



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



Report Number: 22-012327/D002.R000
Report Date: 10/19/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/12/22 10:46

Customer: NW Natural Goods
Product identity: HEMP - LM 0068
Client/Metric ID: .
Laboratory ID: 22-012327-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.210		mg/4g		CBD-Total per Serving Size 23.3 mg/4g
CBD per 4g	23.3		mg/4g		
CBG per 4g	0.668		mg/4g		THC-Total per Serving Size <LOQ
					(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.



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Customer: NW Natural Goods

Product identity: HEMP - LM 0068

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-012327-0001

Evidence of Cooling: No

Temp: 20.01 °C

Relinquished by: ramos

Serving Size #1: 4 g

Sample Results

Potency per 4g					
Method: J AOAC 2015 V98-6 (mod) ^b					
Units mg/se Batch: 2208770 Analyze: 10/14/22 3:01:00 AM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	0.210		mg/4g	0.130	
CBC-A per 4g	< LOQ		mg/4g	0.130	
CBC-Total per 4g	< LOQ		mg/4g	0.245	
CBD per 4g	23.3		mg/4g	0.130	
CBD-A per 4g	< LOQ		mg/4g	0.130	
CBD-Total per 4g	23.3		mg/4g	0.245	
CBDV per 4g	< LOQ		mg/4g	0.130	
CBDV-A per 4g	< LOQ		mg/4g	0.130	
CBDV-Total per 4g	< LOQ		mg/4g	0.244	
CBE per 4g	< LOQ		mg/4g	0.130	
CBG per 4g	0.668		mg/4g	0.130	
CBG-A per 4g	< LOQ		mg/4g	0.130	
CBG-Total per 4g	0.668		mg/4g	0.244	
CBL per 4g	< LOQ		mg/4g	0.130	
CBL-A per 4g	< LOQ		mg/4g	0.130	
CBL-Total per 4g	< LOQ		mg/4g	0.245	
CBN per 4g	< LOQ		mg/4g	0.130	
CBT per 4g	< LOQ		mg/4g	0.130	
Δ8-THCV per 4g	< LOQ		mg/4g	0.130	
Δ10-THC per 4g	< LOQ		mg/4g	0.130	
Δ8-THC per 4g	< LOQ		mg/4g	0.130	
Δ9-THC per 4g	< LOQ		mg/4g	0.130	
exo-THC per 4g	< LOQ		mg/4g	0.130	
THC-A per 4g	< LOQ		mg/4g	0.130	
THC-Total per 4g	< LOQ		mg/4g	0.245	
THCV per 4g	< LOQ		mg/4g	0.130	
THCV-A per 4g	< LOQ		mg/4g	0.130	
THCV-Total per 4g	< LOQ		mg/4g	0.245	
Total Cannabinoids per 4g	24.2		mg/4g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2208690	10/15/22 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2208690	10/15/22 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2208691	10/16/22 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2208691	10/16/22 AOAC 2014.05 (RAPID) ^P		

