



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



Report Number: 25-002575/D001.R000
Report Date: 03/19/2025
ORELAP#: OR100028
Purchase Order:
Received: 03/12/25 11:21

Customer: NW Natural Goods
Product identity: BEV - LM B-55-1
Metrc ID: .
Metrc Source ID:
Laboratory ID: 25-002575-0001

Summary

Potency:

Analyte per 355ml	Result	Limits	Units	Status	
CBC per 355ml	0.391		mg/355ml		CBD-Total per Serving Size 50.3 mg/355ml
CBD per 355ml	50.3		mg/355ml		
CBG per 355ml	1.27		mg/355ml		Delta-9-THC-Total per <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.



Customer: NW Natural Goods
 United States of America (USA)
Product identity: BEV - LM B-55-1
Metrc ID: .
Metrc Source ID:
Material: Cannabinoid Beverage
Sample Date:
Laboratory ID: 25-002575-0001
Evidence of Cooling: No
Temp: 15.7 °C
Serving Size #1: 362.1 g
Density: 1.020 g/ml

Sample Results

Potency per 355ml		Method: J AOAC 2015 V98-6 (mod) ^b		Units mg/se Batch: 2501921		Analyze: 3/17/25 9:05:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 355ml	0.391		mg/355ml	0.357		
CBC-A per 355ml	< LOQ		mg/355ml	0.357		
CBC-Total per 355ml	< LOQ		mg/355ml	0.670		
CBD per 355ml	50.3		mg/355ml	0.357		
CBD-A per 355ml ¹	< LOQ		mg/355ml	0.357		
CBD-Total per 355ml ¹	50.3		mg/355ml	0.670		
CBDV per 355ml	< LOQ		mg/355ml	0.357		
CBDV-A per 355ml	< LOQ		mg/355ml	0.357		
CBDV-Total per 355ml	< LOQ		mg/355ml	0.666		
CBE per 355ml	< LOQ		mg/355ml	0.357		
CBG per 355ml	1.27		mg/355ml	0.357		
CBG-A per 355ml	< LOQ		mg/355ml	0.357		
CBG-Total per 355ml	1.27		mg/355ml	0.666		
CBL per 355ml	< LOQ		mg/355ml	0.357		
CBL-A per 355ml	< LOQ		mg/355ml	0.357		
CBL-Total per 355ml	< LOQ		mg/355ml	0.670		
CBN per 355ml	< LOQ		mg/355ml	0.357		
CBT per 355ml	< LOQ		mg/355ml	0.357		
Δ10-THC-9R per 355ml	< LOQ		mg/355ml	0.357		
Δ10-THC-9S per 355ml	< LOQ		mg/355ml	0.357		
Δ10-THC-Total per 355ml	< LOQ		mg/355ml	0.714		
Δ8-THC per 355ml ¹	< LOQ		mg/355ml	0.357		
Δ8-THCV per 355ml	< LOQ		mg/355ml	0.357		
Δ9-THC per 355ml ¹	< LOQ		mg/355ml	0.357		
Δ9-THC-Total per 355ml	< LOQ		mg/355ml	0.670		
Δ9-THCP per 355ml	< LOQ		mg/355ml	0.357		
Δ9-THCV per 355ml	< LOQ		mg/355ml	0.357		
Δ9-THCV-A per 355ml	< LOQ		mg/355ml	0.357		
Δ9-THCV-Total per 355ml	< LOQ		mg/355ml	0.670		



Potency per 355ml Method: J AOAC 2015 V98-6 (mod)^p Units mg/se Batch: 2501921 Analyze: 3/17/25 9:05:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
exo-THC per 355ml	< LOQ		mg/355ml	0.357	
THC-A per 355ml ¹	< LOQ		mg/355ml	0.357	
Total Cannabinoids per 355ml	52.0		mg/355ml		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2501789	03/15/25 AOAC 990.12 (Petrifilm)		
E.coli	< LOQ		cfu/g	10	2501787	03/15/25 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2501787	03/15/25 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2501788	03/16/25 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2501788	03/16/25 AOAC 2014.05 (RAPID)		

