Lazarus Naturals

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU TN.FS.SAL20 **BATCH #** FE06

PRODUCT NAME CBD Pet Oil Tincture - Joint **SERVING SIZE** 1 mL

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)	**19.75**	**mg/serving**	21.70	mg/g	2.17	%
Total THC (d9-THC, THCA)	**0.54**	**mg/serving**	0.59	mg/g	0.06	%
Cannabigerol (CBG)	**0.30**	**mg/serving**	0.33	mg/g	0.03	%
Cannabinol (CBN)	**0.07**	**mg/serving**	0.07	mg/g	0.01	%
Cannabichromene (CBC)	**0.83**	**mg/serving**	0.91	mg/g	0.09	%
Tetrahydrocannabinolic Acid (THCA)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ	%
Delta-9-THC (d9-THC)	**0.54**	**mg/serving**	0.59	mg/g	0.06	%
Delta-8-THC (d8-THC)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ	%

HEAVY METALS	PER SERVING		PER GRAM		REGULATORY ACTION LEVEL	
Arsenic	**1.43**	**µg/serving**	1.57	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	<LOQ	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.

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-006209/D005.R000
Report Date: 06/07/2023
ORELAP#: OR100028
Purchase Order:
Received: 05/24/23 16:17

Customer: Etz Hayim Holdings
Product identity: FORM-TN.FS.SAL20-FE06
Client/Metrc ID: .
Laboratory ID: 23-006209-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status
CBC per 1g	0.914		mg/1g	
CBD per 1g	21.7		mg/1g	
CBDV per 1g	0.131		mg/1g	
CBE per 1g	0.360		mg/1g	
CBG per 1g	0.332		mg/1g	
CBN per 1g	0.0727		mg/1g	
CBT per 1g	0.466		mg/1g	
Δ9-THC per 1g	0.594		mg/1g	

CBD-Total per Serving Size 21.7 mg/1g

THC-Total per Serving Size 0.594 mg/1g

(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Analyte	Result	Units	Limit	Status
Arsenic¥	1.57	mg/kg		

Microbiology:

Less than LOQ for all analytes.

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503-254-1794

Report Number: 23-006209/D005.R000
Report Date: 06/07/2023
ORELAP#: OR100028
Purchase Order:
Received: 05/24/23 16:17

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

Product identity: FORM-TN.FS.SAL20-FE06
Client/Metrc ID: .
Sample Date:
Laboratory ID: 23-006209-0001
Evidence of Cooling: No
Temp: 25.3
Relinquished by: courier
Serving Size #1: 1 g

Sample Results

Potency per 1g **Method:** J AOAC 2015 V98-6 (mod)[b] **Units** mg/se **Batch:** 2307675 **Analyze:** 5/26/23 3:10:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	0.914		mg/1g	0.0305	
CBC-A per 1g	< LOQ		mg/1g	0.0305	
CBC-Total per 1g	0.914		mg/1g	0.0572	
CBD per 1g	21.7		mg/1g	0.305	
CBD-A per 1g	< LOQ		mg/1g	0.0305	
CBD-Total per 1g	21.7		mg/1g	0.332	
CBDV per 1g	0.131		mg/1g	0.0305	
CBDV-A per 1g	< LOQ		mg/1g	0.0305	
CBDV-Total per 1g	0.131		mg/1g	0.0569	
CBE per 1g	0.360		mg/1g	0.0305	
CBG per 1g	0.332		mg/1g	0.0305	
CBG-A per 1g	< LOQ		mg/1g	0.0305	
CBG-Total per 1g	0.332		mg/1g	0.0569	
CBL per 1g	< LOQ		mg/1g	0.0305	
CBL-A per 1g	< LOQ		mg/1g	0.0305	
CBL-Total per 1g	< LOQ		mg/1g	0.0572	
CBN per 1g	0.0727		mg/1g	0.0305	
CBT per 1g	0.466		mg/1g	0.0305	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0305	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0305	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0305	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0610	
Δ8-THC per 1g	< LOQ		mg/1g	0.0305	
Δ9-THC per 1g	0.594		mg/1g	0.0305	
delta-9-THCP per 1g	< LOQ		mg/1g	0.0305	
exo-THC per 1g	< LOQ		mg/1g	0.0305	
THC-A per 1g	< LOQ		mg/1g	0.0305	
THC-Total per 1g	0.594		mg/1g	0.0572	
THCV per 1g	< LOQ		mg/1g	0.0305	
THCV-A per 1g	< LOQ		mg/1g	0.0305	

