



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



Report Number: 24-003023/D001.R000
Report Date: 03/26/2024
ORELAP#: OR100028
Purchase Order:
Received: 03/19/24 11:11

Customer: NW Natural Goods
Product identity: HEMP - BB 0121
Client/Metric ID: .
Laboratory ID: 24-003023-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.185		mg/4g		CBD-Total per Serving Size 24.6 mg/4g
CBD per 4g	24.6		mg/4g		
CBDV per 4g	0.210		mg/4g		THC-Total per Serving Size <LOQ
CBE per 4g	0.732		mg/4g		(Reported in milligrams per serving)
CBG per 4g	0.148		mg/4g		
CBN per 4g	0.189		mg/4g		
CBT per 4g	0.556		mg/4g		

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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Product identity: HEMP - BB 0121

Client/Metric ID: .

Sample Date:

Laboratory ID: 24-003023-0001

Evidence of Cooling: No

Temp: 17.5

Relinquished by: ramos

Serving Size #1: 4 g

Sample Results

Potency per 4g		Method: J AOAC 2015 V98-6 (mod)		Units mg/se Batch: 2402246		Analyze: 3/21/24 10:25:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 4g	0.185		mg/4g	0.130		
CBC-A per 4g	< LOQ		mg/4g	0.130		
CBC-Total per 4g	< LOQ		mg/4g	0.244		
CBD per 4g	24.6		mg/4g	0.130		
CBD-A per 4g [±]	< LOQ		mg/4g	0.130		
CBD-Total per 4g [±]	24.6		mg/4g	0.244		
CBDV per 4g	0.210		mg/4g	0.130		
CBDV-A per 4g	< LOQ		mg/4g	0.130		
CBDV-Total per 4g	< LOQ		mg/4g	0.243		
CBE per 4g	0.732		mg/4g	0.130		
CBG per 4g	0.148		mg/4g	0.130		
CBG-A per 4g	< LOQ		mg/4g	0.130		
CBG-Total per 4g	< LOQ		mg/4g	0.243		
CBL per 4g	< LOQ		mg/4g	0.130		
CBL-A per 4g	< LOQ		mg/4g	0.130		
CBL-Total per 4g	< LOQ		mg/4g	0.244		
CBN per 4g	0.189		mg/4g	0.130		
CBT per 4g	0.556		mg/4g	0.130		
Δ8-THCV per 4g	< LOQ		mg/4g	0.130		
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.130		
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.130		
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.260		
Δ8-THC per 4g [±]	< LOQ		mg/4g	0.130		
Δ9-THC per 4g [±]	< LOQ		mg/4g	0.130		
delta-9-THCP 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	0.244		
THCV per 4g	< LOQ		mg/4g	0.130		
THCV-A per 4g	< LOQ		mg/4g	0.130		
THCV-Total per 4g	< LOQ		mg/4g	0.244		
Total Cannabinoids per 4g	26.6		mg/4g			

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 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 Columbia Laboratories 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 retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0430



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2402127	03/22/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2402127	03/22/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2402128	03/23/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2402128	03/23/24 AOAC 2014.05 (RAPID)		

Solvents Method: Residual Solvents by GC/MS^b Units µg/g Batch 2402192 Analyze 03/21/24 11:16 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane*	< LOQ	380	100	pass		2-Butanol*	< LOQ	5000	200	pass	
2-Ethoxyethanol*	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)*	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone*	< LOQ	5000	200	pass		Acetonitrile*	< LOQ	410	100	pass	
Benzene*	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane*	< LOQ	3880	200	pass		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 2402207		Analyze 03/21/24 01:50 PM	
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.200	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	0.100	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	Analyzed Method		Status	Notes	
Arsenic [‡]	< LOQ	0.200	mg/kg	0.0195	2402233	03/21/24	AOAC 2013.06 (mod.) ^p	pass		
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0195	2402233	03/21/24	AOAC 2013.06 (mod.) ^p	pass		
Lead [‡]	< LOQ	0.500	mg/kg	0.0195	2402233	03/21/24	AOAC 2013.06 (mod.) ^p	pass		
Mercury [‡]	< LOQ	0.100	mg/kg	0.00974	2402233	03/21/24	AOAC 2013.06 (mod.) ^p	pass		

Nutrition										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes	
Moisture (Loss on Drying)	18.4		g/100g	0.10	2402223	03/21/24	AOAC 925.10 (mod.)			
Water Activity	0.696		Aw	0.030	2402167	03/20/24	AOAC 978.18			