Solvents Method: Residual Solvents by HS-GC-MS^b Units µg/g Batch 2501840 Analyze 03/14/25 11:02 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane ¹	< LOQ	380	100	pass		2-Butanol ¹	< LOQ	5000	200	pass	
2-Ethoxyethanol ¹	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane) ¹	< LOQ		200		
2-Methylpentane ¹	< LOQ		30.0			2-Propanol (IPA) ¹	< LOQ	5000	200	pass	
2,2-Dimethylbutane ¹	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane) ¹	< LOQ		200		
2,3-Dimethylbutane ¹	< LOQ		30.0			3-Methylpentane ¹	< LOQ		30.0		
Acetone ¹	< LOQ	5000	200	pass		Acetonitrile ¹	< LOQ	410	100	pass	
Benzene ¹	< LOQ	2.00	1.00	pass		Butanes (sum) ¹	< LOQ	5000	400	pass	
Cyclohexane ¹	< LOQ	3880	200	pass		Ethyl acetate ¹	< LOQ	5000	200	pass	
Ethyl benzene	< LOQ		200			Ethyl ether ¹	< LOQ	5000	200	pass	
Ethylene glycol ¹	< LOQ	620	200	pass		Ethylene oxide ¹	< LOQ	50.0	20.0	pass	
Hexanes (sum) ¹	< LOQ	290	150	pass		Isopropyl acetate ¹	< LOQ	5000	200	pass	
Isopropylbenzene (Cumene) ¹	< LOQ	70.0	30.0	pass		m,p-Xylene ¹	< LOQ		200		
Methanol ¹	< LOQ	3000	200	pass		Methylene chloride ¹	< LOQ	600	60.0	pass	
Methylpropane (Isobutane) ¹	< LOQ		200			n-Butane ¹	< LOQ		200		
n-Heptane ¹	< LOQ	5000	200	pass		n-Hexane ¹	< LOQ		30.0		
n-Pentane ¹	< LOQ		200			o-Xylene ¹	< LOQ		200		
Pentanes (sum)	< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass	
Tetrahydrofuran ¹	< LOQ	720	100	pass		Toluene ¹	< LOQ	890	100	pass	
Total Xylenes ¹	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass	



Pesticides					Method: AOAC 2007.01 & EN 15662 (mod)	Units mg/kg	Batch 2501846	Analyze 03/14/25 01:33 PM				
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes	
Abamectin ¹	< LOQ	0.50	0.250	pass		Acephate ¹	< LOQ	0.40	0.200	pass		
Acequinocyl ¹	< LOQ	2.0	1.00	pass		Acetamiprid ¹	< LOQ	0.20	0.100	pass		
Aldicarb ¹	< LOQ	0.40	0.200	pass		Azoxystrobin ¹	< LOQ	0.20	0.100	pass		
Bifenazate ¹	< LOQ	0.20	0.100	pass		Bifenthrin ¹	< LOQ	0.20	0.100	pass		
Boscalid ¹	< LOQ	0.40	0.200	pass		Carbaryl ¹	< LOQ	0.20	0.100	pass		
Carbofuran ¹	< LOQ	0.20	0.100	pass		Chlorantraniliprole ¹	< LOQ	0.20	0.100	pass		
Chlorfenapyr ¹	< LOQ	1.0	0.500	pass		Chlorpyrifos-ethyl ¹	< LOQ	0.20	0.100	pass		
Clofentezine ¹	< LOQ	0.20	0.100	pass		Cyfluthrin (sum) ¹	< LOQ	1.0	0.500	pass		
Cypermethrin and	< LOQ	1.0	0.500	pass		Daminozide ¹	< LOQ	1.0	0.500	pass		
Diazinon ¹	< LOQ	0.20	0.100	pass		Dichlorvos ¹	< LOQ	1.0	0.500	pass		
Dimethoate ¹	< LOQ	0.20	0.100	pass		Ethoprophos ¹	< LOQ	0.20	0.100	pass		
Etofenprox ¹	< LOQ	0.40	0.200	pass		Etiozazole ¹	< LOQ	0.20	0.100	pass		
Fenoxycarb ¹	< LOQ	0.20	0.100	pass		Fenpyroximate ¹	< LOQ	0.40	0.200	pass		
Fipronil ¹	< LOQ	0.40	0.200	pass		Flonicamid ¹	< LOQ	1.0	0.400	pass		
Fludioxonil ¹	< LOQ	0.40	0.200	pass		Hexythiazox ¹	< LOQ	1.0	0.400	pass		
Imazalil ¹	< LOQ	0.20	0.100	pass		Imidacloprid ¹	< LOQ	0.40	0.200	pass		
Kresoxim-methyl ¹	< LOQ	0.40	0.200	pass		Malathion ¹	< LOQ	0.20	0.100	pass		
Metalaxyl ¹	< LOQ	0.20	0.100	pass		Methiocarb ¹	< LOQ	0.20	0.100	pass		
Methomyl ¹	< LOQ	0.40	0.200	pass		MGK-264 ¹	< LOQ	0.20	0.100	pass		
Myclobutanil ¹	< LOQ	0.20	0.100	pass		Naled ¹	< LOQ	0.50	0.250	pass		
Oxamyl ¹	< LOQ	1.0	0.500	pass		Paclobutrazole ¹	< LOQ	0.40	0.200	pass		
Parathion-methyl ¹	< LOQ	0.20	0.100	pass		Permethrin ¹	< LOQ	0.20	0.100	pass		
Phosmet ¹	< LOQ	0.20	0.100	pass		Piperonyl butoxide ¹	< LOQ	2.0	1.00	pass		
Prallethrin ¹	< LOQ	0.20	0.100	pass		Propiconazole ¹	< LOQ	0.40	0.200	pass		
Propoxur ¹	< LOQ	0.20	0.100	pass		Pyrethrin I (total) ¹	< LOQ	1.0	0.500	pass		
Pyridaben ¹	< LOQ	0.20	0.100	pass		Spinosad ¹	< LOQ	0.20	0.100	pass		
Spiromesifen ¹	< LOQ	0.20	0.100	pass		Spirotetramat ¹	< LOQ	0.20	0.100	pass		
Spiroxamine ¹	< LOQ	0.40	0.200	pass		Tebuconazole ¹	< LOQ	0.40	0.200	pass		
Thiacloprid ¹	< LOQ	0.20	0.100	pass		Thiamethoxam ¹	< LOQ	0.20	0.100	pass		
Trifloxystrobin ¹	< LOQ	0.20	0.100	pass								

Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes
Arsenic ¹	< LOQ	0.200	mg/kg	0.00392	2501876	03/14/25	AOAC 2013.06 (mod.) ^p	pass	
Cadmium ¹	< LOQ	0.200	mg/kg	0.00392	2501876	03/14/25	AOAC 2013.06 (mod.) ^p	pass	
Lead ¹	< LOQ	0.500	mg/kg	0.00392	2501876	03/14/25	AOAC 2013.06 (mod.) ^p	pass	
Mercury ¹	< LOQ	0.100	mg/kg	0.00196	2501876	03/14/25	AOAC 2013.06 (mod.) ^p	pass	



Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B1 ^L	< LOQ		µg/kg	5.00	2501904	03/17/25 Mycotoxins by AOAC 2007.01		
Aflatoxin B2 ^L	< LOQ		µg/kg	5.00	2501904	03/17/25 Mycotoxins by AOAC 2007.01		
Aflatoxin G1 ^L	< LOQ		µg/kg	5.00	2501904	03/17/25 Mycotoxins by AOAC 2007.01		
Aflatoxin G2 ^L	< LOQ		µg/kg	5.00	2501904	03/17/25 Mycotoxins by AOAC 2007.01		
Ochratoxin A	< LOQ	20.0	µg/kg	5.00	2501904	03/17/25 Mycotoxins by AOAC 2007.01 ^b	pass	
Total Aflatoxins	< LOQ	20.0	µg/kg	20.0		03/18/25 Mycotoxins by AOAC 2007.01 ^b	pass	

**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 = Gram

g/ml = Gram per milliliter

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

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

mg/355ml = Milligram per 355ml

% = Percentage of sample

% wt = µg/g divided by 10,000



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Report Number: 25-002575/D001.R000
Report Date: 03/19/2025
ORELAP#: OR100028
Purchase Order:
Received: 03/12/25 11:21



Hemp & Cannabis
Chain of Custody

NW-Natural-Goods-
174792596

Company Details					Testing				
					M1010 - Micro Pro	H1010 - Potency Cannabis (Basic+Expanded)	H1042S - A. atoxins+Ochratoxin OLCC	H1013 - Cannabis Heavy Metals Pro	P2120 - Pesticides (OR - Cannabis)
Project Details									
Turnaround Time: 5 Business Days Req. For Micro Testing Standard									
Relinquishment Sampling, Courier & Shipping Options: Pick-Up Courier Service									
Project Name / ID: BEV - LMB-55-1									
Pick-Up Details									
Pick-Up Location Name: NW Natural Goods									
Receipt Information									
Evidence of Cooling?: No									
Sample Condition: Satisfactory									
Prelog Storage: Canna Shelves									
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size				
1	BEV - LMB-55-1	Cannabinoid Beverage	4 each	mg/g & mg/serving	355 g	✓	✓	✓	✓