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Purchase Order:
Received: 05/24/23 16:17

Potency per 1g

Method: J AOAC 2015 V98-6 (mod)þ **Units** mg/se **Batch:** 2307675 **Analyze:** 5/26/23 3:10:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total per 1g	< LOQ		mg/1g	0.0573	
Total Cannabinoids per 1g	24.6		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2307783	06/02/23	AOAC 991.14 (Petrifilm)þ		
Total Coliforms	< LOQ		cfu/g	10	2307783	06/02/23	AOAC 991.14 (Petrifilm)þ		
Mold (RAPID Petrifilm)	< LOQ		cfu/mL	10	2307784	06/02/23	AOAC 2014.05 (RAPID)þ		
Yeast (RAPID Petrifilm)	< LOQ		cfu/mL	10	2307784	06/02/23	AOAC 2014.05 (RAPID)þ		

Solvents

Method: Residual Solvents by GC/MSþ **Units** µg/g **Batch** 2307994 **Analyze** 06/07/23 02:18 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		Ethanol	< LOQ		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** 2307861 **Analyze** 06/02/23 12:29 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¥	1.57		mg/kg	0.0964	2307833	06/01/23	AOAC 2013.06 (mod.)þ		
Cadmium¥	< LOQ		mg/kg	0.0964	2307833	06/01/23	AOAC 2013.06 (mod.)þ		
Lead¥	< LOQ		mg/kg	0.0964	2307833	06/01/23	AOAC 2013.06 (mod.)þ		
Mercury¥	< LOQ		mg/kg	0.0482	2307833	06/01/23	AOAC 2013.06 (mod.)þ		

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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.

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

Units of Measure

cfu/g = Colony forming units per gram
cfu/mL = Colony forming units per milliliter
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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Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2307675**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0285	0.0283	%	101	80.0 - 120	Acceptable	
CBDV	2	0.0299	0.0291	%	102	80.0 - 120	Acceptable	
CBE	2	0.0339	0.0344	%	98.6	80.0 - 120	Acceptable	
CBDA	1	0.0297	0.0311	%	95.3	90.0 - 110	Acceptable	
CBGA	1	0.0311	0.0311	%	100	80.0 - 120	Acceptable	
CBG	1	0.0322	0.0322	%	100	80.0 - 120	Acceptable	
CBD	1	0.0319	0.0323	%	98.8	90.0 - 110	Acceptable	
THCV	2	0.0207	0.0201	%	103	80.0 - 120	Acceptable	
d8THCV	2	0.0265	0.0268	%	98.7	80.0 - 120	Acceptable	
THCVA	2	0.0303	0.0299	%	101	80.0 - 120	Acceptable	
CBN	1	0.0334	0.0329	%	102	80.0 - 120	Acceptable	
exo-THC	2	0.0293	0.0292	%	100	80.0 - 120	Acceptable	
d9THC	1	0.0341	0.0341	%	99.9	90.0 - 110	Acceptable	
d8THC	1	0.0427	0.0420	%	101	90.0 - 110	Acceptable	
9S-d10THC	1	0.0241	0.0240	%	100	80.0 - 120	Acceptable	
CBL	2	0.0323	0.0315	%	103	80.0 - 120	Acceptable	
9R-d10THC	1	0.0309	0.0310	%	99.5	80.0 - 120	Acceptable	
CBC	2	0.0310	0.0309	%	100	80.0 - 120	Acceptable	
THCA	1	0.0312	0.0314	%	99.4	90.0 - 110	Acceptable	
CBCA	2	0.0331	0.0326	%	101	80.0 - 120	Acceptable	
CBLA	2	0.0331	0.0331	%	100.0	80.0 - 120	Acceptable	
d9THCP	2	0.0323	0.0321	%	101	80.0 - 120	Acceptable	
CBT	2	0.0329	0.0327	%	101	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00314	%	< 0.00314	Acceptable	
CBDV	<LOQ	0.00314	%	< 0.00314	Acceptable	
CBE	<LOQ	0.00314	%	< 0.00314	Acceptable	
CBDA	<LOQ	0.00314	%	< 0.00314	Acceptable	
CBGA	<LOQ	0.00314	%	< 0.00314	Acceptable	
CBG	<LOQ	0.00314	%	< 0.00314	Acceptable	
CBD	<LOQ	0.00314	%	< 0.00314	Acceptable	
THCV	<LOQ	0.00314	%	< 0.00314	Acceptable	
d8THCV	<LOQ	0.00314	%	< 0.00314	Acceptable	
THCVA	<LOQ	0.00314	%	< 0.00314	Acceptable	
CBN	<LOQ	0.00314	%	< 0.00314	Acceptable	
exo-THC	<LOQ	0.00314	%	< 0.00314	Acceptable	
d9THC	<LOQ	0.00314	%	< 0.00314	Acceptable	
d8THC	<LOQ	0.00314	%	< 0.00314	Acceptable	
9S-d10THC	<LOQ	0.00314	%	< 0.00314	Acceptable	
CBL	<LOQ	0.00314	%	< 0.00314	Acceptable	
9R-d10THC	<LOQ	0.00314	%	< 0.00314	Acceptable	
CBC	<LOQ	0.00314	%	< 0.00314	Acceptable	
THCA	<LOQ	0.00314	%	< 0.00314	Acceptable	
CBCA	<LOQ	0.00314	%	< 0.00314	Acceptable	
CBLA	<LOQ	0.00314	%	< 0.00314	Acceptable	
d9THCP	<LOQ	0.00314	%	< 0.00314	Acceptable	
CBT	<LOQ	0.00314	%	< 0.00314	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: 2307675**