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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2402192					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		525	584	µg/g	89.9	60 - 120	
Isobutane	ND	< 200		656	767	µg/g	85.5	60 - 120	
Butane	ND	< 200		652	782	µg/g	83.4	60 - 120	
2,2-Dimethylpropane	ND	< 200		708	939	µg/g	75.4	60 - 120	
Methanol	ND	< 200		1480	1600	µg/g	92.5	60 - 120	
Ethylene Oxide	ND	< 30		50.9	57.1	µg/g	89.1	60 - 120	
2-Methylbutane	ND	< 200		1530	1600	µg/g	95.6	60 - 120	
Pentane	ND	< 200		1510	1600	µg/g	94.4	60 - 120	
Ethanol	ND	< 200		1580	1600	µg/g	98.8	70 - 130	
Ethyl Ether	ND	< 200		1560	1600	µg/g	97.5	60 - 120	
2,2-Dimethylbutane	ND	< 30		156	163	µg/g	95.7	60 - 120	
Acetone	ND	< 200		1550	1610	µg/g	96.3	60 - 120	
2-Propanol	ND	< 200		1480	1600	µg/g	92.5	60 - 120	
Ethyl Formate	ND	< 500		1290	1620	µg/g	79.6	70 - 130	
Acetonitrile	ND	< 100		454	481	µg/g	94.4	60 - 120	
Methyl Acetate	ND	< 500		1690	1610	µg/g	105.0	70 - 130	
2,3-Dimethylbutane	ND	< 30		143	161	µg/g	88.8	60 - 120	
Dichloromethane	ND	< 60		398	481	µg/g	82.7	60 - 120	
2-Methylpentane	ND	< 30		137	162	µg/g	84.6	60 - 120	
MTBE	ND	< 500		1410	1610	µg/g	87.6	70 - 130	
3-Methylpentane	ND	< 30		132	163	µg/g	81.0	60 - 120	
Hexane	ND	< 30		140	163	µg/g	85.9	60 - 120	
1-Propanol	ND	< 500		1910	1600	µg/g	119.4	70 - 130	
Methylethylketone	ND	< 500		1770	1610	µg/g	109.9	70 - 130	
Ethyl acetate	ND	< 200		1420	1610	µg/g	88.2	60 - 120	
2-Butanol	ND	< 200		1420	1600	µg/g	88.8	60 - 120	
Tetrahydrofuran	ND	< 100		406	487	µg/g	83.4	60 - 120	
Cyclohexane	ND	< 200		1380	1610	µg/g	85.7	60 - 120	
2-methyl-1-propanol	ND	< 500		1390	1610	µg/g	86.3	70 - 130	
Benzene	ND	< 1		3.95	4.88	µg/g	80.9	60 - 120	
Isopropyl Acetate	ND	< 200		1530	1610	µg/g	95.0	60 - 120	
Heptane	ND	< 200		1530	1600	µg/g	95.6	60 - 120	
1-Butanol	ND	< 500		1490	1610	µg/g	92.5	70 - 130	
Propyl Acetate	ND	< 500		1720	1610	µg/g	106.8	70 - 130	
1,4-Dioxane	ND	< 100		398	484	µg/g	82.2	60 - 120	
2-Ethoxyethanol	ND	< 30		148	162	µg/g	91.4	60 - 120	
Methylisobutylketone	ND	< 500		1690	1630	µg/g	103.7	70 - 130	
3-Methyl-1-butanol	ND	< 500		1480	1610	µg/g	91.9	70 - 130	
Ethylene Glycol	ND	< 200		402	496	µg/g	81.0	60 - 120	
Toluene	ND	< 100		403	486	µg/g	82.9	60 - 120	
Isobutyl Acetate	ND	< 500		1690	1610	µg/g	105.0	70 - 130	
1-Pentanol	ND	< 500		1650	1600	µg/g	103.1	70 - 130	
Butyl Acetate	ND	< 500		1660	1600	µg/g	103.8	70 - 130	
Ethylbenzene	ND	< 200		771	961	µg/g	80.2	60 - 120	
m,p-Xylene	ND	< 200		779	973	µg/g	80.1	60 - 120	
o-Xylene	ND	< 200		747	963	µg/g	77.6	60 - 120	
Cumene	ND	< 30		119	164	µg/g	72.6	60 - 120	
Anisole	ND	< 500		1030	1600	µg/g	64.4	70 - 130	Q6
DMSO	ND	< 500		1490	1610	µg/g	92.5	70 - 130	
1,2-dimethoxyethane	ND	< 50		180	170	µg/g	105.9	70 - 130	
Triethylamine	ND	< 500		1110	1600	µg/g	69.4	70 - 130	Q6
N,N-dimethylformamide	ND	< 150		378	482	µg/g	78.4	70 - 130	
N,N-dimethylacetamide	ND	< 150		461	488	µg/g	94.5	70 - 130	
Pyridine	ND	< 50		133	164	µg/g	81.1	70 - 130	
Sulfone	ND	< 50		124	169	µg/g	73.4	70 - 130	
1,2-Dichloroethane	ND	< 1		0.934	1	µg/g	93.4	70 - 130	
Chloroform	ND	< 1		0.875	1	µg/g	87.5	70 - 130	
Trichloroethylene	ND	< 1		0.74	1	µg/g	74.0	70 - 130	
1,1-Dichloroethane	ND	< 1		0.968	1	µg/g	96.8	70 - 130	



