Lazarus Naturals

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU TN.FS.SLP50 **BATCH #** EK49(A)

PRODUCT NAME Cannabinoid Sleep Tincture **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)	**29.16**	**mg/serving**	30.70	mg/g	3.07	%
Total THC (d9-THC, THCA)	**1.19**	**mg/serving**	1.25	mg/g	0.13	%
Cannabigerol (CBG)	**11.40**	**mg/serving**	12.00	mg/g	1.20	%
Cannabinol (CBN)	**11.59**	**mg/serving**	12.20	mg/g	1.22	%
Cannabichromene (CBC)	**1.04**	**mg/serving**	1.10	mg/g	0.11	%
Tetrahydrocannabinolic Acid (THCA)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ	%
Delta-9-THC (d9-THC)	**1.19**	**mg/serving**	1.25	mg/g	0.13	%
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	<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: 23-000158/D005.R000
Report Date: 01/25/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/04/23 15:05

Customer: Etz Hayim Holdings
Product identity: FORM-TN.FS.SLP50-EK49(A)
Client/Metrc ID: .
Laboratory ID: 23-000158-0002

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status
CBC per 1g	1.10		mg/1g	
CBD per 1g	30.7		mg/1g	
CBDV per 1g	0.535		mg/1g	
CBE per 1g	0.471		mg/1g	
CBG per 1g	12.0		mg/1g	
CBL per 1g	0.0932		mg/1g	
CBN per 1g	12.2		mg/1g	
CBT per 1g	0.582		mg/1g	
Δ9-THC per 1g	1.25		mg/1g	

CBD-Total per Serving Size 30.7 mg/1g

THC-Total per Serving Size 1.25 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:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.

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Report Number: 23-000158/D005.R000
Report Date: 01/25/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/04/23 15:05

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

Product identity: FORM-TN.FS.SLP50-EK49(A)
Client/Metrc ID: .
Sample Date:
Laboratory ID: 23-000158-0002
Evidence of Cooling: No
Temp: 18.8 °C
Relinquished by: client
Serving Size #1: 1 g

Sample Results

Potency per 1g **Method:** J AOAC 2015 V98-6 (mod)[þ] **Units** mg/se **Batch:** 2300233 **Analyze:** 1/7/23 8:52:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	1.10		mg/1g	0.0326	
CBC-A per 1g	< LOQ		mg/1g	0.0326	
CBC-Total per 1g	1.10		mg/1g	0.0612	
CBD per 1g	30.7		mg/1g	0.326	
CBD-A per 1g	< LOQ		mg/1g	0.0326	
CBD-Total per 1g	30.7		mg/1g	0.354	
CBDV per 1g	0.535		mg/1g	0.0326	
CBDV-A per 1g	< LOQ		mg/1g	0.0326	
CBDV-Total per 1g	0.535		mg/1g	0.0608	
CBE per 1g	0.471		mg/1g	0.0326	
CBG per 1g	12.0		mg/1g	0.326	
CBG-A per 1g	< LOQ		mg/1g	0.0326	
CBG-Total per 1g	12.0		mg/1g	0.354	
CBL per 1g	0.0932		mg/1g	0.0326	
CBL-A per 1g	< LOQ		mg/1g	0.0326	
CBL-Total per 1g	0.0932		mg/1g	0.0612	
CBN per 1g	12.2		mg/1g	0.326	
CBT per 1g	0.582		mg/1g	0.0326	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0326	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0326	
Δ8-THC per 1g	< LOQ		mg/1g	0.0326	
Δ9-THC per 1g	1.25		mg/1g	0.0326	
exo-THC per 1g	< LOQ		mg/1g	0.0326	
THC-A per 1g	< LOQ		mg/1g	0.0326	
THC-Total per 1g	1.25		mg/1g	0.0612	
THCV per 1g	< LOQ		mg/1g	0.0326	
THCV-A per 1g	< LOQ		mg/1g	0.0326	
THCV-Total per 1g	< LOQ		mg/1g	0.0612	
Total Cannabinoids per 1g	58.9		mg/1g		

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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2300404	01/15/23	AOAC 991.14 (Petrifilm)þ		
Total Coliforms	< LOQ		cfu/g	10	2300404	01/15/23	AOAC 991.14 (Petrifilm)þ		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2300405	01/16/23	AOAC 2014.05 (RAPID)þ		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2300405	01/16/23	AOAC 2014.05 (RAPID)þ		