Relinquished By	Date	Time	Temp., °C	Received By	Date	Time	Received Temp., °C	IRTherm. CL#
JOSHCOOD	03/12/2025	08:16		BCR	03/12/2025	10:26	NA	NA
BCR	03/12/2025	11:19	15.7	dst	03/12/2025	11:21	15.7	Other

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of services](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories
12423 NE Whitaker Way
Portland, OR 97230

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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2501840			
Method Blank				Laboratory Control Sample			
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec Limits Notes
Propane	ND	< 200		555	585	µg/g	94.9 60 - 120
Isobutane	ND	< 200		719	770	µg/g	93.4 60 - 120
Butane	ND	< 200		717	769	µg/g	93.2 60 - 120
2,2-Dimethylpropane	ND	< 200		824	956	µg/g	86.2 60 - 120
Methanol	ND	< 200		1700	1650	µg/g	103.0 60 - 120
Ethylene Oxide	ND	< 30		54.7	57.7	µg/g	94.8 60 - 120
2-Methylbutane	ND	< 200		1680	1620	µg/g	103.7 60 - 120
Pertane	ND	< 200		1680	1620	µg/g	103.7 60 - 120
Ethanol	ND	< 200		1740	1680	µg/g	103.6 70 - 130
Ethyl Ether	ND	< 200		1660	1640	µg/g	101.2 60 - 120
2,2-Dimethylbutane	ND	< 30		190	182	µg/g	104.4 60 - 120
Acetone	ND	< 200		1680	1640	µg/g	102.4 60 - 120
2-Propanol	ND	< 200		1710	1630	µg/g	104.9 60 - 120
Ethyl Formate	ND	< 500		1290	1610	µg/g	80.1 70 - 130
Acetonitrile	ND	< 100		513	513	µg/g	100.0 60 - 120
Methyl Acetate	ND	< 500		1740	1610	µg/g	108.1 70 - 130
2,3-Dimethylbutane	ND	< 30		191	184	µg/g	103.8 60 - 120
Dichloromethane	ND	< 60		588	589	µg/g	99.8 60 - 120
2-Methylpentane	ND	< 30		191	185	µg/g	103.2 60 - 120
MTBE	ND	< 500		1680	1610	µg/g	104.3 70 - 130
3-Methylpentane	ND	< 30		184	177	µg/g	104.0 60 - 120
Hexane	ND	< 30		176	174	µg/g	101.1 60 - 120
1-Propanol	ND	< 500		1720	1600	µg/g	107.5 60 - 130
Methylethylketone	ND	< 500		1710	1610	µg/g	106.2 70 - 130
Ethyl acetate	ND	< 200		1670	1620	µg/g	103.1 60 - 120
2-Butanol	ND	< 200		1680	1640	µg/g	102.4 60 - 120
Tetrahydrofuran	ND	< 100		525	511	µg/g	102.7 60 - 120
Cyclohexane	ND	< 200		1590	1610	µg/g	98.8 60 - 120
2-methyl-1-propanol	ND	< 500		1700	1610	µg/g	105.6 70 - 130
Benzene	ND	< 1		5.35	5.56	µg/g	96.2 60 - 120
Isopropyl Acetate	ND	< 200		1650	1620	µg/g	101.9 60 - 120
Heptane	ND	< 200		1550	1610	µg/g	96.3 60 - 120
1-Butanol	ND	< 500		1640	1610	µg/g	101.9 70 - 130
Propyl Acetate	ND	< 500		1720	1620	µg/g	106.2 70 - 130
1,4-Dioxane	ND	< 100		441	487	µg/g	90.6 60 - 120
2-Ethoxyethanol	ND	< 30		188	180	µg/g	104.4 60 - 120
Methylisobutylketone	ND	< 500		1600	1620	µg/g	98.8 70 - 130
3-Methyl-1-butanol	ND	< 500		1550	1600	µg/g	96.9 70 - 130
Ethylene Glycol	ND	< 200		441	530	µg/g	83.2 60 - 120
Toluene	ND	< 100		464	497	µg/g	93.4 60 - 120
Isobutyl Acetate	ND	< 500		1630	1620	µg/g	100.6 70 - 130
1-Pentanol	ND	< 500		1600	1600	µg/g	100.0 70 - 130
Butyl Acetate	ND	< 500		1620	1600	µg/g	101.3 70 - 130
Ethylbenzene	ND	< 200		1020	1060	µg/g	96.2 60 - 120
m,p-Xylene	ND	< 200		974	1040	µg/g	93.7 60 - 120
o-Xylene	ND	< 200		997	1090	µg/g	91.5 60 - 120
Cumene	ND	< 30		211	227	µg/g	93.0 60 - 120
Anisole	ND	< 500		1520	1610	µg/g	94.4 70 - 130
DMSO	ND	< 500		1430	1600	µg/g	89.4 70 - 130
1,2-dimethoxyethane	ND	< 50		175	162	µg/g	108.0 70 - 130
Triethylamine	ND	< 500		1600	1600	µg/g	100.0 70 - 130
N,N-dimethylformamide	ND	< 150		477	487	µg/g	97.9 70 - 130
N,N-dimethylacetamide	ND	< 150		483	498	µg/g	97.0 70 - 130
Pyridine	ND	< 50		164	162	µg/g	101.2 70 - 130
Sulfolane	ND	< 50		136	173	µg/g	78.6 70 - 130
1,2-Dichloroethane	ND	< 1		1.07	1	µg/g	107.0 70 - 130
Chloroform	ND	< 1		1.06	1	µg/g	106.0 70 - 130
Trichloroethylene	ND	< 1		0.962	1	µg/g	96.2 70 - 130
1,1-Dichloroethane	ND	< 1		1.12	1	µg/g	112.0 70 - 130



