Lazarus Naturals

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU CHOC.FS.DS4 **BATCH #** DK05

PRODUCT NAME Full Spectrum Dark Chocolate Sea Salt **SERVING SIZE** 2 squares(~10 g)

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)	45.7	mg/serving	4.57	mg/g	0.457 %
Total THC (d9-THC, THCA)	<LOQ	mg/serving	<LOQ	mg/g	<LOQ %
Cannabigerol (CBG)	<LOQ	mg/serving	<LOQ	mg/g	<LOQ %
Cannabinol (CBN)	<LOQ	mg/serving	<LOQ	mg/g	<LOQ %
Cannabichromene (CBC)	<LOQ	mg/serving	<LOQ	mg/g	<LOQ %
Tetrahydrocannabinolic Acid (THCA)	<LOQ	mg/serving	<LOQ	mg/g	<LOQ %
Delta-9-THC (d9-THC)	<LOQ	mg/serving	<LOQ	mg/g	<LOQ %
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	2.20	µg/serving	0.220	µg/g	4.1 µg/day [1]
Lead	<LOQ	µg/serving	<LOQ	µg/g	3.5 µg/day [2]
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	
Heptane	<LOQ	
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.
2. US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA.US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA.

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013871/D002.R000
Report Date: 12/03/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/24/21 14:41

Customer: Etz Hayim Holdings
Product identity: FORM-DK05-CHOC.FS.DS4
Client/Metrc ID: .
Laboratory ID: 21-013871-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status
CBD per 1g	4 57		mg/1g	

CBD Total per 1g	4.57 mg/1g
THC-Total per 1g	<LOQ

(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
Cadmium	0.220	mg/kg		

Microbiology:

Less than LOQ for all analytes.

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Report Date: 12/03/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/24/21 14:41

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

Product identity: FORM-DK05-CHOC.FS.DS4
Client/Metrc ID: .
Sample Date:
Laboratory ID: 21-013871-0001
Evidence of Cooling: No
Temp: 20.6 °C
Relinquished by: Client
Serving Size #1: 1 g
Density: 0.8000 g/ml

Sample Results

Potency per 1g **Method** J AOAC 2015 V98-6 (mod) **Units** mg/se **Batch:** 2110747 **Analyze:** 11/30/21 8:08:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g†	< LOQ		mg/1g	0.0320	
CBC-A per 1g†	< LOQ		mg/1g	0.0320	
CBC-Total per 1g†	< LOQ		mg/1g	0.0600	
CBD per 1g	4.57		mg/1g	0.0320	
CBD-A per 1g	< LOQ		mg/1g	0.0320	
CBD-Total per 1g	4.57		mg/1g	0.0600	
CBDV per 1g†	< LOQ		mg/1g	0.0320	
CBDV-A per 1g†	< LOQ		mg/1g	0.0320	
CBDV-Total per 1g†	< LOQ		mg/1g	0.0597	
CBE per 1g†	< LOQ		mg/1g	0.0320	
CBG per 1g†	< LOQ		mg/1g	0.0320	
CBG-A per 1g†	< LOQ		mg/1g	0.0320	
CBG-Total per 1g†	< LOQ		mg/1g	0.0597	
CBL per 1g†	< LOQ		mg/1g	0.0320	
CBL-A per 1g†	< LOQ		mg/1g	0.0320	
CBL-Total per 1g†	< LOQ		mg/1g	0.0600	
CBN per 1g	< LOQ		mg/1g	0.0320	
CBT per 1g†	< LOQ		mg/1g	0.0320	
Δ8-THCV per 1g†	< LOQ		mg/1g	0.0320	
Δ8-THC per 1g†	< LOQ		mg/1g	0.0320	
Δ9-THC per 1g	< LOQ		mg/1g	0.0320	
exo-THC per 1g†	< LOQ		mg/1g	0.0320	
THC-A per 1g	< LOQ		mg/1g	0.0320	
THC-Total per 1g	< LOQ		mg/1g	0.0600	
THCV per 1g†	< LOQ		mg/1g	0.0320	
THCV-A per 1g†	< LOQ		mg/1g	0.0320	
THCV-Total per 1g†	< LOQ		mg/1g	0.0600	
Total Cannabinoids per 1g	4.57		mg/1g		