Solvents

Method: Residual Solvents by GC/MSþ **Units** µg/g **Batch** 2300722 **Analyze** 01/24/23 12:13 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** 2300525 **Analyze** 01/18/23 07:53 AM

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	0.0903	2300594	01/18/23	AOAC 2013.06 (mod.)[þ]	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0903	2300594	01/18/23	AOAC 2013.06 (mod.)[þ]	pass	
Lead	< LOQ	0.500	mg/kg	0.0903	2300594	01/18/23	AOAC 2013.06 (mod.)[þ]	pass	
Mercury	< LOQ	0.100	mg/kg	0.0452	2300594	01/18/23	AOAC 2013.06 (mod.)[þ]	pass	

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12423 NE Whitaker Way
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ORELAP#:	OR100028
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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
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
A Tentamus Company

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Received: 01/04/23 15:05

Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2300233**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0347	0.034	%	103	80.0 - 120	Acceptable	
CBDV	2	0.0390	0.037	%	106	80.0 - 120	Acceptable	
CBE	2	0.0362	0.035	%	102	80.0 - 120	Acceptable	
CBDA	1	0.0332	0.034	%	96.3	90.0 - 110	Acceptable	
CBGA	1	0.0335	0.034	%	97.1	80.0 - 120	Acceptable	
CBG	1	0.0337	0.035	%	97.4	80.0 - 120	Acceptable	
CBD	1	0.0334	0.035	%	96.3	90.0 - 110	Acceptable	
THCV	2	0.0371	0.035	%	105	80.0 - 120	Acceptable	
d8THCV	2	0.0360	0.036	%	101	80.0 - 120	Acceptable	
THCVA	2	0.0339	0.033	%	103	80.0 - 120	Acceptable	
CBN	1	0.0348	0.036	%	97.4	80.0 - 120	Acceptable	
exo-THC	2	0.0352	0.034	%	103	80.0 - 120	Acceptable	
d9THC	1	0.0363	0.037	%	97.6	90.0 - 110	Acceptable	
d8THC	1	0.0351	0.036	%	97.5	90.0 - 110	Acceptable	
CBL	2	0.0350	0.033	%	105	80.0 - 120	Acceptable	
d10THC	1	NA	0.033	%	NA	80.0 - 120	Acceptable	Q6
CBC	2	0.0372	0.036	%	102	80.0 - 120	Acceptable	
THCA	1	0.0328	0.034	%	96.8	90.0 - 110	Acceptable	
CBCA	2	0.0356	0.034	%	104	80.0 - 120	Acceptable	
CBLA	2	0.0360	0.035	%	103	80.0 - 120	Acceptable	
CBT	2	0.0376	0.036	%	104	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	
d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<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	
CBT	<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

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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2300233**

Sample Duplicate Sample ID: **22-011971-0002**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0084	0.0083	0.003	%	0.528	< 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	1.86	1.84	0.003	%	1.18	< 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	<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	
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:

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 &EN 15662			Units: mg/Kg					Batch ID 2300525	
Method Blank				Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Re	Limits		Notes
Abamectin	0.000	< 0.250		0.895	1.000	89.5	50.0	150	
Acephate	0.000	< 0.200		0.691	0.800	86.4	60.0	120	
Acequinocyl	0.000	< 1.000		3.509	4.000	87.7	40.0	160	
Acetamiprid	0.000	< 0.100		0.368	0.400	91.9	60.0	120	
Aldicarb	0.000	< 0.200		0.732	0.800	91.5	60.0	120	
Azoxystrobin	0.000	< 0.100		0.354	0.400	88.5	60.0	120	
Bifenazate	0.000	< 0.100		0.395	0.400	98.7	60.0	120	
Bifenthrin	0.000	< 0.100		0.351	0.400	87.7	50.0	150	
Boscalid	0.000	< 0.200		0.664	0.800	83.0	60.0	120	
Carbaryl	0.000	< 0.100		0.362	0.400	90.5	60.0	120	
Carbofuran	0.000	< 0.100		0.374	0.400	93.6	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.363	0.400	90.8	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.868	2.000	93.4	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.372	0.400	93.0	60.0	120	
Clofentezine	0.000	< 0.100		0.366	0.400	91.5	60.0	120	
Cyfluthrin	0.000	< 0.500		1.826	2.000	91.3	50.0	150	
Cypermethrin	0.000	< 0.500		1.821	2.000	91.0	50.0	150	
Daminozide	0.000	< 0.500		1.804	2.000	90.2	60.0	120	
Diazinon	0.000	< 0.100		0.387	0.400	96.8	60.0	120	
Dichlorvos	0.000	< 0.500		1.900	2.000	95.0	60.0	120	
Dimethoate	0.000	< 0.100		0.359	0.400	89.8	60.0	120	
Ethoprophos	0.000	< 0.100		0.369	0.400	92.2	60.0	120	
Etofenprox	0.000	< 0.200		0.712	0.800	89.0	50.0	150	
Etoxazole	0.000	< 0.100		0.366	0.400	91.6	60.0	120	
Fenoxycarb	0.000	< 0.100		0.363	0.400	90.8	60.0	120	
Fenpyroximate	0.000	< 0.200		0.742	0.800	92.7	60.0	120	
Fipronil	0.000	< 0.200		0.713	0.800	89.1	60.0	120	
Flonicamid	0.000	< 0.250		0.839	1.000	83.9	60.0	120	
Fludioxonil	0.000	< 0.200		0.777	0.800	97.2	50.0	150	
Hexythiazox	0.000	< 0.250		0.885	1.000	88.5	60.0	120	
Imazalil	0.000	< 0.100		0.377	0.400	94.3	60.0	120	
Imidacloprid	0.000	< 0.200		0.721	0.800	90.2	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.733	0.800	91.6	60.0	120	
Malathion	0.000	< 0.100		0.366	0.400	91.5	60.0	120	
Metalaxyl	0.000	< 0.100		0.373	0.400	93.3	60.0	120	
Methiocarb	0.000	< 0.100		0.372	0.400	92.9	60.0	120	
Methomyl	0.000	< 0.200		0.685	0.800	85.6	60.0	120	
MGK-264	0.000	< 0.100		0.362	0.400	90.4	50.0	150	
Myclobutanil	0.000	< 0.100		0.366	0.400	91.6	60.0	120	
Naled	0.000	< 0.250		0.929	1.000	92.9	50.0	150	
Oxamyl	0.000	< 0.500		1.752	2.000	87.6	60.0	120	
Paclobutrazole	0.000	< 0.200		0.728	0.800	91.0	60.0	120	
Parathion-Methyl	0.000	< 0.100		0.304	0.400	76.1	50.0	150	
Permethrin	0.000	< 0.100		0.364	0.400	91.0	50.0	150	
Phosmet	0.000	< 0.100		0.349	0.400	87.3	50.0	150	
Piperonyl butoxide	0.000	< 0.500		1.796	2.000	89.8	60.0	120	
Prallethrin	0.000	< 0.100		0.364	0.400	91.1	60.0	120	
Propiconazole	0.000	< 0.200		0.730	0.800	91.3	60.0	120	
Propoxur	0.000	< 0.100		0.372	0.400	93.0	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.466	0.488	95.5	60.0	120	
Pyridaben	0.000	< 0.100		0.371	0.400	92.6	50.0	150	
Spinosad	0.000	< 0.100		0.344	0.388	88.6	50.0	150	
Spiromesifen	0.000	< 0.100		0.363	0.400	90.8	60.0	120	
Spirotetramat	0.000	< 0.100		0.370	0.400	92.5	60.0	120	
Spiroxamine	0.000	< 0.200		0.691	0.800	86.4	60.0	120	
Tebuconazole	0.000	< 0.200		0.730	0.800	91.2	60.0	120	
Thiacloprid	0.000	< 0.100		0.363	0.400	90.7	60.0	120	
Thiamethoxam	0.000	< 0.100		0.381	0.400	95.3	60.0	120	
Trifloxystrobin	0.000	< 0.100		0.361	0.400	90.2	60.0	120	

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 &EN 15662 | Units: mg/Kg | Batch ID: 2300525

