Lazarus Naturals

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU PET.VIT10 **BATCH #** FC44

PRODUCT NAME Calming Support CBD Dog Chews **SERVING SIZE** 1 treat (~5.6g)

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)	**10.48**	**mg/serving**	1.85	mg/g	0.19	%
Total THC (d9-THC, THCA)	**0.35**	**mg/serving**	0.06	mg/g	0.01	%
Cannabigerol (CBG)	**0.19**	**mg/serving**	0.03	mg/g	0.00	%
Cannabinol (CBN)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ	%
Cannabichromene (CBC)	**0.30**	**mg/serving**	0.05	mg/g	0.01	%
Tetrahydrocannabinolic Acid (THCA)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ	%
Delta-9-THC (d9-THC)	**0.35**	**mg/serving**	0.06	mg/g	0.01	%
Delta-8-THC (d8-THC)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ	%

HEAVY METALS	PER SERVING		PER GRAM		REGULATORY ACTION LEVEL	
Arsenic	**0.24**	**µg/serving**	0.04	µg/g	10	µg/day [1]
Cadmium	**<LOQ**	**µg/serving**	<LOQ	µg/g	4.1	µg/day [1]
Lead	**0.11**	**µg/serving**	0.02	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: 23-003662/D001.R000
Report Date: 04/11/2023
ORELAP#: OR100028
Purchase Order:
Received: 03/29/23 13:37

Customer: Etz Hayim Holdings
Product identity: FORM-PET.VIT10-FC44
Client/Metrc ID: .
Laboratory ID: 23-003662-0005

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status
CBC per 1g	0.0532		mg/1g	
CBD per 1g	1.85		mg/1g	
CBDV per 1g	0.0337		mg/1g	
CBG per 1g	0.0332		mg/1g	
Δ9-THC per 1g	0.0611		mg/1g	

CBD-Total per Serving Size 1.85 mg/1g

THC-Total per Serving Size 0.0611 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	Analyte	Result	Units	Limit	Status
Arsenic¥	0.0424	mg/kg	0.200	pass	Lead¥	0.0202	mg/kg	0.500	pass

Microbiology:

Less than LOQ for all analytes.

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ORELAP#: OR100028
Purchase Order:
Received: 03/29/23 13:37

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

Product identity: FORM-PET.VIT10-FC44
Client/Metrc ID: .
Sample Date:
Laboratory ID: 23-003662-0005
Evidence of Cooling: No
Temp: 16.9
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:** 2305819 **Analyze:** 3/31/23 9:15:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	0.0532		mg/1g	0.0313	
CBC-A per 1g	< LOQ		mg/1g	0.0313	
CBC-Total per 1g	< LOQ		mg/1g	0.0588	
CBD per 1g	1.85		mg/1g	0.0313	
CBD-A per 1g	< LOQ		mg/1g	0.0313	
CBD-Total per 1g	1.85		mg/1g	0.0588	
CBDV per 1g	0.0337		mg/1g	0.0313	
CBDV-A per 1g	< LOQ		mg/1g	0.0313	
CBDV-Total per 1g	< LOQ		mg/1g	0.0585	
CBE per 1g	< LOQ		mg/1g	0.0313	
CBG per 1g	0.0332		mg/1g	0.0313	
CBG-A per 1g	< LOQ		mg/1g	0.0313	
CBG-Total per 1g	< LOQ		mg/1g	0.0585	
CBL per 1g	< LOQ		mg/1g	0.0313	
CBL-A per 1g	< LOQ		mg/1g	0.0313	
CBL-Total per 1g	< LOQ		mg/1g	0.0588	
CBN per 1g	< LOQ		mg/1g	0.0313	
CBT per 1g	< LOQ		mg/1g	0.0313	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0313	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0313	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0313	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0627	
Δ8-THC per 1g	< LOQ		mg/1g	0.0313	
Δ9-THC per 1g	0.0611		mg/1g	0.0313	
exo-THC per 1g	< LOQ		mg/1g	0.0313	
THC-A per 1g	< LOQ		mg/1g	0.0313	
THC-Total per 1g	0.0611		mg/1g	0.0588	
THCV per 1g	< LOQ		mg/1g	0.0313	
THCV-A per 1g	< LOQ		mg/1g	0.0313	
THCV-Total per 1g	< LOQ		mg/1g	0.0589	