Sample Duplicate Sample ID: **23-006168-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBDV	0.0389	0.0399	0.00327	%	2.58	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBG	0.470	0.472	0.00327	%	0.505	< 20	Acceptable	
CBD	16.9	16.6	0.00327	%	1.90	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
d9THC	0.00743	0.00724	0.00327	%	2.58	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBC	0.139	0.140	0.00327	%	0.454	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00327	%	NA	< 20	Acceptable	
CBT	0.00882	0.00879	0.00327	%	0.319	< 20	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 Pesticide Quality Control Results

AOAC 2007.1 & EN 15662			Units: mg/Kg				Batch ID: 2307861			
Method Blank				Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits		Notes
Abamectin	0.000	< 0.250		1.059	1.000	105.9	50.0	150	
Acephate	0.039	< 0.200		0.657	0.800	82.1	60.0	120	
Acequinocyl	0.000	< 1.000		4.176	4.000	104.4	40.0	160	
Acetamiprid	0.002	< 0.100		0.380	0.400	95.0	60.0	120	
Aldicarb	0.000	< 0.200		0.869	0.800	108.6	60.0	120	
Azoxystrobin	0.008	< 0.100		0.380	0.400	95.0	60.0	120	
Bifenazate	0.000	< 0.100		0.401	0.400	100.3	60.0	120	
Bifenthrin	0.000	< 0.100		0.399	0.400	99.7	50.0	150	
Boscalid	0.000	< 0.200		0.785	0.800	98.1	60.0	120	
Carbaryl	0.000	< 0.100		0.379	0.400	94.7	60.0	120	
Carbofuran	0.000	< 0.100		0.387	0.400	96.7	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.380	0.400	95.1	60.0	120	
Chlorfenapyr	0.000	< 0.500		2.083	2.000	104.1	60.0	120	
Chlorpyrifos	0.009	< 0.100		0.345	0.400	86.3	60.0	120	
Clofentezine	0.000	< 0.100		0.393	0.400	98.3	60.0	120	
Cyfluthrin	0.000	< 0.500		1.909	2.000	95.4	50.0	150	
Cypermethrin	0.000	< 0.500		1.927	2.000	96.4	50.0	150	
Daminozide	0.000	< 0.500		0.734	2.000	*36.7*	60.0	120	Q6
Diazinon	0.000	< 0.100		0.418	0.400	104.5	60.0	120	
Dichlorvos	0.011	< 0.500		1.883	2.000	94.2	60.0	120	
Dimethoate	0.002	< 0.100		0.374	0.400	93.5	60.0	120	
Ethoprophos	0.003	< 0.100		0.376	0.400	94.1	60.0	120	
Etofenprox	0.005	< 0.200		0.795	0.800	99.4	50.0	150	