Matrix Spike/Matrix Spike Duplicate Recoveries | Sample ID: 23-0001580002

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.836	0.901	1.000	7.4%	< 30	83.6%	90.1%	50 - 150	
Acephate	0.000	0.728	0.678	0.800	7.1%	< 30	91.0%	84.7%	50 - 150	
Acequinocyl	0.000	3.197	3.409	4.000	6.4%	< 30	79.9%	85.2%	50 - 150	
Acetamiprid	0.000	0.373	0.367	0.400	1.6%	< 30	93.3%	91.8%	50 - 150	
Aldicarb	0.000	0.720	0.716	0.800	0.5%	< 30	90.0%	89.6%	50 - 150	
Azoxystrobin	0.000	0.347	0.347	0.400	0.1%	< 30	86.7%	86.8%	50 - 150	
Bifenazate	0.000	0.410	0.420	0.400	2.2%	< 30	102.6%	104.9%	50 - 150	
Bifenthrin	0.000	0.307	0.312	0.400	1.6%	< 30	76.7%	78.0%	50 - 150	
Boscalid	0.000	0.674	0.714	0.800	5.8%	< 30	84.2%	89.3%	50 - 150	
Carbaryl	0.000	0.352	0.349	0.400	0.9%	< 30	88.0%	87.2%	50 - 150	
Carbofuran	0.000	0.360	0.356	0.400	1.3%	< 30	90.1%	88.9%	50 - 150	
Chlorantraniliprole	0.000	0.381	0.374	0.400	1.8%	< 30	95.2%	93.4%	50 - 150	
Chlorfenapyr	0.000	1.384	1.484	2.000	6.9%	< 30	69.2%	74.2%	50 - 150	
Chlorpyrifos	0.000	0.389	0.386	0.400	0.7%	< 30	97.2%	96.5%	50 - 150	
Clofentezine	0.000	0.353	0.352	0.400	0.4%	< 30	88.3%	88.0%	50 - 150	
Cyfluthrin	0.000	1.058	1.128	2.000	6.4%	< 30	52.9%	56.4%	30 - 150	
Cypermethrin	0.000	1.113	1.056	2.000	5.2%	< 30	55.6%	52.8%	50 - 150	
Daminozide	0.000	1.780	1.797	2.000	1.0%	< 30	89.0%	89.8%	30 - 150	
Diazinon	0.000	0.335	0.335	0.400	0.2%	< 30	83.8%	83.6%	50 - 150	
Dichlorvos	0.000	1.884	1.814	2.000	3.8%	< 30	94.2%	90.7%	50 - 150	
Dimethoate	0.000	0.365	0.361	0.400	0.9%	< 30	91.2%	90.3%	50 - 150	
Ethoprophos	0.000	0.347	0.354	0.400	2.1%	< 30	86.7%	88.5%	50 - 150	
Etofenprox	0.000	0.592	0.622	0.800	4.8%	< 30	74.0%	77.7%	50 - 150	
Etoxazole	0.000	0.329	0.334	0.400	1.6%	< 30	82.2%	83.5%	50 - 150	
Fenoxycarb	0.000	0.353	0.358	0.400	1.4%	< 30	88.2%	89.4%	50 - 150	
Fenpyroximate	0.000	0.407	0.409	0.800	0.6%	< 30	50.9%	51.2%	50 - 150	
Fipronil	0.000	0.644	0.574	0.800	11.4%	< 30	80.5%	71.8%	50 - 150	
Flonicamid	0.000	0.929	0.917	1.000	1.3%	< 30	92.9%	91.7%	50 - 150	
Fludioxonil	0.000	0.865	0.878	0.800	1.5%	< 30	108.1%	109.7%	50 - 150	