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ORELAP#: OR100028
Purchase Order:
Received: 11/24/21 14:41

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2110622	11/29/21	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2110622	11/29/21	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2110623	11/30/21	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2110623	11/30/21	AOAC 2014.05 (RAPID)		X

Solvents

Method Residual Solvents by GC/MS **Units** µg/g **Batch** 2110727 **Analyze** 12/01/21 08:48 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†	< 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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Purchase Order:
Received: 11/24/21 14:41

Pesticides

Method AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2110676 **Analyze** 11/29/21 05:28 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	Analyze	Method	Status	Notes
Arsenic	< LOQ		mg/kg	0.00949	2110789	12/02/21	AOAC 2013.06 (mod.)		X
Cadmium	0.220		mg/kg	0.00949	2110789	12/02/21	AOAC 2013.06 (mod.)		X
Lead	< LOQ		mg/kg	0.00949	2110789	12/02/21	AOAC 2013.06 (mod.)		X
Mercury	< LOQ		mg/kg	0.00475	2110789	12/02/21	AOAC 2013.06 (mod.)		X

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Report Date:	12/03/2021
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Received:	11/24/21 14:41

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.

† = Analyte not NELAP accredited.

Units of Measure

cfu/g = Colony forming units per gram
g = Gram
g/ml = Gram per milliliter
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

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager

Columbia LABORATORIES
A Tentamus Company

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Portland, OR 97230
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PIXIS Labs
A Tentamus Company

12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

ORELAP ID: OR100028

[redacted]
Processor's License:

Analysis Requested

Purchase Order Number:
Project Number:
Project Name:

☐ Report Instructions:
☐ Send to State - METRC
☑ Email Final Results:
☐ Fax Final Results
☐ Cash/Check/CC/Net 30
Other:

Field ID	Date/Time Collected		Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: *E.Coli* and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metrc ID
FORM-DK05-CHOC.FS.DS4	11/24	1350			X													Laz Nat Discount
FORM-DK05-CHOC.FS.DS4	11/24	1350								X	X							
FORM-DK05-CHOC.FS.DS4	11/24	1350	X			X						X						run in parallel

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time
☑Standard (5 day)	[redacted]					
☐Rush (3-4 day) (1.5x Standard)						
☐Priority Rush (2 day) (2x Standard)						

Lab Use Only:
Client Alias:
Order Number:
Proper Container
Sample Condition
Temperature: 20.6°C
Shipped Via: client
Evidence of cooling: ☐Yes ☒No

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Revision: 1.02 Control#: CF023
Effective 01/31/2019 Revised 01/31/2019

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Page 1 of 2

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Report Number: 21-013871/D002.R000
Report Date: 12/03/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/24/21 14:41

Revision: 2 Document ID: 3120
Legacy ID: CFL-C21Effective:

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | Units: mg/Kg | Batch ID: 2110676