Etoxazole	0.000	< 0.100		0.408	0.400	102.0	60.0	120	
Fenoxycarb	0.000	< 0.100		0.408	0.400	102.1	60.0	120	
Fenpyroximate	0.003	< 0.200		0.807	0.800	100.9	60.0	120	
Fipronil	0.000	< 0.200		0.814	0.800	101.7	60.0	120	
Flonicamid	0.000	< 0.250		0.921	1.000	92.1	60.0	120	
Fludioxonil	0.000	< 0.200		0.754	0.800	94.2	50.0	150	
Hexythiazox	0.000	< 0.250		0.960	1.000	96.0	60.0	120	
Imazalil	0.000	< 0.100		0.391	0.400	97.8	60.0	120	
Imidacloprid	0.022	< 0.200		0.781	0.800	97.6	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.829	0.800	103.7	60.0	120	
Malathion	0.000	< 0.100		0.394	0.400	98.4	60.0	120	
Metalaxyl	0.000	< 0.100		0.410	0.400	102.5	60.0	120	
Methiocarb	0.000	< 0.100		0.405	0.400	101.3	60.0	120	
Methomyl	0.000	< 0.200		0.769	0.800	96.2	60.0	120	
MGK-264	0.000	< 0.100		0.427	0.400	106.7	50.0	150	
Myclobutanil	0.000	< 0.100		0.370	0.400	92.6	60.0	120	
Naled	0.000	< 0.250		0.946	1.000	94.6	50.0	150	
Oxamyl	0.000	< 0.500		1.785	2.000	89.2	60.0	120	
Paclobutrazole	0.000	< 0.200		0.810	0.800	101.3	60.0	120	
Parathion-Methyl	0.000	< 0.100		0.433	0.400	108.3	50.0	150	
Permethrin	0.000	< 0.100		0.378	0.400	94.4	50.0	150	
Phosmet	0.000	< 0.100		0.424	0.400	106.0	50.0	150	
Piperonyl butoxide	0.000	< 0.500		2.156	2.000	107.8	60.0	120	
Prallethrin	0.000	< 0.100		0.429	0.400	107.2	60.0	120	
Propiconazole	0.005	< 0.200		0.787	0.800	98.4	60.0	120	
Propoxur	0.003	< 0.100		0.369	0.400	92.3	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.508	0.488	104.1	60.0	120	
Pyridaben	0.004	< 0.100		0.409	0.400	102.3	50.0	150	
Spinosad	0.000	< 0.100		0.394	0.388	101.6	50.0	150	
Spiromesifen	0.000	< 0.100		0.384	0.400	96.0	60.0	120	
Spirotetramat	0.000	< 0.100		0.376	0.400	94.0	60.0	120	
Spiroxamine	0.000	< 0.200		0.825	0.800	103.1	60.0	120	
Tebuconazole	0.000	< 0.200		0.798	0.800	99.7	60.0	120	
Thiacloprid	0.000	< 0.100		0.386	0.400	96.4	60.0	120	
Thiamethoxam	0.000	< 0.100		0.386	0.400	96.6	60.0	120	
Trifloxystrobin	0.001	< 0.100		0.397	0.400	99.3	60.0	120	

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | **Units:** mg/Kg | **Batch ID:** 2307861