Hexythiazox	0.000	0.887	0.866	1.000	2.5%	< 30	88.7%	86.6%	50 - 150	
Imazalil	0.000	0.376	0.371	0.400	1.3%	< 30	94.0%	92.8%	50 - 150	
Imidacloprid	0.000	0.720	0.713	0.800	1.0%	< 30	90.0%	89.1%	50 - 150	
Kresoxim-methyl	0.000	0.691	0.698	0.800	1.0%	< 30	86.4%	87.3%	50 - 150	
Malathion	0.036	0.321	0.314	0.400	2.7%	< 30	71.4%	69.5%	50 - 150	
Metalaxyl	0.000	0.361	0.368	0.400	2.0%	< 30	90.2%	92.0%	50 - 150	
Methiocarb	0.000	0.351	0.348	0.400	1.0%	< 30	87.9%	87.0%	50 - 150	
Methomyl	0.000	0.749	0.780	0.800	4.0%	< 30	93.7%	97.5%	50 - 150	
MGK-264	0.000	0.289	0.297	0.400	2.8%	< 30	72.1%	74.2%	50 - 150	
Myclobutanil	0.000	0.372	0.371	0.400	0.1%	< 30	93.0%	92.9%	50 - 150	
Naled	0.000	0.825	0.820	1.000	0.5%	< 30	82.5%	82.0%	50 - 150	
Oxamyl	0.000	1.851	1.715	2.000	7.7%	< 30	92.6%	85.7%	50 - 150	
Paclobutrazole	0.000	0.714	0.705	0.800	1.2%	< 30	89.2%	88.2%	50 - 150	
Parathion-Methyl	0.000	0.347	0.267	0.400	26.1%	< 30	86.8%	66.8%	30 - 150	
Permethrin	0.000	0.347	0.338	0.400	2.7%	< 30	86.7%	84.4%	50 - 150	
Phosmet	0.000	0.351	0.350	0.400	0.3%	< 30	87.7%	87.5%	50 - 150	
Piperonyl butoxide	0.000	1.595	1.669	2.000	4.5%	< 30	79.7%	83.4%	50 - 150	
Prallethrin	0.000	0.333	0.334	0.400	0.4%	< 30	83.2%	83.5%	50 - 150	
Propiconazole	0.000	0.778	0.780	0.800	0.2%	< 30	97.3%	97.5%	50 - 150	
Propoxur	0.000	0.367	0.360	0.400	1.9%	< 30	91.7%	90.0%	50 - 150	
Pyrethrin (Summe)	0.018	0.507	0.517	0.488	2.0%	< 30	100.4%	102.4%	50 - 150	
Pyridaben	0.000	0.340	0.336	0.400	1.3%	< 30	85.1%	84.0%	50 - 150	
Spinosad	0.000	0.314	0.314	0.388	0.1%	< 30	81.0%	81.0%	50 - 150	
Spiromesifen	0.000	0.378	0.374	0.400	1.2%	< 30	94.6%	93.5%	50 - 150	
Spirotetramat	0.000	0.428	0.438	0.400	2.3%	< 30	107.1%	109.6%	50 - 150	
Spiroxamine	0.000	0.691	0.705	0.800	2.0%	< 30	86.4%	88.1%	50 - 150	
Tebuconazole	0.000	0.700	0.701	0.800	0.1%	< 30	87.5%	87.6%	50 - 150	
Thiacloprid	0.000	0.363	0.353	0.400	2.8%	< 30	90.9%	88.3%	50 - 150	
Thiamethoxam	0.000	0.423	0.371	0.400	13.1%	< 30	105.7%	92.7%	50 - 150	
Trifloxystrobin	0.000	0.320	0.317	0.400	1.1%	< 30	80.1%	79.2%	50 - 150	

