Columbia LABORATORIES
A Tentamus Company

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

Report Number:	22-010980/D002.R000
Report Date:	09/23/2022
ORELAP#:	OR100028
Purchase Order:	
Received:	09/14/22 12:00

Customer:	NW Natural Goods
Product identity:	HEMP - EB 0048
Client/Metrc ID:	.
Laboratory ID:	22-010980-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status
CBD per 4g	27.7		mg/4g	
CBN per 4g	5.48		mg/4g	

CBD-Total per Serving Size 27.7 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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ORELAP#: OR100028
Purchase Order:
Received: 09/14/22 12:00

Customer: NW Natural Goods

Product identity: HEMP - EB 0048
Client/Metrc ID: .
Sample Date:
Laboratory ID: 22-010980-0001
Evidence of Cooling: No
Temp: 20.9 °C
Relinquished by: UPS
Serving Size #1: 4 g

Sample Results

Potency per 4g **Method:** J AOAC 2015 V98-6 (mod)þ **Units** mg/se **Batch:** 2207914 **Analyze:** 9/20/22 2:40:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 4g	27.7		mg/4g	0.130	
CBD-A per 4g	< LOQ		mg/4g	0.130	
CBD-Total per 4g	27.7		mg/4g	0.245	
CBG per 4g	< LOQ		mg/4g	0.130	
CBG-A per 4g	< LOQ		mg/4g	0.130	
CBG-Total per 4g	< LOQ		mg/4g	0.243	
CBN per 4g	5.48		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	
THC-A per 4g	< LOQ		mg/4g	0.130	
THC-Total per 4g	< LOQ		mg/4g	0.245	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2207749	09/17/22	AOAC 990.12 (Petrifilm)þ		
E.coli	< LOQ		cfu/g	10	2207747	09/17/22	AOAC 991.14 (Petrifilm)þ		
Total Coliforms	< LOQ		cfu/g	10	2207747	09/17/22	AOAC 991.14 (Petrifilm)þ		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2207748	09/18/22	AOAC 2014.05 (RAPID)þ		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2207748	09/18/22	AOAC 2014.05 (RAPID)þ		

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Received: 09/14/22 12:00

Solvents **Method:** Residual Solvents by GC/MS^{b} **Units** µg/g **Batch** 2208032 **Analyze** 09/23/22 10:23 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)[þ] **Units** mg/kg **Batch** 2207908 **Analyze** 09/20/22 01:33 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		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	0.0179	2207854	09/16/22	AOAC 2013.06 (mod.)[þ]	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0179	2207854	09/16/22	AOAC 2013.06 (mod.)[þ]	pass	
Lead	< LOQ	0.500	mg/kg	0.0179	2207854	09/16/22	AOAC 2013.06 (mod.)[þ]	pass	
Mercury	< LOQ	0.100	mg/kg	0.00894	2207854	09/16/22	AOAC 2013.06 (mod.)[þ]	pass	

Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Moisture (Loss on Drying)	18.1		g/100g	0.10	2207912	09/19/22	AOAC 925.10 (mod.)[þ]		
Water Activity	0.703		Aw	0.030	2207766	09/15/22	AOAC 978.18[þ]		

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These test results are representative of the individual sample selected and submitted by the client.

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.

ᵇ = 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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Columbia LABORATORIES A Tentamus Company

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
☑ **Email Results:** annienair@nwnaturalgoods.com
☐ **Ph:** (____) - _____

Billing Contact (if different)
Name: _____ **Email:** _____
Address: _____
City: _____ **State:** _____ **Zip:** _____
Ph: (____) - _____

Analysis Requested

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/Metrc ID
	HEMP - EB 0048	09/14/22		✔	✔	✔	✔	✔	✔	✔	✔			80g	

PO Number: _____
Project ID: _____
Batch ID: _____
Sampled by: _____
Custom Reporting: _____

Source Material: ☐ - Ind. Hemp product | ☐ - Rec. Cannabis
Reporting Type: ☐ - Compliance | ☐ - R&D
Report to: ☐ - METRC | ☐ - ODA | ☐ - USDA |
☐ - Other:

Turnaround time (TAT - Business Days):
■ - 5BD | ☐ - 3BD* | ☐ - 2BD*
**Check for availability*

Signature - Relinquished By:	Date	Time	Signature - Received By:	Date	Time
Annie Nair	9.14.22	1035		9.14.22	1045
	9.14.22	1130		9/14/22	15:07