Matrix Spike/Matrix Spike Duplicate Recoveries | **Sample ID:** 23-006209-0001

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.508	0.569	1.000	11.3%	< 30	50.8%	56.9%	50 - 150	
Acephate	0.042	0.707	0.686	0.800	3.2%	< 30	83.1%	80.6%	50 - 150	
Acequinocyl	0.000	0.650	0.669	4.000	2.8%	< 30	16.3%	16.7%	50 - 150	Q
Acetamiprid	0.000	0.361	0.364	0.400	0.8%	< 30	90.2%	91.0%	50 - 150	
Aldicarb	0.000	0.831	0.860	0.800	3.5%	< 30	103.9%	107.6%	50 - 150	
Azoxystrobin	0.007	0.315	0.316	0.400	0.5%	< 30	76.9%	77.4%	50 - 150	
Bifenazate	0.010	0.328	0.344	0.400	4.9%	< 30	79.5%	83.4%	50 - 150	
Bifenthrin	0.000	0.000	0.000	0.400	NA	< 30	0.0%	0.0%	50 - 150	Q, R1
Boscalid	0.000	0.674	0.697	0.800	3.4%	< 30	84.3%	87.1%	50 - 150	
Carbaryl	0.000	0.332	0.324	0.400	2.4%	< 30	83.0%	81.1%	50 - 150	
Carbofuran	0.000	0.347	0.347	0.400	0.1%	< 30	86.6%	86.8%	50 - 150	
Chlorantraniliprole	0.000	0.355	0.372	0.400	4.7%	< 30	88.8%	93.0%	50 - 150	
Chlorfenapyr	0.000	1.364	1.038	2.000	27.1%	< 30	68.2%	51.9%	50 - 150	
Chlorpyrifos	0.010	0.328	0.316	0.400	3.8%	< 30	79.5%	76.5%	50 - 150	
Clofentezine	0.001	0.305	0.321	0.400	4.9%	< 30	76.0%	79.8%	50 - 150	
Cyfluthrin	0.000	1.104	1.094	2.000	1.0%	< 30	55.2%	54.7%	30 - 150	
Cypermethrin	0.000	1.028	1.084	2.000	5.3%	< 30	51.4%	54.2%	50 - 150	
Daminozide	0.000	0.687	0.716	2.000	4.0%	< 30	34.4%	35.8%	30 - 150	
Diazinon	0.000	0.303	0.315	0.400	3.8%	< 30	75.8%	78.7%	50 - 150	
Dichlorvos	0.008	1.742	1.749	2.000	0.4%	< 30	86.7%	87.1%	50 - 150	
Dimethoate	0.002	0.370	0.374	0.400	1.3%	< 30	91.8%	93.0%	50 - 150	
Ethoprophos	0.003	0.307	0.314	0.400	2.3%	< 30	75.9%	77.6%	50 - 150	
Etofenprox	0.000	0.298	0.299	0.800	0.5%	< 30	37.2%	37.4%	50 - 150	Q
Etoxazole	0.001	0.298	0.305	0.400	2.2%	< 30	74.4%	76.1%	50 - 150	
Fenoxycarb	0.000	0.328	0.347	0.400	5.9%	< 30	81.9%	86.9%	50 - 150	
Fenpyroximate	0.000	0.334	0.337	0.800	0.8%	< 30	41.7%	42.1%	50 - 150	Q
Fipronil	0.017	0.554	0.562	0.800	1.6%	< 30	67.1%	68.2%	50 - 150	
Flonicamid	0.000	0.874	0.916	1.000	4.7%	< 30	87.4%	91.6%	50 - 150	
Fludioxonil	0.000	0.832	0.817	0.800	1.9%	< 30	104.1%	102.1%	50 - 150	
