Lazarus Naturals

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU GMY.RLX25 **BATCH #** EL66

PRODUCT NAME CBD Calm Gummies **SERVING SIZE** 2 gummies (10g)

LABORATORY: Columbia Laboratories **OREGON ACCREDITATION:** OR100028

LOQ: Limit Of Quantitation
LOD: Limit Of Detection

1 g = 10^{-3} kg = 10^{3} mg = 10^{6} µg 1 mg/kg = 1 ppm = 1000 ppb

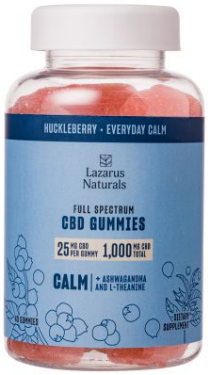
POTENCY	PER SERVING		PER GRAM		Percent
Cannabidiol (CBD)	**54.20**	**mg/serving**	5.24	mg/g	0.52 %
Total THC (d9-THC, THCA)	**2.02**	**mg/serving**	0.20	mg/g	0.02 %
Cannabigerol (CBG)	**0.40**	**mg/serving**	0.04	mg/g	0.00 %
Cannabinol (CBN)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
Cannabichromene (CBC)	**1.87**	**mg/serving**	0.19	mg/g	0.02 %
Tetrahydrocannabinolic Acid (THCA)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
Delta-9-THC (d9-THC)	**2.02**	**mg/serving**	0.20	mg/g	0.02 %
Delta-8-THC (d8-THC)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %

HEAVY METALS	PER SERVING		PER GRAM		REGULATORY ACTION LEVEL
Arsenic	**<LOQ**	**µg/serving**	<LOQ	µg/g	10 µg/day [1]
Cadmium	**<LOQ**	**µg/serving**	<LOQ	µg/g	4.1 µg/day [1]
Lead	**<LOQ**	**µg/serving**	<LOQ	µg/g	6 µg/day [1]
Mercury	**<LOQ**	**µg/serving**	<LOQ	µg/g	2 µg/day [1]

PESTICIDES	REGULATORY ACTION LEVEL
None of the other 59 pesticides tested found above limit of detection in the sample.	10 ppb [1]

RESIDUAL SOLVENTS	Results		REGULATORY ACTION LEVEL
Ethanol*	286	µg/g	50,000 mg/day
Heptane	<LOQ	µg/g	50,000 mg/day
None of the 34 residual solvents tested found above limit of quantitation in the sample.			

MICROBIAL	PASS/FAIL
Yeast & Mold	Pass
Coliform	Pass



1. American Herbal Pharmacopoeia. (2014). Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control. Washington DC: AHP.

*Ethanol is a food additive used in some of our ingredients. The FDA has labeled ethanol as Generally Recognized as Safe (GRAS). Many foods contain trace amounts of ethanol, including soy sauce, pasta sauces, fruits and juices, etc. Our products contain safe levels of ethanol and always below pertinent regulatory action levels.

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-000397/D005.R000
Report Date: 01/20/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/10/23 15:40

Customer: Etz Hayim Holdings
Product identity: FORM-GMY.RLX25-EL66
Client/Metrc ID: .
Laboratory ID: 23-000397-0003

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status
CBC per 1g	0.187		mg/1g	
CBD per 1g	5.24		mg/1g	
CBDV per 1g	0.0828		mg/1g	
CBG per 1g	0.0395		mg/1g	
CBT per 1g	0.132		mg/1g	
Δ9-THC per 1g	0.202		mg/1g	

CBD-Total per Serving Size 5.24 mg/1g

THC-Total per Serving Size 0.202 mg/1g

(Reported in milligrams per serving)

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Ethanol	286		

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: 01/10/23 15:40

Customer: Etz Hayim Holdings
16427 NE Airport Way
PORTLAND 97230
United States of America (USA)

Product identity: FORM-GMY.RLX25-EL66
Client/Metrc ID: .
Sample Date:
Laboratory ID: 23-000397-0003
Evidence of Cooling: No
Temp: 19.7
Relinquished by: client
Serving Size #1: 1 g