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QC - Sample Duplicate		Sample ID: 24-002939-0001						
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

Units of Measure:

µg/g- Microgram per gram or ppm



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



Report Number: 24-003023/D001.R000
Report Date: 03/26/2024
ORELAP#: OR100028
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Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2402207			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.902	1.000	90.2	50.0	150
Acephate	0.000	< 0.200		0.731	0.800	91.4	60.0	120
Acetaminocyl	0.000	< 1.000		3.355	4.000	83.9	40.0	160
Acetamiprid	0.000	< 0.100		0.359	0.400	89.8	60.0	120
Aldicarb	0.000	< 0.200		0.718	0.800	89.8	60.0	120
Azoxystrobin	0.000	< 0.100		0.375	0.400	93.8	60.0	120
Bifenazate	0.000	< 0.100		0.362	0.400	90.6	60.0	120
Bifenthrin	0.000	< 0.100		0.346	0.400	86.5	50.0	150
Boscalid	0.000	< 0.200		0.728	0.800	91.0	60.0	120
Carbaryl	0.000	< 0.100		0.366	0.400	91.5	60.0	120
Carbofuran	0.000	< 0.100		0.364	0.400	91.1	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.377	0.400	94.2	60.0	120
Chlorfenapyr	0.000	< 0.500		1.845	2.000	92.3	60.0	120
Chlorpyrifos	0.000	< 0.100		0.346	0.400	86.4	60.0	120
Clofentazine	0.000	< 0.100		0.344	0.400	85.9	60.0	120
Cyfluthrin	0.000	< 0.500		1.773	2.000	88.6	50.0	150
Cypermethrin	0.000	< 0.500		1.803	2.000	90.1	50.0	150
Daminozide	0.004	< 0.500		0.602	2.000	30.1	60.0	120
Diazinon	0.000	< 0.100		0.371	0.400	92.9	60.0	120
Dichlorvos	0.000	< 0.500		1.837	2.000	91.8	60.0	120
Dimethoate	0.000	< 0.100		0.368	0.400	92.0	60.0	120
Ethoprophos	0.000	< 0.100		0.357	0.400	89.2	60.0	120
Etofenprox	0.000	< 0.200		0.690	0.800	86.3	50.0	150
Etoxazole	0.000	< 0.100		0.374	0.400	93.5	60.0	120
Fenoxycarb	0.000	< 0.100		0.372	0.400	93.1	60.0	120
Fenpyroximate	0.000	< 0.200		0.706	0.800	88.2	60.0	120
Fipronil	0.000	< 0.200		0.736	0.800	92.0	60.0	120
Fonicamid	0.000	< 0.250		0.897	1.000	89.7	60.0	120
Fludioxonil	0.000	< 0.200		0.739	0.800	92.4	50.0	150
Hexythiazox	0.000	< 0.250		0.880	1.000	88.0	60.0	120
Imazalil	0.000	< 0.100		0.361	0.400	90.2	60.0	120
Imidacloprid	0.000	< 0.200		0.692	0.800	86.5	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.731	0.800	91.4	60.0	120
Malathion	0.000	< 0.100		0.355	0.400	88.7	60.0	120
Metaxalyl	0.000	< 0.100		0.372	0.400	93.0	60.0	120
Methiocarb	0.000	< 0.100		0.359	0.400	89.7	60.0	120
Methomyl	0.000	< 0.200		0.747	0.800	93.4	60.0	120
MGK-264	0.000	< 0.100		0.363	0.400	90.7	50.0	150
Myclobutanil	0.000	< 0.100		0.365	0.400	91.2	60.0	120
Naled	0.000	< 0.250		0.903	1.000	90.3	50.0	150
Oxamyl	0.000	< 0.500		1.715	2.000	85.8	60.0	120
Paclotrazole	0.000	< 0.200		0.711	0.800	88.9	60.0	120
Parathion-Methyl	0.000	< 0.100		0.383	0.400	95.7	50.0	150
Permethrin	0.000	< 0.100		0.356	0.400	89.0	50.0	150
Phosmet	0.000	< 0.100		0.367	0.400	91.9	50.0	150
Piperonyl butoxide	0.000	< 0.500		1.809	2.000	90.4	60.0	120
Prallethrin	0.000	< 0.100		0.369	0.400	92.3	60.0	120
Propiconazole	0.000	< 0.200		0.721	0.800	90.1	60.0	120
Propoxur	0.000	< 0.100		0.356	0.400	88.9	60.0	120
Pyrethrin (Summe)	0.000	< 0.100		0.439	0.488	89.9	60.0	120
Pyridaben	0.000	< 0.100		0.362	0.400	90.4	50.0	150
Spinosad	0.000	< 0.100		0.356	0.388	91.9	50.0	150
Spiromesifen	0.000	< 0.100		0.370	0.400	92.4	60.0	120
Spirotetramat	0.000	< 0.100		0.362	0.400	90.5	60.0	120
Spiroxamine	0.000	< 0.200		0.727	0.800	90.9	60.0	120
Tebuconazole	0.000	< 0.200		0.716	0.800	89.5	60.0	120
Thiacloprid	0.000	< 0.100		0.360	0.400	90.0	60.0	120
Thiamethoxam	0.000	< 0.100		0.371	0.400	92.7	60.0	120
Trifloxystrobin	0.000	< 0.100		0.364	0.400	91.0	60.0	120