Hexythiazox	0.015	0.583	0.592	1.000	1.5%	< 30	56.8%	57.6%	50 - 150	
Imazalil	0.007	0.367	0.367	0.400	0.1%	< 30	89.9%	90.0%	50 - 150	
Imidacloprid	0.000	0.769	0.819	0.800	6.4%	< 30	96.1%	102.4%	50 - 150	
Kresoxim-methyl	0.000	0.655	0.658	0.800	0.5%	< 30	81.9%	82.3%	50 - 150	
Malathion	0.007	0.331	0.326	0.400	1.5%	< 30	81.0%	79.8%	50 - 150	
Metalaxyl	0.000	0.367	0.379	0.400	3.1%	< 30	91.8%	94.7%	50 - 150	
Methiocarb	0.000	0.329	0.339	0.400	3.0%	< 30	82.3%	84.8%	50 - 150	
Methomyl	0.000	0.736	0.771	0.800	4.7%	< 30	92.0%	96.3%	50 - 150	
MGK-264	0.002	0.259	0.270	0.400	4.4%	< 30	64.3%	67.1%	50 - 150	
Myclobutanil	0.000	0.358	0.338	0.400	5.9%	< 30	89.6%	84.4%	50 - 150	
Naled	0.000	0.822	0.830	1.000	0.9%	< 30	82.2%	83.0%	50 - 150	
Oxamyl	0.000	1.705	1.802	2.000	5.5%	< 30	85.3%	90.1%	50 - 150	
Paclobutrazole	0.000	0.671	0.723	0.800	7.4%	< 30	83.9%	90.4%	50 - 150	
Parathion-Methyl	0.000	0.304	0.295	0.400	3.1%	< 30	76.0%	73.7%	30 - 150	
Permethrin	0.000	0.127	0.128	0.400	0.5%	< 30	31.7%	31.9%	50 - 150	Q
Phosmet	0.000	0.357	0.364	0.400	1.7%	< 30	89.3%	90.9%	50 - 150	
Piperonyl butoxide	0.000	1.669	1.650	2.000	1.1%	< 30	83.4%	82.5%	50 - 150	
Prallethrin	0.139	0.460	0.493	0.400	9.9%	< 30	80.0%	88.4%	50 - 150	
Propiconazole	0.006	0.652	0.694	0.800	6.4%	< 30	80.7%	86.1%	50 - 150	
Propoxur	0.003	0.350	0.343	0.400	2.1%	< 30	86.6%	84.8%	50 - 150	
Pyrethrin (Summe)	0.000	0.374	0.387	0.488	3.5%	< 30	76.6%	79.3%	50 - 150	
Pyridaben	0.004	0.209	0.222	0.400	6.0%	< 30	51.3%	54.5%	50 - 150	
Spinosad	0.000	0.286	0.304	0.388	5.9%	< 30	73.8%	78.3%	50 - 150	
Spiromesifen	0.008	0.325	0.334	0.400	3.0%	< 30	79.2%	81.7%	50 - 150	
Spirotetramat	0.000	0.429	0.435	0.400	1.4%	< 30	107.2%	108.7%	50 - 150	
Spiroxamine	0.000	0.744	0.771	0.800	3.5%	< 30	93.0%	96.3%	50 - 150	
Tebuconazole	0.000	0.656	0.663	0.800	1.0%	< 30	82.1%	82.9%	50 - 150	
Thiacloprid	0.000	0.376	0.387	0.400	2.8%	< 30	94.1%	96.7%	50 - 150	
Thiamethoxam	0.000	0.380	0.385	0.400	1.4%	< 30	94.9%	96.2%	50 - 150	
Trifloxystrobin	0.001	0.283	0.292	0.400	3.1%	< 30	70.5%	72.7%	50 - 150	

