.00948		0.01	%	94.8	85	-	115	Acceptable
CBL	0.00989		0.01	%	98.9	85	-	115	Acceptable
CBC	0.00995		0.01	%	99.5	85	-	115	Acceptable
THCA	0.0105		0.01	%	105	85	-	115	Acceptable
CBCA	0.00909		0.01	%	90.9	85	-	115	Acceptable

Method Blank

Analyte	Result	LOQ	Units	Limits			Evaluation	Notes
CBDV-A	ND	0.003	%	< 0.003			Acceptable	
CBDV	ND	0.003	%	< 0.003			Acceptable	
CBD-A	ND	0.003	%	< 0.003			Acceptable	
CBG-A	ND	0.003	%	< 0.003			Acceptable	
CBG	ND	0.003	%	< 0.003			Acceptable	
CBD	ND	0.003	%	< 0.003			Acceptable	
THCV	ND	0.003	%	< 0.003			Acceptable	
THCVA	ND	0.003	%	< 0.003			Acceptable	
CBN	ND	0.003	%	< 0.003			Acceptable	
THC	ND	0.003	%	< 0.003			Acceptable	
D8THC	ND	0.003	%	< 0.003			Acceptable	
CBL	ND	0.003	%	< 0.003			Acceptable	
CBC	ND	0.003	%	< 0.003			Acceptable	
THCA	ND	0.003	%	< 0.003			Acceptable	
CBCA	ND	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



J AOAC 2015 V98-6		Batch ID: 1907998						
Sample Duplicate		Sample ID: 19-010318-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBDV	ND	ND	0.003	%	0	< 20	Acceptable	
CBD-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG	0.00345	0.00349	0.003	%	1.15	< 20	Acceptable	
CBD	ND	ND	0.003	%	0	< 20	Acceptable	
THCV	ND	ND	0.003	%	0	< 20	Acceptable	
THCVA	ND	ND	0.003	%	0	< 20	Acceptable	
CBN	ND	ND	0.003	%	0	< 20	Acceptable	
THC	0.180	0.182	0.003	%	1.10	< 20	Acceptable	
D8THC	ND	ND	0.003	%	0	< 20	Acceptable	
CBL	ND	ND	0.003	%	0	< 20	Acceptable	
CBC	ND	0.00325	0.003	%	NA	< 20	Acceptable	R2
THCA	ND	ND	0.003	%	0	< 20	Acceptable	
CBCA	ND	ND	0.003	%	0	< 20	Acceptable	

Abbreviations

R2 - Sample replicates RPD non-calculable, as only one replicate is within analytical range.
 ND - None Detected at or above MRL
 RPD - Relative Percent Difference
 LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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.