Lab Use Only:
☐ Shipped Via: _____ or ☐ Client drop off
Evidence of cooling: ☐ Yes | ☐ No - Temp (°C): 19.8
Sample in good condition: ☐ Yes | ☐ No _____
Payment: ☐ Cash | ☐ Check | ☐ CC | ☐ 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 current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms

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Received: 09/14/22 12:00

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:** 2207908

Method Blank				Laboratory Control Sample					
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**		**Notes**
Abamectin	0.000	< 0.250		1.077	1.000	107.7	50.0	150	
Acephate	0.000	< 0.250		0.894	1.000	89.4	60.0	120	
Acequinocyl	0.000	< 1.000		3.537	4.000	88.4	40.0	160	
Acetamiprid	0.000	< 0.100		0.397	0.400	99.2	60.0	120	
Aldicarb	0.000	< 0.200		0.834	0.800	104.3	60.0	120	
Azoxystrobin	0.000	< 0.100		0.442	0.400	110.5	60.0	120	
Bifenazate	0.000	< 0.100		0.423	0.400	105.7	60.0	120	
Bifenthrin	0.000	< 0.100		0.385	0.400	96.2	50.0	150	
Boscalid	0.000	< 0.200		0.842	0.800	105.2	60.0	120	
Carbaryl	0.000	< 0.100		0.395	0.400	98.8	60.0	120	
Carbofuran	0.000	< 0.100		0.410	0.400	102.4	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.414	0.400	103.5	60.0	120	
Chlorfenapyr	0.000	< 0.500		2.040	2.000	102.0	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.411	0.400	102.9	60.0	120	
Clofentezine	0.000	< 0.100		0.147	0.400	***36.6***	60.0	120	**Q6**
Cyfluthrin	0.000	< 0.500		2.085	2.000	104.3	50.0	150	
Cypermethrin	0.000	< 0.500		2.067	2.000	103.3	50.0	150	
Daminozide	0.007	< 0.500		0.581	2.000	***29.1***	60.0	120	**Q6**
Diazinon	0.000	< 0.100		0.439	0.400	109.8	60.0	120	
Dichlorvos	0.000	< 0.500		2.038	2.000	101.9	60.0	120	
Dimethoate	0.000	< 0.100		0.409	0.400	102.3	60.0	120	
Ethoprophos	0.000	< 0.100		0.420	0.400	105.1	60.0	120	
Etofenprox	0.000	< 0.200		0.778	0.800	97.2	50.0	150	
Etoxazole	0.000	< 0.100		0.416	0.400	104.0	60.0	120	
Fenoxycarb	0.000	< 0.100		0.433	0.400	108.2	60.0	120	
Fenpyroximate	0.000	< 0.200		0.825	0.800	103.1	60.0	120	
Fipronil	0.000	< 0.200		0.840	0.800	105.0	60.0	120	
Flonicamid	0.000	< 0.250		1.020	1.000	102.0	60.0	120	
Fludioxonil	0.000	< 0.200		0.869	0.800	108.6	50.0	150	
Hexythiazox	0.000	< 0.250		0.972	1.000	97.2	60.0	120	
Imazalil	0.000	< 0.100		0.474	0.400	118.6	60.0	120	
Imidacloprid	0.000	< 0.200		0.828	0.800	103.5	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.839	0.800	104.9	60.0	120	
Malathion	0.000	< 0.100		0.426	0.400	106.6	60.0	120	
Metalaxyl	0.000	< 0.100		0.430	0.400	107.6	60.0	120	
Methiocarb	0.000	< 0.100		0.420	0.400	105.0	60.0	120	
Methomyl	0.000	< 0.200		0.655	0.800	81.8	60.0	120	
MGK-264	0.000	< 0.100		0.432	0.400	107.9	50.0	150	
Myclobutanil	0.000	< 0.100		0.413	0.400	103.1	60.0	120	
Naled	0.000	< 0.250		0.580	1.000	58.0	50.0	150	
Oxamyl	0.000	< 0.500		1.840	2.000	92.0	60.0	120	
Paclobutrazole	0.000	< 0.200		0.874	0.800	109.2	60.0	120	
Parathion-Methyl	0.000	< 0.200		0.492	0.800	61.5	50.0	150	
Permethrin	0.001	< 0.100		0.388	0.400	97.1	50.0	150	
Phosmet	0.000	< 0.100		0.424	0.400	105.9	50.0	150	
Piperonyl butoxide	0.000	< 0.500		2.118	2.000	105.9	60.0	120	
Prallethrin	0.000	< 0.100		0.444	0.400	110.9	60.0	120	
Propiconazole	0.000	< 0.200		0.815	0.800	101.9	60.0	120	
Propoxur	0.000	< 0.100		0.402	0.400	100.6	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.433	0.413	104.8	60.0	120	
Pyridaben	0.000	< 0.100		0.399	0.400	99.7	50.0	150	
Spinosad	0.000	< 0.100		0.415	0.388	107.0	50.0	150	
Spiromesifen	0.000	< 0.100		0.402	0.400	100.4	60.0	120	
Spirotetramat	0.000	< 0.100		0.418	0.400	104.5	60.0	120	
Spiroxamine	0.000	< 0.200		0.849	0.800	106.2	60.0	120	
Tebuconazole	0.000	< 0.200		0.865	0.800	108.2	60.0	120	
Thiacloprid	0.000	< 0.100		0.396	0.400	99.0	60.0	120	
Thiamethoxam	0.000	< 0.100		0.375	0.400	93.8	60.0	120	
Trifloxystrobin	0.000	< 0.100		0.413	0.400	103.3	60.0	120	