QC- Sample Duplicate

Sample ID: 25-002420-0001

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	
Pertane	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	
Methylethylketone	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	
Sulfone	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



Laboratory Pesticide Quality Control Results

AOAC2007.1 &EN 15662			Units: mg/Kg		Batch ID 2501846				
Method Bank			Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spke	LCS% Re	Limits	Notes	
Abamectin	0.007	< 0.250		0.952	1.000	95.2	50.0 150		
Acephate	0.015	< 0.200		0.687	0.800	85.9	60.0 120		
Acequinocyl	0.252	< 1.000		4.752	4.000	118.8	40.0 160		
Acetamiprid	0.000	< 0.100		0.362	0.400	90.6	60.0 120		
Aldicarb	0.001	< 0.200		0.712	0.800	89.0	60.0 120		
Azoxystrobin	0.001	< 0.100		0.355	0.400	88.9	60.0 120		
Bifenazate	0.000	< 0.100		0.367	0.400	91.8	60.0 120		
Bifenthrin	0.000	< 0.100		0.407	0.400	101.7	50.0 150		
Boscalid	0.002	< 0.200		0.695	0.800	86.9	60.0 120		
Carbaryl	0.000	< 0.100		0.347	0.400	86.7	60.0 120		
Carbofuran	0.000	< 0.100		0.365	0.400	91.3	60.0 120		
Chlorantraniliprole	0.000	< 0.100		0.358	0.400	89.6	60.0 120		
Chlorfenapyr	0.000	< 0.500		1.933	2.000	96.6	60.0 120		
Chlorpyrifos	0.000	< 0.100		0.355	0.400	88.7	60.0 120		
Clofentezine	0.000	< 0.100		0.363	0.400	90.8	60.0 120		
Cyfluthrin	0.000	< 0.500		1.746	2.000	87.3	50.0 150		
Cypermethrin	0.000	< 0.500		1.745	2.000	87.3	50.0 150		
Daminozide	0.000	< 0.500		0.687	2.000	34.4	60.0 120	Q7	
Diazinon	0.000	< 0.100		0.391	0.400	97.7	60.0 120		
Dichlorvos	0.037	< 0.500		1.722	2.000	86.1	60.0 120		
Dimethoate	0.002	< 0.100		0.345	0.400	86.3	60.0 120		
Ethoprophos	0.000	< 0.100		0.357	0.400	89.3	60.0 120		
Etofenprox	0.000	< 0.200		0.761	0.800	95.1	50.0 150		
Etoxazole	0.001	< 0.100		0.376	0.400	94.1	60.0 120		
Fenoxycarb	0.000	< 0.100		0.372	0.400	92.9	60.0 120		
Fenpyroximate	0.007	< 0.200		0.705	0.800	88.3	60.0 120		
Fipronil	0.000	< 0.200		0.713	0.800	89.1	60.0 120		
Fonicamid	0.000	< 0.250		0.855	1.000	85.5	60.0 120		
Fudioxonil	0.000	< 0.200		0.699	0.800	87.4	50.0 150		
Hexythiazox	0.000	< 0.250		0.904	1.000	90.4	60.0 120		
Imazalil	0.000	< 0.100		0.357	0.400	89.3	60.0 120		
Imidacloprid	0.001	< 0.200		0.695	0.800	86.9	60.0 120		
Kresoxim-methyl	0.000	< 0.200		0.735	0.800	92.1	60.0 120		
Malathion	0.000	< 0.100		0.365	0.400	91.2	60.0 120		
Metaxyl	0.001	< 0.100		0.362	0.400	90.4	60.0 120		
Methiocarb	0.004	< 0.100		0.347	0.400	86.6	60.0 120		
Methomyl	0.000	< 0.200		0.719	0.800	89.9	60.0 120		
MKG-264	0.000	< 0.100		0.382	0.400	95.6	50.0 150		
Mydobutanil	0.003	< 0.100		0.364	0.400	91.0	60.0 120		
Naled	0.000	< 0.250		0.874	1.000	87.4	50.0 150		
Oxamyl	0.000	< 0.500		1.773	2.000	88.6	60.0 120		
Padobutrazole	0.000	< 0.200		0.738	0.800	92.2	60.0 120		
Parathion-Methyl	0.018	< 0.100		0.397	0.400	99.4	50.0 150		
Permethrin	0.000	< 0.100		0.351	0.400	87.9	50.0 150		
Phosmet	0.000	< 0.100		0.362	0.400	90.4	50.0 150		
Piperonyl butoxide	0.000	< 0.500		1.869	2.000	93.5	60.0 120		
Prallethrin	0.002	< 0.100		0.365	0.400	91.2	60.0 120		
Propiconazole	0.000	< 0.200		0.728	0.800	90.9	60.0 120		
Propoxur	0.003	< 0.100		0.352	0.400	88.0	60.0 120		
Pyrethrin (Summe)	0.000	< 0.100		0.414	0.488	84.8	60.0 120		
Pyridaben	0.000	< 0.100		0.370	0.400	92.5	50.0 150		
Spinosad	0.000	< 0.100		0.352	0.388	90.6	50.0 150		
Spiromesifen	0.000	< 0.100		0.378	0.400	94.5	60.0 120		
Spirotetramat	0.000	< 0.100		0.360	0.400	90.0	60.0 120		
Spiroxamine	0.000	< 0.200		0.733	0.800	91.7	60.0 120		