Solvents Method: Residual Solvents by GC/MS^P Units µg/g Batch 2208815 Analyze 10/17/22 12:33 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)^b Units mg/kg Batch 2208818 Analyze 10/17/22 01:18 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		Etoazole [¥]	< LOQ	0.20	0.100	pass	
Fenoxycarb [¥]	< LOQ	0.20	0.100	pass		Fenpyroximate [¥]	< LOQ	0.40	0.200	pass	
Fipronil [¥]	< LOQ	0.40	0.200	pass		Flonicamid [¥]	< LOQ	1.0	0.400	pass	
Fludioxonil [¥]	< LOQ	0.40	0.200	pass		Hexythiazox [¥]	< LOQ	1.0	0.400	pass	
Imazalil [¥]	< LOQ	0.20	0.100	pass		Imidacloprid [¥]	< LOQ	0.40	0.200	pass	
Kresoxim-methyl [¥]	< LOQ	0.40	0.200	pass		Malathion [¥]	< LOQ	0.20	0.100	pass	
Metalaxyl [¥]	< LOQ	0.20	0.100	pass		Methiocarb [¥]	< LOQ	0.20	0.100	pass	
Methomyl [¥]	< LOQ	0.40	0.200	pass		MGK-264 [¥]	< LOQ	0.20	0.100	pass	
Myclobutanil [¥]	< LOQ	0.20	0.100	pass		Naled [¥]	< LOQ	0.50	0.250	pass	
Oxamyl [¥]	< LOQ	1.0	0.500	pass		Paclobutrazole [¥]	< LOQ	0.40	0.200	pass	
Parathion-Methyl [¥]	< LOQ	0.20	0.200	pass		Permethrin [¥]	< LOQ	0.20	0.100	pass	
Phosmet [¥]	< LOQ	0.20	0.100	pass		Piperonyl butoxide [¥]	< LOQ	2.0	1.00	pass	
Prallethrin [¥]	< LOQ	0.20	0.200	pass		Propiconazole [¥]	< LOQ	0.40	0.200	pass	
Propoxur [¥]	< LOQ	0.20	0.100	pass		Pyrethrin I (total) [¥]	< LOQ	1.0	0.500	pass	
Pyridaben [¥]	< LOQ	0.20	0.100	pass		Spinosad [¥]	< LOQ	0.20	0.100	pass	
Spiromesifen [¥]	< LOQ	0.20	0.100	pass		Spirotetramat [¥]	< LOQ	0.20	0.100	pass	
Spiroxamine [¥]	< LOQ	0.40	0.200	pass		Tebuconazole [¥]	< LOQ	0.40	0.200	pass	
Thiacloprid [¥]	< LOQ	0.20	0.100	pass		Thiamethoxam [¥]	< LOQ	0.20	0.100	pass	
Trifloxystrobin [¥]	< LOQ	0.20	0.100	pass							

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0175	2208810	10/14/22 AOAC 2013.06 (mod.) ^p	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0175	2208810	10/14/22 AOAC 2013.06 (mod.) ^p	pass	
Lead	< LOQ	0.500	mg/kg	0.0175	2208810	10/14/22 AOAC 2013.06 (mod.) ^p	pass	
Mercury	< LOQ	0.100	mg/kg	0.00876	2208810	10/14/22 AOAC 2013.06 (mod.) ^p	pass	

Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	17.2		g/100g	0.10	2208878	10/17/22 AOAC 925.10 (mod.) ^p		
Water Activity	0.670		Aw	0.030	2208695	10/13/22 AOAC 978.18 ^p		



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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.

Ⓐ = ISO/IEC 17025:2017 accredited method.

¥ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

g = g

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

Approved Signatory

Derrick Tanner
General Manager



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**Hemp & Cannabis: Usable / Extract / Finished Product
Chain of Custody Record**

ORELAP ID: OR100028 ANAB ISO 17025 ID: AT-1508

Document Control ID: 2832 Revision: 5
Effective: 01/04/2022

Company: Northwest Natural Goods Contact: Annie Nair Address: 11791 SE HWY 212 City: Clackamas State: OR Zip Code: 97015 <input checked="" type="checkbox"/> Email Results: annienair@nwnaturalgoods.com <input type="checkbox"/> Ph: () - <i>Billing Contact (if different)</i> Name: Email: Address: City: State: Zip: Ph: () -			Analysis Requested Pesticides - OR 59 Compounds Pesticide Multi-Residue - 379 compounds Potency Residual Solvents Water Activity Moisture Micro: Yeast and Mold Micro: E.Coli and Total Coliform Heavy Metals Mycotoxins										PO Number: Project ID: Batch ID: Sampled by: Custom Reporting: Source Material: <input type="checkbox"/> - Ind. Hemp product <input type="checkbox"/> - Rec. Cannabis Reporting Type: <input type="checkbox"/> - Compliance <input type="checkbox"/> - R&D Report to: <input type="checkbox"/> - METRC <input type="checkbox"/> - ODA <input type="checkbox"/> - USDA <input type="checkbox"/> - Other: Turnaround time (TAT - Business Days): <input checked="" type="checkbox"/> - 5BD <input type="checkbox"/> - 3BD* <input type="checkbox"/> - 2BD* <i>*Check for availability</i>		
Lab ID	Client Sample Identification	Sample date											Material Type †	Weight (Units)	Comments/Metric ID
	HEMP - LM 0068	10/12/22	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		80g	
Signature - Relinquished By:			Date	Time	Signature - Received By:			Date	Time	Lab Use Only:					
Annie Nair			10/12/22	1046				10.12	1046	<input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> Yes <input type="checkbox"/> No - Temp (°C): <u>20.01</u> Sample in good condition: <input type="checkbox"/> Yes <input type="checkbox"/> No Payment: <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: _____ Prelog storage: _____					
			10.12	1113				10/12/22	1152AM						