Sample Results

Potency per 1g **Method:** J AOAC 2015 V98-6 (mod)[b] **Units** mg/se **Batch:** 2300463 **Analyze:** 1/14/23 6:00:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	0.187		mg/1g	0.0317	
CBC-A per 1g	< LOQ		mg/1g	0.0317	
CBC-Total per 1g	0.187		mg/1g	0.0595	
CBD per 1g	5.24		mg/1g	0.0317	
CBD-A per 1g	< LOQ		mg/1g	0.0317	
CBD-Total per 1g	5.24		mg/1g	0.0595	
CBDV per 1g	0.0828		mg/1g	0.0317	
CBDV-A per 1g	< LOQ		mg/1g	0.0317	
CBDV-Total per 1g	0.0828		mg/1g	0.0592	
CBE per 1g	< LOQ		mg/1g	0.0317	
CBG per 1g	0.0395		mg/1g	0.0317	
CBG-A per 1g	< LOQ		mg/1g	0.0317	
CBG-Total per 1g	< LOQ		mg/1g	0.0592	
CBL per 1g	< LOQ		mg/1g	0.0317	
CBL-A per 1g	< LOQ		mg/1g	0.0317	
CBL-Total per 1g	< LOQ		mg/1g	0.0595	
CBN per 1g	< LOQ		mg/1g	0.0317	
CBT per 1g	0.132		mg/1g	0.0317	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0317	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0317	
Δ8-THC per 1g	< LOQ		mg/1g	0.0317	
Δ9-THC per 1g	0.202		mg/1g	0.0317	
exo-THC per 1g	< LOQ		mg/1g	0.0317	
THC-A per 1g	< LOQ		mg/1g	0.0317	
THC-Total per 1g	0.202		mg/1g	0.0595	
THCV per 1g	< LOQ		mg/1g	0.0317	
THCV-A per 1g	< LOQ		mg/1g	0.0317	
THCV-Total per 1g	< LOQ		mg/1g	0.0595	
Total Cannabinoids per 1g	5.90		mg/1g		

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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2300342	01/14/23	AOAC 991.14 (Petrifilm)þ		
Total Coliforms	< LOQ		cfu/g	10	2300342	01/14/23	AOAC 991.14 (Petrifilm)þ		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2300343	01/15/23	AOAC 2014.05 (RAPID)þ		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2300343	01/15/23	AOAC 2014.05 (RAPID)þ		

Solvents

Method: Residual Solvents by GC/MSþ **Units** µg/g **Batch** 2300638 **Analyze** 01/20/23 10:57 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		Ethanol	286		200		
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** 2300380 **Analyze** 01/12/23 02:26 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		Paclobutrazole¥	< 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	0.0163	2300511	01/17/23	AOAC 2013.06 (mod.)þ	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0163	2300511	01/17/23	AOAC 2013.06 (mod.)þ	pass	
Lead	< LOQ	0.500	mg/kg	0.0163	2300511	01/17/23	AOAC 2013.06 (mod.)þ	pass	
Mercury	< LOQ	0.100	mg/kg	0.00814	2300511	01/17/23	AOAC 2013.06 (mod.)þ	pass	

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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.

þ = ISO/IEC 17025:2017 accredited method.
¥ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram
g = g
µg/g = Microgram per gram
mg/kg = Milligram per kilogram = parts per million (ppm)
mg/1g = Milligram per 1g
% = Percentage of sample
% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

Columbia LABORATORIES
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Report Number: 23-000397/D005.R000
Report Date: 01/20/2023
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Purchase Order:
Received: 01/10/23 15:40

