



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^B 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		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		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		Pacllobutrazole [‡]	< 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.) ^b	pass			
Cadmium	< LOQ	0.200	mg/kg	0.0175	2208810	10/14/22 AOAC 2013.06 (mod.) ^b	pass			
Lead	< LOQ	0.500	mg/kg	0.0175	2208810	10/14/22 AOAC 2013.06 (mod.) ^b	pass			
Mercury	< LOQ	0.100	mg/kg	0.00876	2208810	10/14/22 AOAC 2013.06 (mod.) ^b	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.) ^b				
Water Activity	0.670		Aw	0.030	2208695	10/13/22 AOAC 978.18 ^b				



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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**

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

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

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	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	Material Type †	Weight (Units)	Comments/Metric ID
	HEMP - LM 0068	10/12/22	✓	✓	✓	✓	✓	✓	✓	✓	✓			80g	
Signature - Relinquished By: Annie Nair Date: 10/12/22 Time: 1046 Signature - Received By: [Signature] Date: 10.12 Time: 1046 Date: 10.12 Time: 1113 Date: 10/12/22 Time: 1152AM			Lab Use Only: <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:												

† - 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 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@columbialaboratories.com
 Page _____ of _____
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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

JAOAC2015 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	



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

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

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



12423 NE Whitaker Way
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503-254-1794



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

Revision: 3 Document ID: 3120
Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

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 Spke	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
Pacllobutrazole	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
Spinosad	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



12423 NE Whitaker Way
Portland, OR 97230
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Report Date: 10/19/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/12/22 10:46

Revision: 3 Document ID: 3120
Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg					Batch ID 2208818			
Matrix Spke/Matrix Spke Duplicate Recoveries	Result	MS Res	MSD Res	Spike	RFD%	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	
Acequinocyl	0.000	3.601	3.589	4.000	0.3%	< 30	90.0%	89.7%	50 - 150	
Acetamiprid	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.