† - Material Type Codes: Plant Material (P) ; Isolate (I) ; Concentrate/Extract (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B) ; Vapor Product (V)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of service](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms
 12423 NE Whitaker Way
Portland, OR 97230
 P: (503) 254-1794 | Fax: (503) 254-1452
 info@columbiaboratories.com
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Report Number: 22-012327/D002.R000
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Revision: 1 Document ID: 7148
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V98-6 Batch ID: 2208770

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0380	0.034	%	110	80.0	- 120	Acceptable	
CBDV	2	0.0402	0.037	%	110	80.0	- 120	Acceptable	
CBE	2	0.0383	0.035	%	110	80.0	- 120	Acceptable	
CBDA	1	0.0324	0.033	%	96.7	90.0	- 110	Acceptable	
CBGA	1	0.0327	0.034	%	97.3	80.0	- 120	Acceptable	
CBG	1	0.0337	0.034	%	98.2	80.0	- 120	Acceptable	
CBD	1	0.0333	0.034	%	97.4	90.0	- 110	Acceptable	
THCV	2	0.0399	0.038	%	106	80.0	- 120	Acceptable	
d8THCV	2	0.0397	0.037	%	108	80.0	- 120	Acceptable	
THCVA	2	0.0365	0.034	%	109	80.0	- 120	Acceptable	
CBN	1	0.0329	0.034	%	97.5	90.0	- 110	Acceptable	
exo-THC	2	0.0352	0.034	%	103	80.0	- 120	Acceptable	
d9THC	1	0.0336	0.035	%	97.4	90.0	- 110	Acceptable	
d8THC	1	0.0334	0.033	%	99.9	90.0	- 110	Acceptable	
CBL	2	0.0332	0.033	%	101	80.0	- 120	Acceptable	
d10THC	1	0.0298	0.032	%	93.4	80.0	- 120	Acceptable	
CBC	2	0.0369	0.036	%	102	80.0	- 120	Acceptable	
THCA	1	0.0332	0.033	%	100	90.0	- 110	Acceptable	
CBCA	2	0.0379	0.035	%	108	80.0	- 120	Acceptable	
CBLA	2	0.0194	0.019	%	104	80.0	- 120	Acceptable	
CBT	2	0.0334	0.037	%	89.8	80.0	- 120	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			
d10THC	<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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Laboratory Quality Control Results

JACAC2015 V98-6		Batch ID: 2208770						
Sample Duplicate		Sample ID: 22-011372-0002-01						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0032	0.0033	0.003	%	3.49	< 20	Acceptable	
CBD	0.289	0.297	0.003	%	2.99	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.0442	0.0460	0.003	%	4.00	< 20	Acceptable	
d8THC	0.0088	0.0091	0.003	%	3.72	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d10THC	<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

Units of Measure:



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Revision: 2 Document ID: 7087
 Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2208815					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		641	572	µg/g	112.1	60 - 120	
Isobutane	ND	< 200		870	731	µg/g	119.0	60 - 120	
Butane	ND	< 200		849	731	µg/g	116.1	60 - 120	
2,2-Dimethylpropane	ND	< 200		1190	936	µg/g	127.1	60 - 120	Q1
Methanol	ND	< 200		1650	1650	µg/g	100.0	60 - 120	
Ethylene Oxide	ND	< 30		62.4	56.2	µg/g	111.0	60 - 120	
2-Methylbutane	ND	< 200		1580	1650	µg/g	95.8	60 - 120	
Pentane	ND	< 200		1600	1650	µg/g	97.0	60 - 120	
Ethanol	ND	< 200		1720	1660	µg/g	103.6	70 - 130	
Ethyl Ether	ND	< 200		1640	1630	µg/g	100.6	60 - 120	
2,2-Dimethylbutane	ND	< 30		180	189	µg/g	95.2	60 - 120	
Acetone	ND	< 200		1630	1650	µg/g	98.8	60 - 120	
2-Propanol	ND	< 200		1880	1650	µg/g	113.9	60 - 120	
Ethyl Formate	ND	< 500		1550	1610	µg/g	96.3	70 - 130	
Acetonitrile	ND	< 100		576	504	µg/g	114.3	60 - 120	
Methyl Acetate	ND	< 500		1850	1630	µg/g	113.5	70 - 130	
2,3-Dimethylbutane	ND	< 30		170	174	µg/g	97.7	60 - 120	
Dichloromethane	ND	< 60		521	521	µg/g	100.0	60 - 120	
2-Methylpentane	ND	< 30		189	187	µg/g	101.1	60 - 120	
MTBE	ND	< 500		1770	1600	µg/g	110.6	70 - 130	
3-Methylpentane	ND	< 30		191	188	µg/g	101.6	60 - 120	
Hexane	ND	< 30		193	182	µg/g	106.0	60 - 120	
1-Propanol	ND	< 500		1740	1610	µg/g	108.1	70 - 130	
Methylethylketone	ND	< 500		1810	1600	µg/g	113.1	70 - 130	
Ethyl acetate	ND	< 200		1800	1630	µg/g	110.4	60 - 120	
2-Butanol	ND	< 200		1830	1630	µg/g	112.3	60 - 120	
Tetrahydrofuran	ND	< 100		528	506	µg/g	104.3	60 - 120	
Cyclohexane	ND	< 200		1720	1640	µg/g	104.9	60 - 120	
2-methyl-1-propanol	ND	< 500		1720	1620	µg/g	106.2	70 - 130	
Benzene	ND	< 1		5.11	4.93	µg/g	103.7	60 - 120	
Isopropyl Acetate	ND	< 200		1830	1640	µg/g	111.6	60 - 120	
Heptane	ND	< 200		1640	1630	µg/g	100.6	60 - 120	
1-Butanol	ND	< 500		1670	1600	µg/g	104.4	70 - 130	
Propyl Acetate	ND	< 500		1820	1620	µg/g	112.3	70 - 130	
1,4-Dioxane	ND	< 100		520	493	µg/g	105.5	60 - 120	
2-Ethoxyethanol	ND	< 30		183	171	µg/g	107.0	60 - 120	
Methylisobutylketone	ND	< 500		1700	1620	µg/g	104.9	70 - 130	
3-Methyl-1-butanol	ND	< 500		1690	1610	µg/g	105.0	70 - 130	
Ethylene Glycol	ND	< 200		459	494	µg/g	92.9	60 - 120	
Toluene	ND	< 100		517	506	µg/g	102.2	60 - 120	
Isobutyl Acetate	ND	< 500		1700	1620	µg/g	104.9	70 - 130	
1-Pentanol	ND	< 500		1550	1610	µg/g	96.3	70 - 130	
Butyl Acetate	ND	< 500		1600	1610	µg/g	99.4	70 - 130	
Ethylbenzene	ND	< 200		1030	996	µg/g	103.4	60 - 120	
m,p-Xylene	ND	< 200		1050	1010	µg/g	104.0	60 - 120	
o-Xylene	ND	< 200		989	979	µg/g	101.0	60 - 120	
Cumene	ND	< 30		186	188	µg/g	98.9	60 - 120	
Anisole	ND	< 500		1560	1610	µg/g	96.9	70 - 130	
DMSO	ND	< 500		1490	1600	µg/g	93.1	70 - 130	
1,2-dimethoxyethane	ND	< 50		207	190	µg/g	108.9	70 - 130	
Triethylamine	ND	< 500		1660	1610	µg/g	103.1	70 - 130	
N,N-dimethylformamide	ND	< 150		459	496	µg/g	92.5	70 - 130	
N,N-dimethylacetamide	ND	< 150		477	483	µg/g	98.8	70 - 130	
Pyridine	ND	< 50		163	167	µg/g	97.6	70 - 130	
Sulfone	ND	< 50		140	161	µg/g	87.0	70 - 130	
1,2-Dichloroethane	ND	< 1		1.16	1	µg/g	116.0	70 - 130	
Chloroform	ND	< 1		1.17	1	µg/g	117.0	70 - 130	
Trichloroethylene	ND	< 1		1.17	1	µg/g	117.0	70 - 130	
1,1-Dichloroethane	ND	< 1		1.14	1	µg/g	114.0	70 - 130	



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QC - Sample Duplicate		Sample ID: 22-011957-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
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	100	µg/g	0.0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Sulfolane	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	
1,1-Dichloroethane	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
 Q1 - Quality control result biased high. Only non-detect samples reported.