Matrix Spike/Matrix Spike Duplicate Recoveries | Sample ID: 21-013572-0001

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.000	0.645	0.668	1.000	3.5%	< 30	64.5%	66.8%	50 - 150	
Acequinocyl	0.000	4.093	4.608	4.000	11.8%	< 30	102.3%	115.2%	50 - 150	
Acetamiprid	0.000	0.496	0.498	0.400	0.4%	< 30	124.0%	124.5%	50 - 150	
Aldicarb	0.000	3.136	1.545	0.800	68.0%	< 30	392.0%	193.1%	50 - 150	R, Q1
Abamectin	0.000	0.867	0.913	1.000	5.2%	< 30	86.7%	91.3%	50 - 150	
Azoxystrobin	0.000	0.515	0.480	0.400	7.0%	< 30	128.8%	120.0%	50 - 150	
Bifenazate	0.000	0.419	0.457	0.400	8.5%	< 30	104.9%	114.1%	50 - 150	
Bifenthrin	0.000	0.536	0.574	0.400	6.8%	< 30	134.0%	143.5%	50 - 150	
Boscalid	0.000	0.870	0.974	0.800	11.3%	< 30	108.7%	121.8%	50 - 150	
Carbaryl	0.000	0.482	0.517	0.400	7.1%	< 30	120.4%	129.3%	50 - 150	
Carbofuran	0.000	0.529	0.604	0.400	13.3%	< 30	132.3%	151.1%	50 - 150	Q1
Chlorantraniliprol	0.000	0.383	0.369	0.400	3.9%	< 30	95.8%	92.1%	50 - 150	
Chlorfenapyr	0.000	2.479	2.573	2.000	3.7%	< 30	124.0%	128.7%	50 - 150	
Chlorpyrifos	0.000	0.853	0.904	0.400	5.9%	< 30	213.2%	226.1%	50 - 150	Q1
Clofentezine	0.000	0.301	0.300	0.400	0.3%	< 30	75.1%	74.9%	50 - 150	
Cyfluthrin	0.000	2.073	2.046	2.000	1.3%	< 30	103.7%	102.3%	30 - 150	
Cypermethrin	0.000	2.056	2.081	2.000	1.2%	< 30	102.8%	104.1%	50 - 150	
Daminozide	0.000	0.537	0.536	2.000	0.2%	< 30	26.8%	26.8%	30 - 150	Q
Diazinon	0.000	0.414	0.429	0.400	3.4%	< 30	103.6%	107.2%	50 - 150	
Dichlorvos	0.000	2.579	2.420	2.000	6.4%	< 30	129.0%	121.0%	50 - 150	
Dimethoat	0.000	0.492	0.478	0.400	2.9%	< 30	122.9%	119.5%	50 - 150	
Ethoprophos	0.000	0.420	0.465	0.400	10.3%	< 30	104.8%	116.1%	50 - 150	
Etofenprox	0.000	1.087	1.269	0.800	15.4%	< 30	135.9%	158.6%	50 - 150	Q1
Etoxazol	0.000	0.363	0.437	0.400	18.5%	< 30	90.7%	109.2%	50 - 150	
Fenoxycarb	0.000	0.412	0.409	0.400	0.8%	< 30	103.1%	102.3%	50 - 150	
Fenpyroximat	0.000	0.886	0.897	0.800	1.2%	< 30	110.8%	112.1%	50 - 150	
Fipronil	0.000	1.207	1.067	0.800	12.4%	< 30	150.9%	133.3%	50 - 150	Q1
Flonicamid	0.000	0.891	0.885	1.000	0.7%	< 30	89.1%	88.5%	50 - 150	
Fludioxonil	0.000	0.823	0.917	0.800	10.9%	< 30	102.8%	114.7%	50 - 150	