Q7



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



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

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg				Batch ID: 2402207				
Matrix Spike/Matrix Spike Duplicate Recoveries					Sample ID: 24-002939-0002					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.891	0.896	1.000	0.6%	< 30	89.1%	89.6%	50 - 150	
Acephate	0.206	0.765	0.731	0.800	6.4%	< 30	69.9%	65.5%	50 - 150	
Acetamiprid	0.000	4.155	3.841	4.000	7.9%	< 30	103.9%	96.0%	50 - 150	
Acetamiprid	0.000	0.385	0.395	0.400	2.6%	< 30	96.2%	98.8%	50 - 150	
Aldicarb	0.000	0.718	0.732	0.800	1.9%	< 30	89.7%	91.5%	50 - 150	
Azoxystrobin	0.000	0.366	0.358	0.400	2.2%	< 30	91.4%	89.4%	50 - 150	
Bifenazate	0.000	0.360	0.372	0.400	3.2%	< 30	90.0%	92.9%	50 - 150	
Bifenthrin	0.000	0.357	0.349	0.400	2.1%	< 30	89.1%	87.3%	50 - 150	
Boscalid	0.000	0.710	0.720	0.800	1.5%	< 30	88.7%	90.0%	50 - 150	
Carbaryl	0.000	0.371	0.372	0.400	0.2%	< 30	92.8%	92.9%	50 - 150	
Carbofuran	0.000	0.358	0.375	0.400	4.8%	< 30	89.4%	93.8%	50 - 150	
Chlorantraniliprole	0.000	0.353	0.357	0.400	1.0%	< 30	88.3%	89.2%	50 - 150	
Chlorfenapyr	0.000	1.662	1.811	2.000	8.5%	< 30	83.1%	90.5%	50 - 150	
Chlorpyrifos	0.000	0.324	0.320	0.400	1.2%	< 30	80.9%	80.0%	50 - 150	
Clofentazine	0.000	0.319	0.343	0.400	7.2%	< 30	79.8%	85.8%	50 - 150	
Cyfluthrin	0.000	1.787	1.796	2.000	0.5%	< 30	89.4%	89.8%	30 - 150	
Cypermethrin	0.000	2.028	2.028	2.000	0.0%	< 30	101.4%	101.4%	50 - 150	
Daminozide	0.003	0.605	0.606	2.000	0.0%	< 30	30.1%	30.1%	30 - 150	
Diazinon	0.000	0.365	0.367	0.400	0.6%	< 30	91.2%	91.7%	50 - 150	
Dichlorvos	0.000	1.787	1.852	2.000	3.6%	< 30	89.4%	92.6%	50 - 150	
Dimethoate	0.000	0.369	0.369	0.400	0.0%	< 30	92.3%	92.3%	50 - 150	
Ethoprophos	0.000	0.352	0.354	0.400	0.5%	< 30	88.0%	88.4%	50 - 150	
Etofenprox	0.000	0.723	0.700	0.800	3.2%	< 30	90.4%	87.5%	50 - 150	
Etoxazole	0.000	0.358	0.351	0.400	2.1%	< 30	89.6%	87.8%	50 - 150	
Fenoxycarb	0.000	0.359	0.357	0.400	0.6%	< 30	89.7%	89.2%	50 - 150	
Fenpyroximate	0.000	0.696	0.695	0.800	0.2%	< 30	87.0%	86.9%	50 - 150	
Fipronil	0.000	0.720	0.719	0.800	0.2%	< 30	90.0%	89.8%	50 - 150	
Fonicamid	0.000	0.917	0.827	1.000	10.2%	< 30	91.7%	82.7%	50 - 150	
Fludioxonil	0.000	0.738	0.736	0.800	0.4%	< 30	92.3%	91.9%	50 - 150	