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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:** 2207908

Matrix Spike/Matrix Spike Duplicate Recoveries **Sample ID:** 22-010642-0001

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	1.589	1.503	1.000	5.6%	< 30	158.9%	150.3%	50 - 150	Q
Acephate	0.000	1.106	1.112	1.000	0.5%	< 30	110.6%	111.2%	50 - 150	
Acequinocyl	0.000	4.809	4.807	4.000	0.0%	< 30	120.2%	120.2%	50 - 150	
Acetamiprid	0.000	0.503	0.498	0.400	0.9%	< 30	125.6%	124.5%	50 - 150	
Aldicarb	0.000	1.002	0.985	0.800	1.7%	< 30	125.2%	123.1%	50 - 150	
Azoxystrobin	0.000	0.536	0.549	0.400	2.4%	< 30	134.0%	137.2%	50 - 150	
Bifenazate	0.000	0.485	0.479	0.400	1.1%	< 30	121.2%	119.8%	50 - 150	
Bifenthrin	0.000	0.488	0.491	0.400	0.5%	< 30	122.0%	122.6%	50 - 150	
Boscalid	0.000	0.992	0.937	0.800	5.8%	< 30	124.0%	117.1%	50 - 150	
Carbaryl	0.000	0.533	0.534	0.400	0.2%	< 30	133.1%	133.4%	50 - 150	
Carbofuran	0.000	0.569	0.562	0.400	1.4%	< 30	142.4%	140.4%	50 - 150	
Chlorantraniliprole	0.000	0.470	0.464	0.400	1.3%	< 30	117.5%	116.0%	50 - 150	
Chlorfenapyr	0.000	2.251	2.287	2.000	1.6%	< 30	112.5%	114.3%	50 - 150	
Chlorpyrifos	0.000	0.612	0.604	0.400	1.3%	< 30	152.9%	151.0%	50 - 150	Q
Clofentezine	0.000	0.408	0.397	0.400	2.7%	< 30	102.0%	99.3%	50 - 150	
Cyfluthrin	0.000	1.904	1.802	2.000	5.5%	< 30	95.2%	90.1%	30 - 150	
Cypermethrin	0.000	1.824	1.795	2.000	1.6%	< 30	91.2%	89.7%	50 - 150	
Daminozide	0.000	0.964	0.941	2.000	2.4%	< 30	48.2%	47.1%	30 - 150	
Diazinon	0.000	0.583	0.581	0.400	0.3%	< 30	145.7%	145.3%	50 - 150	
Dichlorvos	0.000	2.335	2.305	2.000	1.3%	< 30	116.8%	115.3%	50 - 150	
Dimethoate	0.000	0.519	0.511	0.400	1.6%	< 30	129.9%	127.8%	50 - 150	
Ethoprophos	0.000	0.490	0.476	0.400	2.9%	< 30	122.5%	119.0%	50 - 150	
Etofenprox	0.000	1.153	1.126	0.800	2.4%	< 30	144.2%	140.8%	50 - 150	
Etoxazole	0.000	0.623	0.603	0.400	3.3%	< 30	155.8%	150.7%	50 - 150	Q
Fenoxycarb	0.000	0.487	0.480	0.400	1.5%	< 30	121.8%	120.0%	50 - 150	
Fenpyroximate	0.000	0.848	0.824	0.800	2.9%	< 30	106.0%	103.0%	50 - 150	
Fipronil	0.000	1.167	1.143	0.800	2.1%	< 30	145.9%	142.8%	50 - 150	
Flonicamid	0.000	1.047	1.009	1.000	3.7%	< 30	104.7%	100.9%	50 - 150	