Hexythiazox	0.000	1.074	1.113	1.000	3.6%	< 30	107.4%	111.3%	50 - 150	
Imazalil	0.000	0.440	0.443	0.400	0.6%	< 30	110.0%	110.8%	50 - 150	
Imidacloprid	0.000	0.769	0.747	0.800	2.9%	< 30	96.1%	93.3%	50 - 150	
Kresoxim-Methyl	0.000	0.850	0.884	0.800	4.0%	< 30	106.2%	110.5%	50 - 150	
Malathion	0.000	0.464	0.447	0.400	3.7%	< 30	115.9%	111.8%	50 - 150	
Metalaxyl	0.000	0.483	0.454	0.400	6.2%	< 30	120.8%	113.6%	50 - 150	
Methiocarb	0.000	0.495	0.409	0.400	19.2%	< 30	123.8%	102.1%	50 - 150	
Methomyl	0.000	0.859	0.793	0.800	8.0%	< 30	107.4%	99.1%	50 - 150	
MGK 264	0.000	0.377	0.406	0.400	7.5%	< 30	94.2%	101.6%	50 - 150	
Myclobutanil	0.000	0.481	0.440	0.400	8.9%	< 30	120.2%	109.9%	50 - 150	
Naled	0.000	1.227	1.115	1.000	9.6%	< 30	122.7%	111.5%	50 - 150	
Oxamyl	0.000	2.087	2.056	2.000	1.5%	< 30	104.4%	102.8%	50 - 150	
Paclobutrazol	0.000	0.857	0.872	0.800	1.8%	< 30	107.1%	109.0%	50 - 150	
Parathion Methyl	0.000	1.065	1.042	0.800	2.2%	< 30	133.2%	130.3%	30 - 150	
Permethrin	0.000	0.406	0.396	0.400	2.5%	< 30	101.4%	99.0%	50 - 150	
Phosmet	0.000	0.478	0.478	0.400	0.0%	< 30	119.5%	119.5%	50 - 150	
Piperonyl butoxide	0.000	2.672	2.743	2.000	2.6%	< 30	133.6%	137.2%	50 - 150	
Prallethrin	0.000	0.306	0.327	0.400	6.4%	< 30	76.6%	81.6%	50 - 150	
Propiconazole	0.000	0.818	0.901	0.800	9.6%	< 30	102.2%	112.6%	50 - 150	
Propoxur	0.000	0.491	0.541	0.400	9.6%	< 30	122.8%	135.3%	50 - 150	
Pyrethrins	0.000	0.028	0.031	0.413	8.8%	< 30	6.8%	7.4%	50 - 150	Q
Pyridaben	0.000	0.379	0.405	0.400	6.6%	< 30	94.8%	101.3%	50 - 150	
Spinosad	0.000	0.514	0.479	0.388	6.9%	< 30	132.4%	123.5%	50 - 150	
Spiromesifen	0.000	0.374	0.420	0.400	11.6%	< 30	93.6%	105.1%	50 - 150	
Spirotetramat	0.000	0.366	0.360	0.400	1.5%	< 30	91.5%	90.1%	50 - 150	
Spiroxamine	0.000	0.819	0.877	0.800	6.8%	< 30	102.4%	109.6%	50 - 150	
Tebuconazol	0.000	0.902	0.963	0.800	6.5%	< 30	112.8%	120.3%	50 - 150	
Thiacloprid	0.000	0.482	0.494	0.400	2.5%	< 30	120.5%	123.5%	50 - 150	
Thiamethoxam	0.000	0.328	0.311	0.400	5.2%	< 30	81.9%	77.7%	50 - 150	
Trifloxystrobin	0.000	0.458	0.494	0.400	7.5%	< 30	114.6%	123.5%	50 - 150	