Hexythiazox	0.000	1.422	1.421	1.000	0.0%	< 30	142.2%	142.1%	50 - 150	
Imazalil	0.000	0.364	0.370	0.400	1.7%	< 30	91.0%	92.6%	50 - 150	
Imidacloprid	0.000	0.642	0.631	0.800	1.7%	< 30	80.2%	78.9%	50 - 150	
Kresoxim-methyl	0.000	0.700	0.717	0.800	2.4%	< 30	87.5%	89.6%	50 - 150	
Malathion	0.000	0.352	0.349	0.400	0.8%	< 30	88.1%	87.4%	50 - 150	
Metaxalyl	0.000	0.361	0.366	0.400	1.4%	< 30	90.2%	91.5%	50 - 150	
Methiocarb	0.000	0.349	0.353	0.400	1.1%	< 30	87.2%	88.2%	50 - 150	
Methomyl	0.000	0.784	0.695	0.800	12.1%	< 30	98.0%	86.8%	50 - 150	
MGK-264	0.000	0.365	0.350	0.400	4.3%	< 30	91.2%	87.4%	50 - 150	
Myclobutanil	0.000	0.352	0.356	0.400	1.4%	< 30	87.9%	89.1%	50 - 150	
Naled	0.000	0.895	0.877	1.000	2.0%	< 30	89.5%	87.7%	50 - 150	
Oxamyl	0.000	2.251	2.498	2.000	10.4%	< 30	112.5%	124.9%	50 - 150	
Pacllobutrazole	0.000	0.702	0.699	0.800	0.4%	< 30	87.7%	87.4%	50 - 150	
Parathion-Methyl	0.000	0.280	0.260	0.400	7.4%	< 30	69.9%	64.9%	30 - 150	
Permethrin	0.000	0.417	0.414	0.400	0.5%	< 30	104.2%	103.6%	50 - 150	
Phosmet	0.000	0.360	0.367	0.400	1.9%	< 30	89.9%	91.6%	50 - 150	
Piperonyl butoxide	0.000	1.953	1.822	2.000	7.0%	< 30	97.7%	91.1%	50 - 150	
Prallethrin	0.000	0.362	0.365	0.400	0.8%	< 30	90.5%	91.2%	50 - 150	
Propiconazole	0.000	0.712	0.698	0.800	1.9%	< 30	89.0%	87.3%	50 - 150	
Propoxur	0.000	0.350	0.354	0.400	1.1%	< 30	87.5%	88.5%	50 - 150	
Pyrethrin (Summe)	0.002	0.436	0.436	0.488	0.0%	< 30	88.9%	88.9%	50 - 150	
Pyridaben	0.000	0.404	0.406	0.400	0.4%	< 30	101.0%	101.5%	50 - 150	
Spirosad	0.000	0.348	0.348	0.388	0.2%	< 30	89.8%	89.6%	50 - 150	
Spiromesifen	0.000	0.342	0.330	0.400	3.7%	< 30	85.5%	82.4%	50 - 150	
Spirotetramat	0.000	0.362	0.341	0.400	5.9%	< 30	90.6%	85.3%	50 - 150	
Spiroxamine	0.000	0.714	0.710	0.800	0.6%	< 30	89.3%	88.8%	50 - 150	
Tebuconazole	0.000	0.702	0.672	0.800	4.3%	< 30	87.7%	84.1%	50 - 150	
Thiacloprid	0.000	0.352	0.360	0.400	2.1%	< 30	88.1%	89.9%	50 - 150	
Thiamethoxam	0.000	0.457	0.512	0.400	11.4%	< 30	114.3%	128.1%	50 - 150	
Trifloxystrobin	0.000	0.357	0.351	0.400	1.5%	< 30	89.2%	87.8%	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 Columbia Laboratories 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 retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