Units of Measure:

µg/g - Microgram per gram or ppm



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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg			Batch ID 2208818			
Method Bank	Laboratory Control Sample							
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spk	LCS% Re	Limits	Notes
Abamectin	0.000	< 0.250		0.800	1.000	80.0	50.0	150
Acephate	0.000	< 0.250		0.932	1.000	93.2	60.0	120
Acetaminocyl	0.000	< 1.000		3.041	4.000	76.0	40.0	160
Acetamiprid	0.000	< 0.100		0.354	0.400	88.5	60.0	120
Aldicarb	0.000	< 0.200		0.730	0.800	91.3	60.0	120
Azoxystrobin	0.000	< 0.100		0.301	0.400	75.3	60.0	120
Bifenazate	0.000	< 0.100		0.308	0.400	76.9	60.0	120
Bifenthrin	0.000	< 0.100		0.356	0.400	88.9	50.0	150
Boscalid	0.000	< 0.200		0.563	0.800	70.4	60.0	120
Carbaryl	0.000	< 0.100		0.378	0.400	94.5	60.0	120
Carbofuran	0.000	< 0.100		0.376	0.400	93.9	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.270	0.400	67.4	60.0	120
Chlorfenapyr	0.000	< 0.500		1.516	2.000	75.8	60.0	120
Chlorpyrifos	0.000	< 0.100		0.306	0.400	76.6	60.0	120
Clofentazine	0.000	< 0.100		0.035	0.400	8.6	60.0	120
Cyfluthrin	0.000	< 0.500		1.782	2.000	89.1	50.0	150
Cypermethrin	0.000	< 0.500		1.698	2.000	84.9	50.0	150
Daminozide	0.000	< 0.500		0.756	2.000	37.8	60.0	120
Diazinon	0.000	< 0.100		0.318	0.400	79.6	60.0	120
Dichlorvos	0.000	< 0.500		1.933	2.000	96.6	60.0	120
Dimethoate	0.000	< 0.100		0.378	0.400	94.6	60.0	120
Ethoprophos	0.000	< 0.100		0.359	0.400	89.7	60.0	120
Etofenprox	0.000	< 0.200		0.709	0.800	88.7	50.0	150
Etoxazole	0.000	< 0.100		0.315	0.400	78.8	60.0	120
Fenoxycarb	0.000	< 0.100		0.294	0.400	73.5	60.0	120
Fenpyroximate	0.000	< 0.200		0.639	0.800	79.8	60.0	120
Fipronil	0.000	< 0.200		0.547	0.800	68.4	60.0	120
Fonicamid	0.000	< 0.250		0.833	1.000	83.3	60.0	120
Fludioxonil	0.000	< 0.200		0.737	0.800	92.2	50.0	150
Hexythiazox	0.000	< 0.250		0.751	1.000	75.1	60.0	120
Imazalil	0.000	< 0.100		0.325	0.400	81.3	60.0	120
Imidacloprid	0.000	< 0.200		0.625	0.800	78.1	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.641	0.800	80.2	60.0	120
Malathion	0.000	< 0.100		0.332	0.400	82.9	60.0	120
Metaxalyl	0.000	< 0.100		0.350	0.400	87.4	60.0	120
Methiocarb	0.000	< 0.100		0.352	0.400	88.0	60.0	120
Methomyl	0.000	< 0.200		0.693	0.800	86.6	60.0	120
MGK-264	0.000	< 0.100		0.295	0.400	73.7	50.0	150
Myclobutanil	0.000	< 0.100		0.297	0.400	74.2	60.0	120
Naled	0.000	< 0.250		0.684	1.000	68.4	50.0	150
Oxamyl	0.000	< 0.500		1.401	2.000	70.1	60.0	120
Paclbutrazole	0.000	< 0.200		0.586	0.800	73.2	60.0	120
Parathion-Methyl	0.000	< 0.200		0.618	0.800	77.3	50.0	150
Permethrin	0.000	< 0.100		0.350	0.400	87.5	50.0	150
Phosmet	0.000	< 0.100		0.317	0.400	79.3	50.0	150
Piperonyl butoxide	0.000	< 0.500		1.509	2.000	75.4	60.0	120
Prallethrin	0.000	< 0.100		0.281	0.400	70.2	60.0	120
Propiconazole	0.000	< 0.200		0.576	0.800	72.0	60.0	120
Propoxur	0.000	< 0.100		0.385	0.400	96.1	60.0	120
Pyrethrin (Summe)	0.000	< 0.100		0.296	0.413	71.7	60.0	120
Pyridaben	0.000	< 0.100		0.322	0.400	80.5	50.0	150
Spirosad	0.000	< 0.100		0.293	0.388	75.6	50.0	150
Spiromesifen	0.000	< 0.100		0.333	0.400	83.2	60.0	120
Spirotetramat	0.000	< 0.100		0.272	0.400	67.9	60.0	120
Spiroxamine	0.000	< 0.200		0.634	0.800	79.2	60.0	120
Tebuconazole	0.000	< 0.200		0.596	0.800	74.5	60.0	120
Thiacloprid	0.000	< 0.100		0.349	0.400	87.2	60.0	120
Thiamethoxam	0.000	< 0.100		0.329	0.400	82.3	60.0	120
Trifloxystrobin	0.000	< 0.100		0.299	0.400	74.9	60.0	120