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 2300380	
Method Blank				Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Re	Limits		Notes
Abamectin	0.000	< 0.250		0.894	1.000	89.4	50.0	150	
Acephate	0.000	< 0.200		0.648	0.800	81.0	60.0	120	
Acequinocyl	0.000	< 1.000		3.361	4.000	84.0	40.0	160	
Acetamiprid	0.000	< 0.100		0.350	0.400	87.4	60.0	120	
Aldicarb	0.000	< 0.200		0.678	0.800	84.7	60.0	120	
Azoxystrobin	0.000	< 0.100		0.353	0.400	88.2	60.0	120	
Bifenazate	0.000	< 0.100		0.381	0.400	95.3	60.0	120	
Bifenthrin	0.000	< 0.100		0.346	0.400	86.5	50.0	150	
Boscalid	0.000	< 0.200		0.705	0.800	88.2	60.0	120	
Carbaryl	0.000	< 0.100		0.353	0.400	88.2	60.0	120	
Carbofuran	0.000	< 0.100		0.369	0.400	92.3	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.337	0.400	84.4	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.761	2.000	88.1	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.376	0.400	94.0	60.0	120	
Clofentezine	0.000	< 0.100		0.292	0.400	73.1	60.0	120	
Cyfluthrin	0.000	< 0.500		1.663	2.000	83.1	50.0	150	
Cypermethrin	0.000	< 0.500		1.753	2.000	87.6	50.0	150	
Daminozide	0.000	< 0.500		0.718	2.000	35.9	60.0	120	Q6
Diazinon	0.000	< 0.100		0.349	0.400	87.4	60.0	120	
Dichlorvos	0.000	< 0.500		1.590	2.000	79.5	60.0	120	
Dimethoate	0.000	< 0.100		0.357	0.400	89.2	60.0	120	
Ethoprophos	0.000	< 0.100		0.353	0.400	88.3	60.0	120	
Etofenprox	0.000	< 0.200		0.688	0.800	86.0	50.0	150	
Etoxazole	0.000	< 0.100		0.345	0.400	86.4	60.0	120	
Fenoxycarb	0.000	< 0.100		0.341	0.400	85.4	60.0	120	
Fenpyroximate	0.000	< 0.200		0.700	0.800	87.5	60.0	120	
Fipronil	0.000	< 0.200		0.702	0.800	87.8	60.0	120	
Flonicamid	0.000	< 0.250		0.936	1.000	93.6	60.0	120	
Fludioxonil	0.000	< 0.200		0.766	0.800	95.8	50.0	150	
Hexythiazox	0.000	< 0.250		0.873	1.000	87.3	60.0	120	
Imazalil	0.000	< 0.100		0.357	0.400	89.2	60.0	120	
Imidacloprid	0.000	< 0.200		0.697	0.800	87.1	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.700	0.800	87.5	60.0	120	
Malathion	0.000	< 0.100		0.339	0.400	84.8	60.0	120	
Metalaxyl	0.000	< 0.100		0.353	0.400	88.1	60.0	120	
Methiocarb	0.000	< 0.100		0.348	0.400	87.1	60.0	120	
Methomyl	0.000	< 0.200		0.746	0.800	93.2	60.0	120	
MGK-264	0.000	< 0.100		0.338	0.400	84.5	50.0	150	
Myclobutanil	0.000	< 0.100		0.347	0.400	86.7	60.0	120	
Naled	0.000	< 0.250		0.840	1.000	84.0	50.0	150	
Oxamyl	0.000	< 0.500		1.759	2.000	88.0	60.0	120	
Paclobutrazole	0.000	< 0.200		0.660	0.800	82.5	60.0	120	
Parathion-Methyl	0.000	< 0.100		0.373	0.400	93.2	50.0	150	
Permethrin	0.000	< 0.100		0.347	0.400	86.8	50.0	150	
Phosmet	0.000	< 0.100		0.344	0.400	85.9	50.0	150	
Piperonyl butoxide	0.000	< 0.500		1.672	2.000	83.6	60.0	120	
Prallethrin	0.000	< 0.100		0.337	0.400	84.3	60.0	120	
Propiconazole	0.001	< 0.200		0.674	0.800	84.3	60.0	120	
Propoxur	0.000	< 0.100		0.352	0.400	88.1	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.406	0.488	83.3	60.0	120	
Pyridaben	0.000	< 0.100		0.338	0.400	84.4	50.0	150	
Spinosad	0.000	< 0.100		0.334	0.388	86.2	50.0	150	
Spiromesifen	0.000	< 0.100		0.360	0.400	90.1	60.0	120	
Spirotetramat	0.000	< 0.100		0.354	0.400	88.5	60.0	120	
Spiroxamine	0.000	< 0.200		0.670	0.800	83.8	60.0	120	
Tebuconazole	0.000	< 0.200		0.664	0.800	83.0	60.0	120	
Thiacloprid	0.000	< 0.100		0.347	0.400	86.8	60.0	120	
Thiamethoxam	0.000	< 0.100		0.368	0.400	91.9	60.0	120	
Trifloxystrobin	0.000	< 0.100		0.348	0.400	87.0	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: 2300380
Matrix Spike/Matrix Spike Duplicate Recoveries | Sample ID: 23-0003990001