Fludioxonil	0.000	0.786	0.774	0.800	1.6%	< 30	98.2%	96.7%	50 - 150	
Hexythiazox	0.000	1.319	1.301	1.000	1.4%	< 30	131.9%	130.1%	50 - 150	
Imazalil	0.000	0.443	0.431	0.400	2.6%	< 30	110.7%	107.9%	50 - 150	
Imidacloprid	0.000	0.729	0.714	0.800	2.0%	< 30	91.1%	89.3%	50 - 150	
Kresoxim-methyl	0.000	0.987	1.013	0.800	2.6%	< 30	123.4%	126.7%	50 - 150	
Malathion	0.000	0.489	0.475	0.400	2.9%	< 30	122.3%	118.7%	50 - 150	
Metalaxyl	0.000	0.486	0.469	0.400	3.5%	< 30	121.5%	117.3%	50 - 150	
Methiocarb	0.000	0.477	0.475	0.400	0.3%	< 30	119.2%	118.8%	50 - 150	
Methomyl	0.000	0.765	0.842	0.800	9.5%	< 30	95.7%	105.2%	50 - 150	
MGK-264	0.009	0.460	0.466	0.400	1.2%	< 30	112.9%	114.2%	50 - 150	
Myclobutanil	0.000	0.491	0.491	0.400	0.1%	< 30	122.9%	122.7%	50 - 150	
Naled	0.000	1.266	1.224	1.000	3.4%	< 30	126.6%	122.4%	50 - 150	
Oxamyl	0.000	2.179	2.006	2.000	8.3%	< 30	109.0%	100.3%	50 - 150	
Paclobutrazole	0.000	0.980	0.967	0.800	1.4%	< 30	122.5%	120.8%	50 - 150	
Parathion-Methyl	0.000	0.717	0.727	0.800	1.4%	< 30	89.6%	90.9%	30 - 150	
Permethrin	0.000	0.485	0.479	0.400	1.4%	< 30	121.3%	119.6%	50 - 150	
Phosmet	0.000	0.486	0.482	0.400	1.0%	< 30	121.6%	120.4%	50 - 150	
Piperonyl butoxide	0.000	2.844	2.902	2.000	2.0%	< 30	142.2%	145.1%	50 - 150	
Prallethrin	0.000	0.387	0.389	0.400	0.6%	< 30	96.7%	97.3%	50 - 150	
Propiconazole	0.000	1.105	1.096	0.800	0.8%	< 30	138.1%	137.0%	50 - 150	
Propoxur	0.000	0.533	0.533	0.400	0.1%	< 30	133.3%	133.1%	50 - 150	
Pyrethrin (Summe)	0.000	0.755	0.744	0.413	1.5%	< 30	182.9%	180.2%	50 - 150	Q
Pyridaben	0.000	0.528	0.528	0.400	0.1%	< 30	131.9%	132.0%	50 - 150	
Spinosad	0.000	0.594	0.591	0.388	0.6%	< 30	153.1%	152.2%	50 - 150	Q
Spiromesifen	0.000	0.476	0.468	0.400	1.7%	< 30	119.1%	117.0%	50 - 150	
Spirotetramat	0.000	0.375	0.371	0.400	0.9%	< 30	93.7%	92.9%	50 - 150	
Spiroxamine	0.000	0.929	0.923	0.800	0.6%	< 30	116.1%	115.4%	50 - 150	
Tebuconazole	0.000	1.076	1.057	0.800	1.8%	< 30	134.5%	132.1%	50 - 150	
Thiacloprid	0.000	0.532	0.513	0.400	3.7%	< 30	133.1%	128.2%	50 - 150	
Thiamethoxam	0.000	0.421	0.391	0.400	7.4%	< 30	105.4%	97.9%	50 - 150	
Trifloxystrobin	0.000	0.647	0.638	0.400	1.5%	< 30	161.8%	159.4%	50 - 150	Q