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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2300722

Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**
Propane	ND	<	200		480	572	µg/g	83.9	60	-	120	
Isobutane	ND	<	200		623	731	µg/g	85.2	60	-	120	
Butane	ND	<	200		592	731	µg/g	81.0	60	-	120	
2,2-Dimethylpropane	ND	<	200		812	936	µg/g	86.8	60	-	120	
Methanol	ND	<	200		1410	1620	µg/g	87.0	60	-	120	
Ethylene Oxide	ND	<	30		49	56.2	µg/g	87.2	60	-	120	
2-Methylbutane	ND	<	200		1330	1610	µg/g	82.6	60	-	120	
Pentane	ND	<	200		1330	1600	µg/g	83.1	60	-	120	
Ethanol	ND	<	200		1400	1610	µg/g	87.0	70	-	130	
Ethyl Ether	ND	<	200		1340	1630	µg/g	82.2	60	-	120	
2,2-Dimethylbutane	ND	<	30		138	171	µg/g	80.7	60	-	120	
Acetone	ND	<	200		1340	1630	µg/g	82.2	60	-	120	
2-Propanol	ND	<	200		1440	1620	µg/g	88.9	60	-	120	
Ethyl Formate	ND	<	500		1380	1670	µg/g	82.6	70	-	130	
Acetonitrile	ND	<	100		409	498	µg/g	82.1	60	-	120	
Methyl Acetate	ND	<	500		1460	1730	µg/g	84.4	70	-	130	
2,3-Dimethylbutane	ND	<	30		135	171	µg/g	78.9	60	-	120	
Dichloromethane	ND	<	60		406	483	µg/g	84.1	60	-	120	
2-Methylpentane	ND	<	30		146	168	µg/g	86.9	60	-	120	
MTBE	ND	<	500		1520	1650	µg/g	92.1	70	-	130	
3-Methylpentane	ND	<	30		125	167	µg/g	74.9	60	-	120	
Hexane	ND	<	30		178	182	µg/g	97.8	60	-	120	
1-Propanol	ND	<	500		1420	1620	µg/g	87.7	70	-	130	
Methylethylketone	ND	<	500		1330	1620	µg/g	82.1	70	-	130	
Ethyl acetate	ND	<	200		1360	1610	µg/g	84.5	60	-	120	
2-Butanol	ND	<	200		1430	1600	µg/g	89.4	60	-	120	
Tetrahydrofuran	ND	<	100		397	483	µg/g	82.2	60	-	120	
Cyclohexane	ND	<	200		1300	1610	µg/g	80.7	60	-	120	
2-methyl-1-propanol	ND	<	500		1360	1620	µg/g	84.0	70	-	130	
Benzene	ND	<	1		4.42	5.02	µg/g	88.0	60	-	120	
Isopropyl Acetate	ND	<	200		1450	1620	µg/g	89.5	60	-	120	
Heptane	ND	<	200		1280	1610	µg/g	79.5	60	-	120	
1-Butanol	ND	<	500		1450	1630	µg/g	89.0	70	-	130	
Propyl Acetate	ND	<	500		1310	1610	µg/g	81.4	70	-	130	
1,4-Dioxane	ND	<	100		390	491	µg/g	79.4	60	-	120	
2-Ethoxyethanol	ND	<	30		296	181	µg/g	163.5	60	-	120	Q1
Methylisobutylketone	ND	<	500		1260	1620	µg/g	77.8	70	-	130	
3-Methyl-1-butanol	ND	<	500		1380	1630	µg/g	84.7	70	-	130	
Ethylene Glycol	ND	<	200		652	484	µg/g	134.7	60	-	120	Q1
Toluene	ND	<	100		373	485	µg/g	76.9	60	-	120	
Isobutyl Acetate	ND	<	500		1320	1630	µg/g	81.0	70	-	130	
1-Pentanol	ND	<	500		1330	1620	µg/g	82.1	70	-	130	
Butyl Acetate	ND	<	500		1280	1620	µg/g	79.0	70	-	130	
Ethylbenzene	ND	<	200		712	969	µg/g	73.5	60	-	120	
m,p-Xylene	ND	<	200		720	994	µg/g	72.4	60	-	120	
o-Xylene	ND	<	200		694	967	µg/g	71.8	60	-	120	
Cumene	ND	<	30		126	171	µg/g	73.7	60	-	120	
Anisole	ND	<	500		1120	1630	µg/g	68.7	70	-	130	Q6
DMSO	ND	<	500		2220	1680	µg/g	132.1	70	-	130	Q1
1,2-dimethoxyethane	ND	<	50		147	169	µg/g	87.0	70	-	130	
Triethylamine	ND	<	500		1340	1630	µg/g	82.2	70	-	130	
N,N-dimethylformamide	ND	<	150		573	482	µg/g	118.9	70	-	130	
N,N-dimethylacetamide	ND	<	150		533	510	µg/g	104.5	70	-	130	
Pyridine	ND	<	50		194	203	µg/g	95.6	70	-	130	
Sulfolane	ND	<	50		198	172	µg/g	115.1	70	-	130	
1,2-Dichloroethane	ND	<	1		0.857	1	µg/g	85.7	70	-	130	
Chloroform	ND	<	1		0.892	1	µg/g	89.2	70	-	130	
Trichloroethylene	ND	<	1		0.93	1	µg/g	93.0	70	-	130	
1,1-Dichloroethane	ND	<	1		0.899	1	µg/g	89.9	70	-	130	

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QC - Sample Duplicate **Sample ID: 23-000158-0002**

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
Q1 - Quality control result biased high. Only non-detect samples reported.
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:	23-000158/D005.R000
Report Date:	01/25/2023
ORELAP#:	OR100028
Purchase Order:	
Received:	01/04/23 15:05

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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.