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Re	MSD % Re	Limits	Notes
Abamectin	0.000	0.833	0.935	1.000	11.6%	< 30	83.3%	93.5%	50 - 150	
Acephate	0.000	0.573	0.629	0.800	9.3%	< 30	71.7%	78.7%	50 - 150	
Acequinocyl	0.000	3.145	3.285	4.000	4.3%	< 30	78.6%	82.1%	50 - 150	
Acetamiprid	0.000	0.330	0.346	0.400	4.7%	< 30	82.4%	86.4%	50 - 150	
Aldicarb	0.000	0.643	0.672	0.800	4.3%	< 30	80.4%	84.0%	50 - 150	
Azoxystrobin	0.000	0.316	0.322	0.400	1.8%	< 30	79.1%	80.5%	50 - 150	
Bifenazate	0.000	0.335	0.348	0.400	3.7%	< 30	83.7%	86.9%	50 - 150	
Bifenthrin	0.000	0.324	0.331	0.400	2.3%	< 30	80.9%	82.8%	50 - 150	
Boscalid	0.000	0.619	0.637	0.800	2.9%	< 30	77.4%	79.6%	50 - 150	
Carbaryl	0.000	0.329	0.339	0.400	3.0%	< 30	82.3%	84.8%	50 - 150	
Carbofuran	0.000	0.343	0.354	0.400	3.1%	< 30	85.8%	88.5%	50 - 150	
Chlorantraniliprole	0.000	0.324	0.338	0.400	4.3%	< 30	81.0%	84.6%	50 - 150	
Chlorfenapyr	0.000	1.726	1.845	2.000	6.7%	< 30	86.3%	92.2%	50 - 150	
Chlorpyrifos	0.000	0.328	0.342	0.400	4.1%	< 30	82.0%	85.4%	50 - 150	
Clofentezine	0.000	0.049	0.052	0.400	4.2%	< 30	12.4%	12.9%	50 - 150	Q
Cyfluthrin	0.000	1.551	1.647	2.000	6.0%	< 30	77.5%	82.4%	30 - 150	
Cypermethrin	0.000	1.689	1.720	2.000	1.8%	< 30	84.4%	86.0%	50 - 150	
Daminozide	0.000	0.629	0.665	2.000	5.6%	< 30	31.4%	33.2%	30 - 150	
Diazinon	0.000	0.308	0.311	0.400	0.8%	< 30	77.1%	77.6%	50 - 150	
Dichlorvos	0.000	1.526	1.539	2.000	0.9%	< 30	76.3%	76.9%	50 - 150	
Dimethoate	0.000	0.335	0.349	0.400	4.1%	< 30	83.7%	87.2%	50 - 150	
Ethoprophos	0.000	0.319	0.336	0.400	5.3%	< 30	79.8%	84.1%	50 - 150	
Etofenprox	0.000	0.641	0.663	0.800	3.5%	< 30	80.1%	82.9%	50 - 150	
Etoxazole	0.000	0.315	0.337	0.400	6.5%	< 30	78.9%	84.1%	50 - 150	
Fenoxycarb	0.000	0.307	0.322	0.400	4.6%	< 30	76.9%	80.5%	50 - 150	
Fenpyroximate	0.000	0.730	0.773	0.800	5.7%	< 30	91.2%	96.6%	50 - 150	
Fipronil	0.000	0.658	0.683	0.800	3.7%	< 30	82.3%	85.3%	50 - 150	
Flonicamid	0.000	0.919	0.961	1.000	4.5%	< 30	91.9%	96.1%	50 - 150	
Fludioxonil	0.000	0.729	0.693	0.800	5.0%	< 30	91.1%	86.6%	50 - 150	