Q6

Q6



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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg					Batch ID 2208818			
Matrix Spke/Matrix Spke Duplicate Recoveries		Sample ID: 220122060001								
Analyte	Result	MS Res	MSD Res	Spike	PPD%	Limit	MS% Re	MSD % Re	Limits	Notes
Abamectin	0.000	0.923	0.957	1.000	3.6%	< 30	92.3%	95.7%	50 - 150	
Acephate	0.000	1.230	1.176	1.000	4.5%	< 30	123.0%	117.6%	50 - 150	
Acetaminopyl	0.000	3.601	3.589	4.000	0.3%	< 30	90.0%	89.7%	50 - 150	
Acetamidrid	0.000	0.470	0.471	0.400	0.2%	< 30	117.6%	117.8%	50 - 150	
Aldicarb	0.000	0.307	0.307	0.800	0.1%	< 30	38.4%	38.3%	50 - 150	Q
Azoxystrobin	0.000	0.432	0.426	0.400	1.5%	< 30	107.9%	106.4%	50 - 150	
Bifenazate	0.000	0.386	0.388	0.400	0.5%	< 30	96.5%	97.0%	50 - 150	
Bifenthrin	0.000	0.371	0.369	0.400	0.4%	< 30	92.6%	92.3%	50 - 150	
Boscalid	0.000	0.698	0.679	0.800	2.7%	< 30	87.2%	84.9%	50 - 150	
Carbaryl	0.000	0.496	0.486	0.400	2.1%	< 30	124.1%	121.5%	50 - 150	
Carbofuran	0.000	0.535	0.537	0.400	0.4%	< 30	133.8%	134.3%	50 - 150	
Chlorantraniliprole	0.000	0.330	0.331	0.400	0.3%	< 30	82.5%	82.7%	50 - 150	
Chlorfenapyr	0.000	1.767	1.869	2.000	5.6%	< 30	88.4%	93.5%	50 - 150	
Chlorpyrifos	0.000	0.376	0.375	0.400	0.4%	< 30	94.0%	93.6%	50 - 150	
Clofentezine	0.000	0.245	0.234	0.400	4.7%	< 30	61.2%	58.4%	50 - 150	
Cyfluthrin	0.000	1.634	1.764	2.000	7.6%	< 30	81.7%	88.2%	30 - 150	
Cypermethrin	0.000	1.697	1.726	2.000	1.7%	< 30	84.9%	86.3%	50 - 150	
Daminozide	0.000	1.353	1.322	2.000	2.3%	< 30	67.6%	66.1%	30 - 150	
Diazinon	0.000	0.433	0.410	0.400	5.5%	< 30	108.3%	102.5%	50 - 150	
Dichlorvos	0.000	2.249	2.228	2.000	1.0%	< 30	112.5%	111.4%	50 - 150	
Dimethoate	0.000	0.438	0.434	0.400	1.0%	< 30	109.5%	108.4%	50 - 150	
Ethoprophos	0.000	0.408	0.406	0.400	0.5%	< 30	102.1%	101.6%	50 - 150	
Etofenprox	0.000	0.804	0.806	0.800	0.3%	< 30	100.5%	100.8%	50 - 150	
Etoxazole	0.000	0.400	0.401	0.400	0.4%	< 30	99.9%	100.3%	50 - 150	
Fenoxycarb	0.000	0.378	0.374	0.400	1.0%	< 30	94.4%	93.5%	50 - 150	
Fenpyroximate	0.000	0.707	0.727	0.800	2.8%	< 30	88.3%	90.9%	50 - 150	
Fipronil	0.000	0.706	0.726	0.800	2.9%	< 30	88.2%	90.8%	50 - 150	
Fonicamid	0.000	0.803	0.806	1.000	0.4%	< 30	80.3%	80.6%	50 - 150	
Fludioxonil	0.000	0.800	0.799	0.800	0.2%	< 30	100.1%	99.8%	50 - 150	
Hexythiazox	0.000	0.954	0.989	1.000	3.6%	< 30	95.4%	98.9%	50 - 150	