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013871/D002.R000
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ORELAP#: OR100028
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Revision: 2 Document ID: 3120
Legacy ID: CFL-C21Effective:

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | Units: mg/Kg | Batch ID: 2110676

Method Blank				Laboratory Control Sample				
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	0.010	< 0.250		0.913	1.000	91.3	71.9 - 134	
Acequinocyl	0.000	< 1.000		3.308	4.000	82.7	73.8 - 137	
Acetamiprid	0.000	< 0.100		0.406	0.400	101.5	75.0 - 139	
Aldicarb	0.000	< 0.200		1.579	0.800	***197.4***	87.3 - 162	Q1
Abamectin	0.000	< 0.250		0.968	1.000	96.8	77.1 - 143	
Azoxystrobin	0.000	< 0.100		0.380	0.400	94.9	72.6 - 135	
Bifenazate	0.000	< 0.100		0.372	0.400	93.0	75.1 - 140	
Bifenthrin	0.000	< 0.100		0.365	0.400	91.4	72.0 - 134	
Boscalid	0.000	< 0.200		0.739	0.800	92.4	75.3 - 140	
Carbaryl	0.000	< 0.100		0.421	0.400	105.4	74.7 - 139	
Carbofuran	0.000	< 0.100		0.408	0.400	102.0	74.2 - 138	
Chlorantraniliprol	0.000	< 0.100		0.379	0.400	94.8	70.3 - 130	
Chlorfenapyr	0.000	< 0.500		1.894	2.000	94.7	74.0 - 137	
Chlorpyrifos	0.000	< 0.100		0.457	0.400	114.2	71.5 - 133	
Clofentezine	0.000	< 0.100		0.167	0.400	***41.8***	42.9 - 79.6	Q6
Cyfluthrin	0.000	< 0.500		1.959	2.000	98.0	79.2 - 147	
Cypermethrin	0.000	< 0.500		1.917	2.000	95.8	77.4 - 144	
Daminozide	0.016	< 0.500		0.716	2.000	35.8	27.3 - 50.7	
Diazinon	0.000	< 0.100		0.388	0.400	96.9	76.0 - 141	
Dichlorvos	0.000	< 0.500		2.354	2.000	117.7	81.5 - 151	
Dimethoat	0.000	< 0.100		0.418	0.400	104.4	73.8 - 137	
Ethoprophos	0.000	< 0.100		0.380	0.400	94.9	74.7 - 139	
Etofenprox	0.000	< 0.200		0.745	0.800	93.1	73.3 - 136	
Etoxazol	0.000	< 0.100		0.318	0.400	***79.5***	88.0 - 163	Q6
Fenoxycarb	0.000	< 0.100		0.371	0.400	92.8	73.3 - 136	
Fenpyroximat	0.000	< 0.200		0.831	0.800	103.8	72.8 - 135	
Fipronil	0.000	< 0.200		0.813	0.800	101.6	73.9 - 137	
Flonicamid	0.000	< 0.250		1.116	1.000	111.6	75.9 - 141	
Fludioxonil	0.000	< 0.200		0.841	0.800	105.2	76.4 - 142	
Hexythiazox	0.000	< 0.250		0.989	1.000	98.9	70.8 - 132	
Imazalil	0.009	< 0.100		0.395	0.400	98.7	72.2 - 134	
Imidacloprid	0.000	< 0.200		0.812	0.800	101.5	74.6 - 139	
Kresoxim-Methyl	0.000	< 0.200		0.764	0.800	95.5	74.3 - 138	
Malathion	0.000	< 0.100		0.367	0.400	91.9	74.1 - 138	
Metalaxyl	0.009	< 0.100		0.411	0.400	102.8	74.0 - 137	
Methiocarb	0.000	< 0.100		0.361	0.400	90.3	74.9 - 139	
Methomyl	0.000	< 0.200		0.859	0.800	107.3	72.3 - 134	
MGK 264	0.000	< 0.100		0.412	0.400	102.9	76.0 - 141	
Myclobutanil	0.000	< 0.100		0.383	0.400	95.7	73.7 - 137	
Naled	0.000	< 0.250		0.494	1.000	49.4	38.6 - 71.7	
Oxamyl	0.000	< 0.500		2.151	2.000	107.5	73.3 - 136	
Paclobutrazol	0.000	< 0.200		0.756	0.800	94.6	74.4 - 138	
Parathion Methyl	0.000	< 0.200		0.828	0.800	103.6	72.5 - 135	
Permethrin	0.000	< 0.100		0.383	0.400	95.7	74.9 - 139	
Phosmet	0.000	< 0.100		0.361	0.400	90.2	74.0 - 137	
Piperonyl butoxide	0.000	< 0.500		2.143	2.000	107.2	75.1 - 140	
Prallethrin	0.001	< 0.100		0.388	0.400	97.1	72.5 - 135	
Propiconazole	0.085	< 0.200		0.712	0.800	89.0	75.5 - 140	
Propoxur	0.012	< 0.100		0.395	0.400	98.7	73.7 - 137	
Pyrethrins	0.009	< 0.100		0.032	0.413	***7.8***	72.2 - 134	Q6
Pyridaben	0.000	< 0.100		0.322	0.400	80.4	76.4 - 142	
Spinosad	0.000	< 0.100		0.422	0.388	108.7	75.8 - 141	
Spiromesifen	0.000	< 0.100		0.358	0.400	89.4	75.4 - 140	
Spirotetramat	0.000	< 0.100		0.375	0.400	93.8	72.8 - 135	
Spiroxamine	0.000	< 0.200		0.765	0.800	95.6	72.7 - 135	
Tebuconazol	0.000	< 0.200		0.742	0.800	92.8	74.1 - 138	
Thiacloprid	0.000	< 0.100		0.381	0.400	95.3	74.4 - 138	
Thiamethoxam	0.000	< 0.100		0.414	0.400	103.5	74.0 - 137	
Trifloxystrobin	0.000	< 0.100		0.434	0.400	108.4	73.9 - 137	

Columbia LABORATORIES
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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2 0727