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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2307994

	Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**
Propane	ND	<	200		501	584	µg/g	85.8	60	-	120	
Isobutane	ND	<	200		642	767	µg/g	83.7	60	-	120	
Butane	ND	<	200		630	782	µg/g	80.6	60	-	120	
2,2-Dimethylpropane	ND	<	200		886	939	µg/g	94.4	60	-	120	
Methanol	ND	<	200		1340	1640	µg/g	81.7	60	-	120	
Ethylene Oxide	ND	<	30		43.8	57.1	µg/g	76.7	60	-	120	
2-Methylbutane	ND	<	200		1330	1600	µg/g	83.1	60	-	120	
Pentane	ND	<	200		1340	1620	µg/g	82.7	60	-	120	
Ethanol	ND	<	200		1380	1610	µg/g	85.7	70	-	130	
Ethyl Ether	ND	<	200		1380	1610	µg/g	85.7	60	-	120	
2,2-Dimethylbutane	ND	<	30		145	168	µg/g	86.3	60	-	120	
Acetone	ND	<	200		1380	1620	µg/g	85.2	60	-	120	
2-Propanol	ND	<	200		1370	1600	µg/g	85.6	60	-	120	
Ethyl Formate	ND	<	500		1370	1600	µg/g	85.6	70	-	130	
Acetonitrile	ND	<	100		401	484	µg/g	82.9	60	-	120	
Methyl Acetate	ND	<	500		1510	1610	µg/g	93.8	70	-	130	
2,3-Dimethylbutane	ND	<	30		131	162	µg/g	80.9	60	-	120	
Dichloromethane	ND	<	60		417	483	µg/g	86.3	60	-	120	
2-Methylpentane	ND	<	30		153	174	µg/g	87.9	60	-	120	
MTBE	ND	<	500		1550	1610	µg/g	96.3	70	-	130	
3-Methylpentane	ND	<	30		144	168	µg/g	85.7	60	-	120	
Hexane	ND	<	30		140	168	µg/g	83.3	60	-	120	
1-Propanol	ND	<	500		1460	1600	µg/g	91.3	70	-	130	
Methylethylketone	ND	<	500		1520	1620	µg/g	93.8	70	-	130	
Ethyl acetate	ND	<	200		1330	1600	µg/g	83.1	60	-	120	
2-Butanol	ND	<	200		1360	1600	µg/g	85.0	60	-	120	
Tetrahydrofuran	ND	<	100		443	514	µg/g	86.2	60	-	120	
Cyclohexane	ND	<	200		1400	1600	µg/g	87.5	60	-	120	
2-methyl-1-propanol	ND	<	500		1500	1610	µg/g	93.2	70	-	130	
Benzene	ND	<	1		4.05	5.12	µg/g	79.1	60	-	120	
Isopropyl Acetate	ND	<	200		1350	1620	µg/g	83.3	60	-	120	
Heptane	ND	<	200		1330	1610	µg/g	82.6	60	-	120	
1-Butanol	ND	<	500		1420	1600	µg/g	88.8	70	-	130	
Propyl Acetate	ND	<	500		1470	1600	µg/g	91.9	70	-	130	
1,4-Dioxane	ND	<	100		418	493	µg/g	84.8	60	-	120	
2-Ethoxyethanol	ND	<	30		138	163	µg/g	84.7	60	-	120	
Methylisobutylketone	ND	<	500		1640	1600	µg/g	102.5	70	-	130	
3-Methyl-1-butanol	ND	<	500		1650	1610	µg/g	102.5	70	-	130	
Ethylene Glycol	ND	<	200		419	483	µg/g	86.7	60	-	120	
Toluene	ND	<	100		402	493	µg/g	81.5	60	-	120	
Isobutyl Acetate	ND	<	500		1430	1600	µg/g	89.4	70	-	130	
1-Pentanol	ND	<	500		1330	1600	µg/g	83.1	70	-	130	
Butyl Acetate	ND	<	500		1420	1600	µg/g	88.8	70	-	130	
Ethylbenzene	ND	<	200		800	969	µg/g	82.6	60	-	120	
m,p-Xylene	ND	<	200		798	968	µg/g	82.4	60	-	120	
o-Xylene	ND	<	200		800	976	µg/g	82.0	60	-	120	
Cumene	ND	<	30		132	162	µg/g	81.5	60	-	120	
Anisole	ND	<	500		1350	1610	µg/g	83.9	70	-	130	
DMSO	ND	<	500		1270	1610	µg/g	78.9	70	-	130	
1,2-dimethoxyethane	ND	<	50		157	164	µg/g	95.7	70	-	130	
Triethylamine	ND	<	500		1520	1600	µg/g	95.0	70	-	130	
N,N-dimethylformamide	ND	<	150		437	484	µg/g	90.3	70	-	130	
N,N-dimethylacetamide	ND	<	150		371	489	µg/g	75.9	70	-	130	
Pyridine	ND	<	50		153	172	µg/g	89.0	70	-	130	
Sulfolane	ND	<	50		100	163	µg/g	61.3	70	-	130	Q6
1,2-Dichloroethane	ND	<	1		0.788	1	µg/g	78.8	70	-	130	
Chloroform	ND	<	1		0.782	1	µg/g	78.2	70	-	130	
Trichloroethylene	ND	<	1		0.752	1	µg/g	75.2	70	-	130	
1,1-Dichloroethane	ND	<	1		0.753	1	µg/g	75.3	70	-	130	

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QC - Sample Duplicate **Sample ID: 23-006209-0001**

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

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:	23-006209/D005.R000
Report Date:	06/07/2023
ORELAP#:	OR100028
Purchase Order:	
Received:	05/24/23 16:17

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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.