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 22-010980/D002.R000
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ORELAP#: OR100028
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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2207914**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0336	0.033	%	101	80.0 - 120	Acceptable	
CBDV	2	0.0352	0.033	%	106	80.0 - 120	Acceptable	
CBE	2	0.0331	0.033	%	99.4	80.0 - 120	Acceptable	
CBDA	1	0.0345	0.033	%	104	90.0 - 110	Acceptable	
CBGA	1	0.0334	0.033	%	101	80.0 - 120	Acceptable	
CBG	1	0.0370	0.036	%	103	80.0 - 120	Acceptable	
CBD	1	0.0371	0.036	%	103	90.0 - 110	Acceptable	
THCV	2	0.0345	0.033	%	103	80.0 - 120	Acceptable	
d8THCV	2	0.0355	0.033	%	106	80.0 - 120	Acceptable	
THCVA	2	0.0329	0.033	%	98.8	80.0 - 120	Acceptable	
CBN	1	0.0370	0.036	%	102	90.0 - 110	Acceptable	
exo-THC	2	0.0333	0.033	%	99.9	80.0 - 120	Acceptable	
d9THC	1	0.0385	0.039	%	99.9	90.0 - 110	Acceptable	
d8THC	1	0.0353	0.033	%	106	80.0 - 120	Acceptable	
CBL	2	0.0335	0.033	%	101	80.0 - 120	Acceptable	
9S-HHC	3	0.0310	0.033	%	93.0	80.0 - 120	Acceptable	
d10THC	1	0.0316	0.033	%	94.8	80.0 - 120	Acceptable	
CBC	2	0.0340	0.033	%	102	80.0 - 120	Acceptable	
9R-HHC	3	0.0288	0.033	%	86.5	80.0 - 120	Acceptable	
THCA	1	0.0322	0.032	%	101	90.0 - 110	Acceptable	
CBCA	2	0.0343	0.033	%	103	80.0 - 120	Acceptable	
CBLA	2	0.0350	0.033	%	105	80.0 - 120	Acceptable	
d8THCO	3	0.0329	0.033	%	98.8	80.0 - 120	Acceptable	
CBT	2	0.0340	0.033	%	102	80.0 - 120	Acceptable	
d9THCO	3	0.0337	0.033	%	101	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	
9S-HHC	<LOQ	0.003	%	< 0.003	Acceptable	
d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
9R-HHC	<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	
d8THCO	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<LOQ	0.003	%	< 0.003	Acceptable	
d9THCO	<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

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2207914**

Sample Duplicate Sample ID: **22-011150-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0037	0.0036	0.003	%	3.11	< 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	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.706	0.706	0.003	%	0.119	< 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	0.0040	0.0040	0.003	%	0.0081	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9S-HHC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0054	0.0054	0.003	%	1.28	< 20	Acceptable	
9R-HHC	<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	
d8THCO	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.0083	0.0082	0.003	%	0.352	< 20	Acceptable	
d9THCO	<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:

Columbia LABORATORIES
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12423 NE Whitaker Way
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503-254-1794

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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2208032

Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**
Propane	ND	<	200		434	572	µg/g	75.9	60	-	120	
Isobutane	ND	<	200		569	731	µg/g	77.8	60	-	120	
Butane	ND	<	200		553	731	µg/g	75.6	60	-	120	
2,2-Dimethylpropane	ND	<	200		728	936	µg/g	77.8	60	-	120	
Methanol	ND	<	200		1390	1650	µg/g	84.2	60	-	120	
Ethylene Oxide	ND	<	30		42.3	56.2	µg/g	75.3	60	-	120	
2-Methylbutane	ND	<	200		1400	1650	µg/g	84.8	60	-	120	
Pentane	ND	<	200		1410	1650	µg/g	85.5	60	-	120	
Ethanol	ND	<	200		1350	1660	µg/g	81.3	70	-	130	
Ethyl Ether	ND	<	200		1380	1630	µg/g	84.7	60	-	120	
2,2-Dimethylbutane	ND	<	30		162	189	µg/g	85.7	60	-	120	
Acetone	ND	<	200		1390	1650	µg/g	84.2	60	-	120	
2-Propanol	ND	<	200		1350	1650	µg/g	81.8	60	-	120	
Ethyl Formate	ND	<	500		1210	1610	µg/g	75.2	70	-	130	
Acetonitrile	ND	<	100		405	504	µg/g	80.4	60	-	120	
Methyl Acetate	ND	<	500		1360	1630	µg/g	83.4	70	-	130	
2,3-Dimethylbutane	ND	<	30		137	174	µg/g	78.7	60	-	120	
Dichloromethane	ND	<	60		440	521	µg/g	84.5	60	-	120	
2-Methylpentane	ND	<	30		162	187	µg/g	86.6	60	-	120	
MTBE	ND	<	500		1330	1600	µg/g	83.1	70	-	130	
3-Methylpentane	ND	<	30		161	188	µg/g	85.6	60	-	120	
Hexane	ND	<	30		159	182	µg/g	87.4	60	-	120	
1-Propanol	ND	<	500		1240	1610	µg/g	77.0	70	-	130	
Methylethylketone	ND	<	500		1270	1600	µg/g	79.4	70	-	130	
Ethyl acetate	ND	<	200		1330	1630	µg/g	81.6	60	-	120	
2-Butanol	ND	<	200		1310	1630	µg/g	80.4	60	-	120	
Tetrahydrofuran	ND	<	100		410	506	µg/g	81.0	60	-	120	
Cyclohexane	ND	<	200		1340	1640	µg/g	81.7	60	-	120	
2-methyl-1-propanol	ND	<	500		1260	1620	µg/g	77.8	70	-	130	
Benzene	ND	<	1		3.76	4.93	µg/g	76.3	60	-	120	
Isopropyl Acetate	ND	<	200		1280	1640	µg/g	78.0	60	-	120	
Heptane	ND	<	200		1300	1630	µg/g	79.8	60	-	120	
1-Butanol	ND	<	500		1350	1600	µg/g	84.4	70	-	130	
Propyl Acetate	ND	<	500		1230	1620	µg/g	75.9	70	-	130	
1,4-Dioxane	ND	<	100		374	493	µg/g	75.9	60	-	120	
2-Ethoxyethanol	ND	<	30		141	171	µg/g	82.5	60	-	120	
Methylisobutylketone	ND	<	500		1220	1620	µg/g	75.3	70	-	130	
3-Methyl-1-butanol	ND	<	500		1360	1610	µg/g	84.5	70	-	130	
Ethylene Glycol	ND	<	200		285	494	µg/g	57.7	60	-	120	Q6
Toluene	ND	<	100		372	506	µg/g	73.5	60	-	120	
Isobutyl Acetate	ND	<	500		1240	1620	µg/g	76.5	70	-	130	
1-Pentanol	ND	<	500		1500	1610	µg/g	93.2	70	-	130	
Butyl Acetate	ND	<	500		1290	1610	µg/g	80.1	70	-	130	
Ethylbenzene	ND	<	200		777	996	µg/g	78.0	60	-	120	
m,p-Xylene	ND	<	200		800	1010	µg/g	79.2	60	-	120	
o-Xylene	ND	<	200		791	979	µg/g	80.8	60	-	120	
Cumene	ND	<	30		159	188	µg/g	84.6	60	-	120	
Anisole	ND	<	500		1420	1610	µg/g	88.2	70	-	130	
DMSO	ND	<	500		1190	1600	µg/g	74.4	70	-	130	
1,2-dimethoxyethane	ND	<	50		149	190	µg/g	78.4	70	-	130	
Triethylamine	ND	<	500		1280	1610	µg/g	79.5	70	-	130	
N,N-dimethylformamide	ND	<	150		430	496	µg/g	86.7	70	-	130	
N,N-dimethylacetamide	ND	<	150		416	483	µg/g	86.1	70	-	130	
Pyridine	ND	<	50		113	167	µg/g	67.7	70	-	130	Q6
1,2-Dichloroethane	ND	<	1		0.742	1	µg/g	74.2	70	-	130	
Chloroform	ND	<	1		0.807	1	µg/g	80.7	70	-	130	
Trichloroethylene	ND	<	1		0.804	1	µg/g	80.4	70	-	130	

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QC - Sample Duplicate **Sample ID: 22-010966-0001**

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	
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	
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	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation
Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

µg/g- Microgram per gram or ppm

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	22-010980/D002.R000
Report Date:	09/23/2022
ORELAP#:	OR100028
Purchase Order:	
Received:	09/14/22 12:00

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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	Quantitaion 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.