Method Blank					Laboratory Control Sample						
Analyte	Result		LOQ	Notes	Result	Spike	Units	% Rec	Limits		Notes
Propane	ND		200		0	9 8	µg/g		0	0	
Isobutane	ND		200		350	260	µg/g	0	0	0	
Butane	ND		200		350	260	µg/g	0	0	0	
2 2 Dimethylpropane	ND		200		9 0	600	µg/g	23	0	0	
Methanol	ND		200		660	6 0	µg/g	03	0	0	
Ethy ene Ox de	ND		30		3	95	µg/g	8	0	0	
2 Methylbutane	ND		200		650	6 0	µg/g	02 5	0	0	
Pentane	ND		200		600	6 0	µg/g	99	0	0	
Ethanol	ND		200		560	6 0	µg/g	96 9	0	0	
Ethyl Ether	ND		200		0	6 0	µg/g	9 3	0	0	
2 2 Dimethylbutane	ND		30		53	6	µg/g	93 3	0	0	
Acetone	ND		200		530	6 0	µg/g	95 0	0	0	
2 Propanol	ND		200		580	6 0	µg/g	98	0	0	
Ethyl Formate	ND		500		5 0	6 0	µg/g	93 8	0	0	
Acetonitri e	ND		00		66	8	µg/g	96 3	0	0	
Methyl Acetate	ND		500		5 0	6 0	µg/g	9 5	0	0	
2 3 Dimethylbutane	ND		30		59	6	µg/g	95 2	0	0	
Dichloromethane	ND		60		39	9	µg/g	89	0	0	
2 Methylpentane	ND		30		53	65	µg/g	92	0	0	
M BE	ND		500		5 0	600	µg/g	98	0	0	
3 Methylpentane	ND		30		5	2	µg/g	9 3	0	0	
Hexane	ND		30		5	6	µg/g	90	0	0	
Propanol	ND		500		5 0	6 0	µg/g	95	0	0	
Methy ethylketone	ND		500		530	620	µg/g	9	0	0	
Ethyl acetate	ND		200		50	6 0	µg/g	90	0	0	
2 Butanol	ND		200		30	6 0	µg/g	88 8	0	0	
etrahydrofuran	ND		00		26	83	µg/g	88 2	0	0	
Cyclohexane	ND		200		00	6 0	µg/g	8 0	0	0	
2 methyl propanol	ND		500		5 0	620	µg/g	95	0	0	
Benzene	ND				29	5 36	µg/g	80 0	0	0	
Isopropyl Acetate	ND		200		0	620	µg/g	90	0	0	
Heptane	ND		200		30	6 0	µg/g	88 8	0	0	
Butanol	ND		500		5 0	6 0	µg/g	93 8	0	0	
Propyl Acetate	ND		500		3 0	620	µg/g	8 6	0	0	
Dioxane	ND		00		00	89	µg/g	8 8	0	0	
2 Ethoxyethanol	ND		30		8	6	µg/g	88 6	0	0	
Methy isobutylketone	ND		500		60	6 0	µg/g	90	0	0	
3 Methyl butanol	ND		500		0	6 0	µg/g	89	0	0	
Ethy ene Glycol	ND		200			50	µg/g	82	0	0	
o uene	ND		200		38	8	µg/g	9 3	0	0	
Isobutyl Acetate	ND		500		500	6 0	µg/g	93 2	0	0	
Pentanol	ND		500		350	6 0	µg/g	83 9	0	0	
Butyl Acetate	ND		500		500	620	µg/g	92 6	0	0	
Ethy benzene	ND		200		33	68	µg/g	5	0	0	
m p Xylene	ND		200		5	9	µg/g	2	0	0	
o Xylene	ND		200			982	µg/g	5 8	0	0	
Cumene	ND		30		2	69	µg/g	3	0	0	
Anisole	ND		500		350	630	µg/g	82 8	0	0	
DMSO	ND		500		320	630	µg/g	8 0	0	0	
2 d methoxyethane	ND		50		68	62	µg/g	03	0	0	
riethylamine	ND		500		590	6 0	µg/g	95 2	0	0	
N N dimethylformamide	ND		50		53	502	µg/g	90 2	0	0	
N N dimethylacetam de	ND		50		05	85	µg/g	83 5	0	0	
Pyridine	ND		50		50	66	µg/g	90	0	0	
2 Dichloroethane	ND				0 926		µg/g	92 6	0	0	
Chloroform	ND				0 88		µg/g	88	0	0	
richloroethylene	ND				0 9		µg/g	9	0	0	
Ethy ene Ox de	ND				0 93		µg/g	93	0	0	
Dichloromethane	ND				0 863		µg/g	86 3	0	0	
Benzene	ND				0 83		µg/g	83 0	0	0	