Imazalil	0.000	0.455	0.448	0.400	1.5%	< 30	113.8%	112.1%	50 - 150	
Imidacloprid	0.000	0.537	0.542	0.800	0.8%	< 30	67.2%	67.7%	50 - 150	
Kresoxim-methyl	0.000	0.823	0.840	0.800	2.0%	< 30	102.9%	105.0%	50 - 150	
Malathion	0.000	0.427	0.420	0.400	1.7%	< 30	106.8%	105.0%	50 - 150	
Metaxalyl	0.000	0.415	0.419	0.400	1.0%	< 30	103.8%	104.8%	50 - 150	
Methiocarb	0.000	0.407	0.409	0.400	0.5%	< 30	101.8%	102.3%	50 - 150	
Methomyl	0.000	0.785	0.787	0.800	0.3%	< 30	98.1%	98.3%	50 - 150	
MGK-264	0.000	0.369	0.383	0.400	3.7%	< 30	92.2%	95.7%	50 - 150	
Myclobutanil	0.000	0.360	0.368	0.400	2.1%	< 30	90.0%	92.0%	50 - 150	
Naled	0.000	1.031	1.036	1.000	0.5%	< 30	103.1%	103.6%	50 - 150	
Oxamyl	0.000	1.847	1.912	2.000	3.4%	< 30	92.4%	95.6%	50 - 150	
Pacllobutrazole	0.000	0.751	0.748	0.800	0.4%	< 30	93.8%	93.5%	50 - 150	
Parathion-Methyl	0.000	0.941	0.911	0.800	3.3%	< 30	117.7%	113.8%	30 - 150	
Permethrin	0.000	0.357	0.354	0.400	0.8%	< 30	89.2%	88.5%	50 - 150	
Phosmet	0.000	0.378	0.386	0.400	2.2%	< 30	94.4%	96.6%	50 - 150	
Piperonyl butoxide	0.000	1.947	1.905	2.000	2.1%	< 30	97.3%	95.3%	50 - 150	
Prallethrin	0.000	0.367	0.371	0.400	1.0%	< 30	91.7%	92.7%	50 - 150	
Propiconazole	0.000	0.762	0.772	0.800	1.4%	< 30	95.2%	96.5%	50 - 150	
Propoxur	0.000	0.510	0.510	0.400	0.0%	< 30	127.5%	127.6%	50 - 150	
Pyrethrin (Summe)	0.000	0.642	0.646	0.413	0.7%	< 30	155.5%	156.5%	50 - 150	Q
Pyridaben	0.000	0.395	0.406	0.400	2.6%	< 30	98.8%	101.4%	50 - 150	
Spinosad	0.000	0.387	0.399	0.388	3.0%	< 30	99.7%	102.8%	50 - 150	
Spiromesifen	0.000	0.409	0.412	0.400	0.8%	< 30	102.2%	103.0%	50 - 150	
Spirotetramat	0.000	0.340	0.341	0.400	0.3%	< 30	85.0%	85.3%	50 - 150	
Spiroxamine	0.000	0.831	0.813	0.800	2.2%	< 30	103.9%	101.6%	50 - 150	
Tebuconazole	0.000	0.771	0.745	0.800	3.4%	< 30	96.4%	93.2%	50 - 150	
Thiacloprid	0.000	0.161	0.158	0.400	2.0%	< 30	40.3%	39.5%	50 - 150	Q
Thiamethoxam	0.000	0.310	0.325	0.400	4.7%	< 30	77.5%	81.2%	50 - 150	
Trifloxystrobin	0.000	0.362	0.360	0.400	0.7%	< 30	90.6%	90.0%	50 - 150	



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Portland, OR 97230
503-254-1794



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Purchase Order:
Received: 10/12/22 10:46





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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.