12423 NE Whitaker Way
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503-254-1794



Report Number: 24-003023/D001.R000
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Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2402246

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0318	0.0324	%	98.4	80.0	- 120	Acceptable	
CBDV	2	0.0337	0.0352	%	95.8	80.0	- 120	Acceptable	
CBE	2	0.0346	0.0359	%	96.4	80.0	- 120	Acceptable	
CBDA	1	0.0319	0.0319	%	100	90.0	- 110	Acceptable	
CBGA	1	0.0317	0.0316	%	100	80.0	- 120	Acceptable	
CBG	1	0.0363	0.0366	%	99.2	80.0	- 120	Acceptable	
CBD	1	0.0353	0.0355	%	99.5	90.0	- 110	Acceptable	
THCV	2	0.0331	0.0345	%	95.9	80.0	- 120	Acceptable	
d8THCV	2	0.0289	0.0304	%	94.9	80.0	- 120	Acceptable	
THCVA	2	0.0314	0.0323	%	97.4	80.0	- 120	Acceptable	
CBN	1	0.0334	0.0334	%	100	80.0	- 120	Acceptable	
exo-THC	2	0.0311	0.0338	%	92.1	80.0	- 120	Acceptable	
d9THC	1	0.0358	0.0355	%	101	90.0	- 110	Acceptable	
d8THC	1	0.0330	0.0339	%	97.3	90.0	- 110	Acceptable	
9S-d10THC	1	0.0327	0.0333	%	98.2	80.0	- 120	Acceptable	
CBL	2	0.0315	0.0340	%	92.4	80.0	- 120	Acceptable	
9R-d10THC	1	0.0316	0.0326	%	97.0	80.0	- 120	Acceptable	
CBC	2	0.0313	0.0352	%	89.1	80.0	- 120	Acceptable	
THCA	1	0.0324	0.0320	%	101	90.0	- 110	Acceptable	
CBCA	2	0.0338	0.0346	%	97.6	80.0	- 120	Acceptable	
CBLA	2	0.0333	0.0344	%	96.7	80.0	- 120	Acceptable	
d9THCP	2	0.0277	0.0336	%	82.6	80.0	- 120	Acceptable	
CBT	2	0.0278	0.0348	%	80.1	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBDV	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBE	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBDA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBGA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBG	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBD	<LOQ	0.00318	%	< 0.00318	Acceptable	
THCV	<LOQ	0.00318	%	< 0.00318	Acceptable	
d8THCV	<LOQ	0.00318	%	< 0.00318	Acceptable	
THCVA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBN	<LOQ	0.00318	%	< 0.00318	Acceptable	
exo-THC	<LOQ	0.00318	%	< 0.00318	Acceptable	
d9THC	<LOQ	0.00318	%	< 0.00318	Acceptable	
d8THC	<LOQ	0.00318	%	< 0.00318	Acceptable	
9S-d10THC	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBL	<LOQ	0.00318	%	< 0.00318	Acceptable	
9R-d10THC	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBC	<LOQ	0.00318	%	< 0.00318	Acceptable	
THCA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBCA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBLA	<LOQ	0.00318	%	< 0.00318	Acceptable	
d9THCP	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBT	<LOQ	0.00318	%	< 0.00318	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

J AOAC 2015 V98-6		Batch ID: 2402246						
Sample Duplicate		Sample ID: 24-002727-0001-02						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBG	0.00536	0.00520	0.00324	%	2.95	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBN	0.00555	0.00550	0.00324	%	0.961	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
d9THC	0.256	0.254	0.00324	%	0.806	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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



Report Number: 24-003023/D001.R000
Report Date: 03/26/2024
ORELAP#: OR100028
Purchase Order:
Received: 03/19/24 11:11





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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.