Columbia LABORATORIES
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QC Sample Duplicate **Sample ID: 21 013830 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	
Ethy ene Ox de	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	
Acetonitri e	ND	ND	00	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	
M BE	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	
Propanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Methy ethylketone	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	
etrahydrofuran	ND	ND	00	µg/g	0 0	20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0 0	20	Acceptable	
2 methyl propanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Benzene	ND	ND		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	
Butanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0 0	20	Acceptable	
Dioxane	ND	ND	00	µg/g	0 0	20	Acceptable	
2 Ethoxyethanol	ND	ND	30	µg/g	0 0	20	Acceptable	
Methy isobutylketone	ND	ND	500	µg/g	0 0	20	Acceptable	
3 Methyl butanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Ethy ene Glycol	ND	ND	200	µg/g	0 0	20	Acceptable	
o uene	ND	ND	200	µg/g	0 0	20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0 0	20	Acceptable	
Pentanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0 0	20	Acceptable	
Ethy benzene	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	
2 d methoxyethane	ND	ND	50	µg/g	0 0	20	Acceptable	
riethylamine	ND	ND	500	µg/g	0 0	20	Acceptable	
N N dimethylformamide	ND	ND	50	µg/g	0 0	20	Acceptable	
N N dimethylacetam de	ND	ND	50	µg/g	0 0	20	Acceptable	
Pyridine	ND	ND	50	µg/g	0 0	20	Acceptable	
2 Dichloroethane	ND	ND		µg/g	0 0	20	Acceptable	
Chloroform	ND	ND		µg/g	0 0	20	Acceptable	
richloroethylene	ND	ND		µg/g	0 0	20	Acceptable	
Ethy ene Ox de	ND	ND		µg/g	0 0	20	Acceptable	
Dichloromethane	ND	ND		µg/g	0 0	20	Acceptable	
Benzene	ND	ND		µg/g	0 0	2	Acceptable	

Abbreviations

ND None Detected at or above MRL
RPD Relative Percent D fference
LOQ Limit of Quantitation

Units of Measure:

µg/g M crogram per gram or ppm

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A Tentamus Company

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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2110747**

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.00978	0.01	%	97.8	85.0 - 115	Acceptable	
CBDV	0.0104	0.01	%	104	85.0 - 115	Acceptable	
CBE	0.0106	0.01	%	106	85.0 - 115	Acceptable	
CBDA	0.0107	0.01	%	107	85.0 - 115	Acceptable	
CBGA	0.00989	0.01	%	98.9	85.0 - 115	Acceptable	
CBG	0.0103	0.01	%	103	85.0 - 115	Acceptable	
CBD	0.0110	0.01	%	110	85.0 - 115	Acceptable	
THCV	0.0103	0.01	%	103	85.0 - 115	Acceptable	
d8THCV	0.00992	0.01	%	99.2	85.0 - 115	Acceptable	
THCVA	0.00935	0.01	%	93.5	85.0 - 115	Acceptable	
CBN	0.0109	0.01	%	109	85.0 - 115	Acceptable	
exo-THC	0.00964	0.01	%	96.4	85.0 - 115	Acceptable	
d9THC	0.0106	0.01	%	106	85.0 - 115	Acceptable	
d8THC	0.00988	0.01	%	98.8	85.0 - 115	Acceptable	
CBL	0.00928	0.01	%	92.8	85.0 - 115	Acceptable	
CBC	0.0103	0.01	%	103	85.0 - 115	Acceptable	
THCA	0.0106	0.01	%	106	85.0 - 115	Acceptable	
CBCA	0.00937	0.01	%	93.7	85.0 - 115	Acceptable	
CBLA	0.00973	0.01	%	97.3	85.0 - 115	Acceptable	
CBT	0.00921	0.01	%	92.1	85.0 - 115	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	
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

Columbia LABORATORIES
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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2110747**

Sample Duplicate Sample D **21-013826-0001**

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	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.595	0.592	0.003	%	0.580	< 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	0.135	0.135	0.003	%	0.566	< 20	Acceptable	
d8THC	0.0300	0.0307	0.003	%	2.00	< 20	Acceptable	
CBL	<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
NA - Calculation Not Applicable given non-numerical results

Units of Measure:

% - Percent

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013871/D002.R000
Report Date: 12/03/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/24/21 14:41

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.