Hexythiazox	0.000	0.794	0.812	1.000	2.2%	< 30	79.4%	81.2%	50 - 150	
Imazalil	0.000	0.330	0.348	0.400	5.4%	< 30	82.4%	87.0%	50 - 150	
Imidacloprid	0.000	0.648	0.680	0.800	4.8%	< 30	81.0%	84.9%	50 - 150	
Kresoxim-methyl	0.000	0.634	0.661	0.800	4.1%	< 30	79.3%	82.6%	50 - 150	
Malathion	0.000	0.317	0.327	0.400	3.0%	< 30	79.3%	81.8%	50 - 150	
Metalaxyl	0.000	0.323	0.330	0.400	2.2%	< 30	80.7%	82.6%	50 - 150	
Methiocarb	0.000	0.326	0.340	0.400	4.3%	< 30	81.4%	85.0%	50 - 150	
Methomyl	0.000	0.707	0.747	0.800	5.5%	< 30	88.4%	93.4%	50 - 150	
MGK-264	0.000	0.308	0.318	0.400	3.0%	< 30	77.0%	79.4%	50 - 150	
Myclobutanil	0.000	0.317	0.338	0.400	6.6%	< 30	79.2%	84.6%	50 - 150	
Naled	0.000	0.795	0.820	1.000	3.1%	< 30	79.5%	82.0%	50 - 150	
Oxamyl	0.000	1.734	1.813	2.000	4.4%	< 30	86.7%	90.6%	50 - 150	
Paclobutrazole	0.000	0.607	0.639	0.800	5.1%	< 30	75.9%	79.9%	50 - 150	
Parathion-Methyl	0.000	0.317	0.306	0.400	3.7%	< 30	79.4%	76.4%	30 - 150	
Permethrin	0.000	0.319	0.330	0.400	3.5%	< 30	79.6%	82.5%	50 - 150	
Phosmet	0.000	0.322	0.326	0.400	1.4%	< 30	80.4%	81.6%	50 - 150	
Piperonyl butoxide	0.000	1.580	1.611	2.000	1.9%	< 30	79.0%	80.5%	50 - 150	
Prallethrin	0.000	0.307	0.320	0.400	4.1%	< 30	76.8%	80.0%	50 - 150	
Propiconazole	0.000	0.619	0.644	0.800	3.9%	< 30	77.4%	80.5%	50 - 150	
Propoxur	0.000	0.328	0.336	0.400	2.5%	< 30	82.0%	84.1%	50 - 150	
Pyrethrin (Summe)	0.000	0.337	0.353	0.488	4.5%	< 30	69.1%	72.4%	50 - 150	
Pyridaben	0.000	0.300	0.314	0.400	4.5%	< 30	74.9%	78.4%	50 - 150	
Spinosad	0.000	0.318	0.336	0.388	5.5%	< 30	82.0%	86.7%	50 - 150	
Spiromesifen	0.000	0.341	0.349	0.400	2.2%	< 30	85.3%	87.2%	50 - 150	
Spirotetramat	0.000	0.326	0.335	0.400	2.5%	< 30	81.6%	83.7%	50 - 150	
Spiroxamine	0.000	0.638	0.640	0.800	0.3%	< 30	79.8%	80.1%	50 - 150	
Tebuconazole	0.000	0.610	0.639	0.800	4.7%	< 30	76.2%	79.8%	50 - 150	
Thiacloprid	0.000	0.341	0.348	0.400	2.3%	< 30	85.2%	87.1%	50 - 150	
Thiamethoxam	0.000	0.344	0.352	0.400	2.1%	< 30	86.1%	87.9%	50 - 150	
Trifloxystrobin	0.000	0.320	0.333	0.400	4.0%	< 30	80.1%	83.4%	50 - 150	