Laboratory Pesticide Quality Control Results

AOAC2007.1 &EN 15662				Units: mg/Kg			Batch ID 2501846				
Matrix Spike/Matrix Spike Duplicate Recoveries							Sample ID: 250025750001				
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Re	MSD % Re	Limits	Notes	
Abamectin	0.000	0.857	0.901	1.000	5.0%	< 30	85.7%	90.1%	50 - 150	RQ	
Acephate	0.006	0.683	0.668	0.800	2.2%	< 30	84.7%	82.8%	50 - 150		
Acequinocyl	0.257	4.347	6.734	4.000	45.2%	< 30	102.3%	161.9%	50 - 150		
Acetamiprid	0.000	0.344	0.357	0.400	3.7%	< 30	85.9%	89.1%	50 - 150		
Aldicarb	0.001	0.668	0.687	0.800	2.9%	< 30	83.3%	85.8%	50 - 150		
Azoxystrobin	0.000	0.343	0.350	0.400	1.9%	< 30	85.8%	87.4%	50 - 150		
Bifenazate	0.000	0.348	0.356	0.400	2.3%	< 30	86.9%	88.9%	50 - 150		
Bifenthrin	0.000	0.395	0.415	0.400	4.8%	< 30	98.8%	103.6%	50 - 150		
Boscalid	0.002	0.659	0.681	0.800	3.4%	< 30	82.0%	84.9%	50 - 150		
Carbaryl	0.000	0.323	0.332	0.400	2.8%	< 30	80.7%	83.0%	50 - 150		
Carbofuran	0.000	0.347	0.351	0.400	1.4%	< 30	86.7%	87.9%	50 - 150		
Chlorantraniliprole	0.003	0.334	0.344	0.400	3.0%	< 30	82.8%	85.3%	50 - 150		
Chlorfenapyr	0.000	1.570	1.805	2.000	14.0%	< 30	78.5%	90.3%	50 - 150		
Chlorpyrifos	0.000	0.336	0.337	0.400	0.4%	< 30	84.0%	84.3%	50 - 150		
Clofentezine	0.000	0.348	0.353	0.400	1.4%	< 30	87.1%	88.3%	50 - 150		
Cyfluthrin	0.000	1.745	1.742	2.000	0.2%	< 30	87.3%	87.1%	30 - 150		
Cypermethrin	0.000	1.699	1.715	2.000	1.0%	< 30	84.9%	85.8%	50 - 150		
Daminozide	0.000	0.678	0.615	2.000	9.7%	< 30	33.9%	30.8%	30 - 150		
Diazinon	0.000	0.375	0.380	0.400	1.4%	< 30	93.8%	95.1%	50 - 150		
Dichlorvos	0.039	1.586	1.648	2.000	3.9%	< 30	77.3%	80.4%	50 - 150		
Dimethoate	0.002	0.326	0.345	0.400	5.8%	< 30	81.0%	85.8%	50 - 150		
Ethoprophos	0.000	0.336	0.354	0.400	5.2%	< 30	84.0%	88.5%	50 - 150		
Etofenprox	0.000	0.718	0.757	0.800	5.4%	< 30	89.7%	94.7%	50 - 150		
Etoxazole	0.001	0.356	0.369	0.400	3.4%	< 30	88.9%	92.0%	50 - 150		
Fenoxycarb	0.000	0.346	0.352	0.400	1.7%	< 30	86.6%	88.1%	50 - 150		
Fenpyroximate	0.007	0.665	0.700	0.800	5.2%	< 30	82.3%	86.6%	50 - 150		