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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503-254-1794

Report Number: 23-000397/D005.R000
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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2300463**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0334	0.033	%	99.9	80.0 - 120	Acceptable	
CBDV	2	0.0354	0.035	%	100	80.0 - 120	Acceptable	
CBE	2	0.0347	0.035	%	99.1	80.0 - 120	Acceptable	
CBDA	1	0.0312	0.032	%	97.4	90.0 - 110	Acceptable	
CBGA	1	0.0315	0.032	%	98.2	80.0 - 120	Acceptable	
CBG	1	0.0324	0.033	%	98.4	80.0 - 120	Acceptable	
CBD	1	0.0313	0.032	%	96.5	90.0 - 110	Acceptable	
THCV	2	0.0351	0.035	%	99.1	80.0 - 120	Acceptable	
d8THCV	2	0.0348	0.034	%	101	80.0 - 120	Acceptable	
THCVA	2	0.0328	0.033	%	99.5	80.0 - 120	Acceptable	
CBN	1	0.0335	0.034	%	98.7	80.0 - 120	Acceptable	
exo-THC	2	0.0324	0.032	%	100	80.0 - 120	Acceptable	
d9THC	1	0.0352	0.035	%	101	90.0 - 110	Acceptable	
d8THC	1	0.0319	0.033	%	95.3	90.0 - 110	Acceptable	
CBL	2	0.0346	0.035	%	100	80.0 - 120	Acceptable	
d10THC	1	0.0154	0.016	%	97.6	80.0 - 120	Acceptable	
CBC	2	0.0342	0.035	%	98.8	80.0 - 120	Acceptable	
THCA	1	0.0317	0.032	%	100	90.0 - 110	Acceptable	
CBCA	2	0.0342	0.034	%	99.4	80.0 - 120	Acceptable	
CBLA	2	0.0346	0.035	%	99.1	80.0 - 120	Acceptable	
CBT	2	0.0344	0.035	%	97.9	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBDV	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBE	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBDA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBGA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBG	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBD	<LOQ	0.0006	%	< 0.0006	Acceptable	
THCV	<LOQ	0.0006	%	< 0.0006	Acceptable	
d8THCV	<LOQ	0.0006	%	< 0.0006	Acceptable	
THCVA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBN	<LOQ	0.0006	%	< 0.0006	Acceptable	
exo-THC	<LOQ	0.0006	%	< 0.0006	Acceptable	
d9THC	<LOQ	0.0006	%	< 0.0006	Acceptable	
d8THC	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBL	<LOQ	0.0006	%	< 0.0006	Acceptable	
d10THC	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBC	<LOQ	0.0006	%	< 0.0006	Acceptable	
THCA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBCA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBLA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBT	<LOQ	0.0006	%	< 0.0006	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

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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2300463**

Sample Duplicate Sample ID: **23-000249-0001**

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	0.0172	0.0172	0.003	%	0.159	< 20	Acceptable	
CBD	0.587	0.590	0.003	%	0.512	< 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	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.00543	0.00546	0.003	%	0.548	< 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:

Columbia LABORATORIES
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Laboratory Quality Control Results

Residual Solvents — Batch ID: 2300638

Method Blank					Laboratory Control Sample							
Analyte	Result		LOQ	Notes	Result	Spike	Units	%Rec	Limits			Notes
Propane	ND	<	200		545	572	µg/g	95.3	60	-	120	
Isobutane	ND	<	200		640	731	µg/g	87.6	60	-	120	
Butane	ND	<	200		625	731	µg/g	85.5	60	-	120	
2,2-Dimethylpropane	ND	<	200		839	936	µg/g	89.6	60	-	120	
Methanol	ND	<	200		1680	1620	µg/g	103.7	60	-	120	
Ethylene Oxide	ND	<	30		49.8	56.2	µg/g	88.6	60	-	120	
2-Methylbutane	ND	<	200		1400	1610	µg/g	87.0	60	-	120	
Pentane	ND	<	200		1400	1600	µg/g	87.5	60	-	120	
Ethanol	ND	<	200		1180	1610	µg/g	73.3	70	-	130	
Ethyl Ether	ND	<	200		1410	1630	µg/g	86.5	60	-	120	
2,2-Dimethylbutane	ND	<	30		161	171	µg/g	94.2	60	-	120	
Acetone	ND	<	200		1510	1630	µg/g	92.6	60	-	120	
2-Propanol	ND	<	200		1520	1620	µg/g	93.8	60	-	120	
Ethyl Formate	ND	<	500		1600	1670	µg/g	95.8	70	-	130	
Acetonitrile	ND	<	100		435	498	µg/g	87.3	60	-	120	
Methyl Acetate	ND	<	500		1640	1730	µg/g	94.8	70	-	130	
2,3-Dimethylbutane	ND	<	30		151	171	µg/g	88.3	60	-	120	
Dichloromethane	ND	<	60		433	483	µg/g	89.6	60	-	120	
2-Methylpentane	ND	<	30		143	168	µg/g	85.1	60	-	120	
MTBE	ND	<	500		1500	1650	µg/g	90.9	70	-	130	
3-Methylpentane	ND	<	30		133	167	µg/g	79.6	60	-	120	
Hexane	ND	<	30		202	182	µg/g	111.0	60	-	120	
1-Propanol	ND	<	500		1400	1620	µg/g	86.4	70	-	130	
Methylethylketone	ND	<	500		1610	1620	µg/g	99.4	70	-	130	
Ethyl acetate	ND	<	200		1520	1610	µg/g	94.4	60	-	120	
2-Butanol	ND	<	200		1450	1600	µg/g	90.6	60	-	120	
Tetrahydrofuran	ND	<	100		386	483	µg/g	79.9	60	-	120	
Cyclohexane	ND	<	200		1520	1610	µg/g	94.4	60	-	120	
2-methyl-1-propanol	ND	<	500		1250	1620	µg/g	77.2	70	-	130	
Benzene	ND	<	1		4.05	5.02	µg/g	80.7	60	-	120	
Isopropyl Acetate	ND	<	200		1430	1620	µg/g	88.3	60	-	120	
Heptane	ND	<	200		1580	1610	µg/g	98.1	60	-	120	
1-Butanol	ND	<	500		1010	1630	µg/g	62.0	70	-	130	Q6
Propyl Acetate	ND	<	500		1290	1610	µg/g	80.1	70	-	130	
1,4-Dioxane	ND	<	100		415	491	µg/g	84.5	60	-	120	
2-Ethoxyethanol	ND	<	30		112	181	µg/g	61.9	60	-	120	
Methylisobutylketone	ND	<	500		1420	1620	µg/g	87.7	70	-	130	
3-Methyl-1-butanol	ND	<	500		1220	1630	µg/g	74.8	70	-	130	
Ethylene Glycol	ND	<	200		513	484	µg/g	106.0	60	-	120	
Toluene	ND	<	100		400	485	µg/g	82.5	60	-	120	
Isobutyl Acetate	ND	<	500		1550	1630	µg/g	95.1	70	-	130	
1-Pentanol	ND	<	500		1230	1620	µg/g	75.9	70	-	130	
Butyl Acetate	ND	<	500		1390	1620	µg/g	85.8	70	-	130	
Ethylbenzene	ND	<	200		838	969	µg/g	86.5	60	-	120	
m,p-Xylene	ND	<	200		853	994	µg/g	85.8	60	-	120	
o-Xylene	ND	<	200		770	967	µg/g	79.6	60	-	120	
Cumene	ND	<	30		129	171	µg/g	75.4	60	-	120	
Anisole	ND	<	500		1010	1630	µg/g	62.0	70	-	130	Q6
DMSO	ND	<	500		1410	1680	µg/g	83.9	70	-	130	
1,2-dimethoxyethane	ND	<	50		159	169	µg/g	94.1	70	-	130	
Triethylamine	ND	<	500		1540	1630	µg/g	94.5	70	-	130	
N,N-dimethylformamide	ND	<	150		459	482	µg/g	95.2	70	-	130	
N,N-dimethylacetamide	ND	<	150		333	510	µg/g	65.3	70	-	130	Q6
Pyridine	ND	<	50		174	203	µg/g	85.7	70	-	130	
Sulfolane	ND	<	50		133	172	µg/g	77.3	70	-	130	
1,2-Dichloroethane	ND	<	1		0.801	1	µg/g	80.1	70	-	130	
Chloroform	ND	<	1		0.83	1	µg/g	83.0	70	-	130	
Trichloroethylene	ND	<	1		0.825	1	µg/g	82.5	70	-	130	
1,1-Dichloroethane	ND	<	1		0.779	1	µg/g	77.9	70	-	130	

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QC- Sample Duplicate — Sample ID: 23-000249-0001

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	
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
Q6- Quality control outside QClimits. Data acceptable basedon 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:	23-000397/D005.R000
Report Date:	01/20/2023
ORELAP#:	OR100028
Purchase Order:	
Received:	01/10/23 15:40

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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.