Fipronil	0.000	0.682	0.708	0.800	3.7%	< 30	85.2%	88.5%	50 - 150		
Honicamid	0.000	0.802	0.815	1.000	1.7%	< 30	80.2%	81.5%	50 - 150		
Hudioxonil	0.000	0.687	0.723	0.800	5.1%	< 30	85.9%	90.3%	50 - 150		
Hexythiazox	0.000	0.938	1.003	1.000	7.2%	< 30	93.3%	100.2%	50 - 150		
Imazalil	0.000	0.350	0.353	0.400	0.8%	< 30	87.6%	88.3%	50 - 150		
Imidacloprid	0.000	0.650	0.657	0.800	1.1%	< 30	81.3%	82.2%	50 - 150		
Kiesoxim-methyl	0.000	0.688	0.701	0.800	1.8%	< 30	86.1%	87.7%	50 - 150		
Malathion	0.000	0.352	0.352	0.400	0.1%	< 30	88.0%	88.1%	50 - 150		
Metaxyl	0.001	0.349	0.356	0.400	2.0%	< 30	87.0%	88.7%	50 - 150		
Methiocarb	0.004	0.330	0.343	0.400	3.8%	< 30	81.4%	84.6%	50 - 150		
Methomyl	0.000	0.688	0.701	0.800	1.9%	< 30	86.0%	87.6%	50 - 150		
MGK-264	0.000	0.354	0.370	0.400	4.4%	< 30	88.5%	92.5%	50 - 150		
Mydobutanil	0.003	0.349	0.356	0.400	2.1%	< 30	86.5%	88.3%	50 - 150		
Naled	0.000	0.810	0.844	1.000	4.1%	< 30	81.0%	84.4%	50 - 150		
Oxamyl	0.000	1.711	1.732	2.000	1.2%	< 30	85.6%	86.6%	50 - 150		
Padobutrazole	0.000	0.689	0.720	0.800	4.4%	< 30	86.1%	90.0%	50 - 150		
Parathion-Methyl	0.000	0.379	0.437	0.400	14.4%	< 30	94.6%	109.3%	30 - 150		
Permethrin	0.000	0.330	0.341	0.400	3.5%	< 30	82.4%	85.3%	50 - 150		
Phosmet	0.000	0.341	0.349	0.400	2.3%	< 30	85.2%	87.1%	50 - 150		
Piperonyl butoxide	0.000	1.766	1.848	2.000	4.5%	< 30	88.3%	92.4%	50 - 150		
Prallethrin	0.005	0.358	0.366	0.400	2.1%	< 30	88.5%	90.3%	50 - 150		
Propiconazole	0.000	0.689	0.729	0.800	5.5%	< 30	86.2%	91.1%	50 - 150		
Propoxur	0.003	0.333	0.345	0.400	3.5%	< 30	82.6%	85.6%	50 - 150		
Pyrethrin (Summe)	0.000	0.379	0.409	0.488	7.5%	< 30	77.7%	83.8%	50 - 150		
Pyridaben	0.000	0.359	0.368	0.400	2.5%	< 30	89.7%	92.0%	50 - 150		
Spinosad	0.000	0.331	0.340	0.388	2.9%	< 30	85.2%	87.7%	50 - 150		
Spiromesifen	0.000	0.357	0.372	0.400	3.9%	< 30	89.3%	92.9%	50 - 150		
Spirotetramat	0.000	0.344	0.357	0.400	3.9%	< 30	85.9%	89.3%	50 - 150		
Spiroxamine	0.000	0.686	0.721	0.800	5.0%	< 30	85.8%	90.2%	50 - 150		



Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2501921

Laboratory Control Sample

Analyte	LS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0009	0.0010	%	93.4	80.0 - 120	Acceptable	
CBDV	2	0.0010	0.00105	%	94.8	80.0 - 120	Acceptable	
CBE	2	0.00101	0.00103	%	97.7	80.0 - 120	Acceptable	
CBDIA	1	0.00101	0.00106	%	95.1	90.0 - 110	Acceptable	
CBGA	1	0.0010	0.00104	%	95.9	80.0 - 120	Acceptable	
CBG	1	0.00102	0.00102	%	100	80.0 - 120	Acceptable	
CBD	1	0.0010	0.0010	%	99.4	90.0 - 110	Acceptable	
THCV	2	0.0010	0.00101	%	94.4	80.0 - 120	Acceptable	
d8THCV	2	0.00102	0.00109	%	93.3	80.0 - 120	Acceptable	
THCVA	2	0.0009	0.0010	%	90.9	80.0 - 120	Acceptable	
CBN	1	0.00101	0.00101	%	100	80.0 - 120	Acceptable	
exo-THC	2	0.0009	0.00100	%	94.1	80.0 - 120	Acceptable	
d9THC	1	0.00101	0.00101	%	100	90.0 - 110	Acceptable	
d8THC	1	0.00106	0.00105	%	101	90.0 - 110	Acceptable	
9Sa10THC	1	0.00107	0.00107	%	100.0	80.0 - 120	Acceptable	
CB	2	0.0010	0.0010	%	96.0	80.0 - 120	Acceptable	
9Ra10THC	1	0.00103	0.00108	%	95.1	80.0 - 120	Acceptable	
CB	2	0.00102	0.00105	%	97.9	80.0 - 120	Acceptable	
THCA	1	0.00103	0.00113	%	91.4	90.0 - 110	Acceptable	
CBGA	2	0.0009	0.00101	%	91.6	80.0 - 120	Acceptable	
CBLA	2	0.0009	0.00101	%	86.8	80.0 - 120	Acceptable	
d9THCP	2	0.0010	0.00101	%	98.1	80.0 - 120	Acceptable	
CBI	2	0.0010	0.00104	%	95.8	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBDV	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBE	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBDIA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBGA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBG	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBD	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCV	<LOQ	0.0001	%	< 0.0001	Acceptable	
d8THCV	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCVA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBN	<LOQ	0.0001	%	< 0.0001	Acceptable	
exo-THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
d9THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
d8THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
9Sa10THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CB	<LOQ	0.0001	%	< 0.0001	Acceptable	
9Ra10THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CB	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBGA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBLA	<LOQ	0.0001	%	< 0.0001	Acceptable	
d9THCP	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBI	<LOQ	0.0001	%	< 0.0001	Acceptable	

Abbreviations

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

Units of Measure:

%- Percent



Laboratory Quality Control Results

JAOAC2015 V986			Batch ID: 2501921					
Sample Duplicate			Sample ID: 25-0025740001					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG	0.0003	0.0003	0.0001	%	0.320	< 20	Acceptable	
CB	0.0140	0.0140	0.0001	%	0.434	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9Sa10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9Ra10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CB	0.0001	0.0001	0.0001	%	2.07	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.0001	%	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: 25-002575/D001.R000
Report Date: 03/19/2025
ORELAP#: OR100028
Purchase Order:
Received: 03/12/25 11:21





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.