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Potency per 1g

Method: J AOAC 2015 V98-6 (mod)þ **Units** mg/se **Batch:** 2305819 **Analyze:** 3/31/23 9:15:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 1g	2.03		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2306050	04/01/23	AOAC 991.14 (Petrifilm)þ		
Total Coliforms	< LOQ		cfu/g	10	2306050	04/01/23	AOAC 991.14 (Petrifilm)þ		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2306056	04/02/23	AOAC 2014.05 (RAPID)þ		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2306056	04/02/23	AOAC 2014.05 (RAPID)þ		

Solvents

Method: Residual Solvents by GC/MSþ **Units** µg/g **Batch** 2305444 **Analyze** 04/03/23 11:06 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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Pesticides

Method: AOAC 2007.01 & EN 15662 (mod)þ **Units** mg/kg **Batch** 2305773 **Analyze** 04/06/23 12:01 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		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¥	0.0424	0.200	mg/kg	0.0194	2305993	04/07/23	AOAC 2013.06 (mod.)þ	pass	
Cadmium¥	< LOQ	0.200	mg/kg	0.0194	2305993	04/07/23	AOAC 2013.06 (mod.)þ	pass	
Lead¥	0.0202	0.500	mg/kg	0.0194	2305993	04/07/23	AOAC 2013.06 (mod.)þ	pass	
Mercury¥	< LOQ	0.100	mg/kg	0.00968	2305993	04/07/23	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.

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
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Received: 03/29/23 13:37

Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents — Batch ID: 2305444

Method Blank					Laboratory Control Sample							
Analyte	Result		LOQ	Notes	Result	Spike	Units	%Rec	Limits			Notes
Propane	ND	<	200		507	584	µg/g	86.8	60	-	120	
Isobutane	ND	<	200		648	767	µg/g	84.5	60	-	120	
Butane	ND	<	200		646	782	µg/g	82.6	60	-	120	
2,2-Dimethylpropane	ND	<	200		855	939	µg/g	91.1	60	-	120	
Methanol	ND	<	200		1570	1610	µg/g	97.5	60	-	120	
Ethylene Oxide	ND	<	30		48.3	57.1	µg/g	84.6	60	-	120	
2-Methylbutane	ND	<	200		1520	1600	µg/g	95.0	60	-	120	
Pentane	ND	<	200		1530	1610	µg/g	95.0	60	-	120	
Ethanol	ND	<	200		1490	1600	µg/g	93.1	70	-	130	
Ethyl Ether	ND	<	200		1530	1610	µg/g	95.0	60	-	120	
2,2-Dimethylbutane	ND	<	30		162	173	µg/g	93.6	60	-	120	
Acetone	ND	<	200		1520	1620	µg/g	93.8	60	-	120	
2-Propanol	ND	<	200		1440	1600	µg/g	90.0	60	-	120	
Ethyl Formate	ND	<	500		1800	1610	µg/g	111.8	70	-	130	
Acetonitrile	ND	<	100		453	488	µg/g	92.8	60	-	120	
Methyl Acetate	ND	<	500		1490	1610	µg/g	92.5	70	-	130	
2,3-Dimethylbutane	ND	<	30		156	165	µg/g	94.5	60	-	120	
Dichloromethane	ND	<	60		449	487	µg/g	92.2	60	-	120	
2-Methylpentane	ND	<	30		147	160	µg/g	91.9	60	-	120	
MTBE	ND	<	500		1490	1600	µg/g	93.1	70	-	130	
3-Methylpentane	ND	<	30		150	161	µg/g	93.2	60	-	120	
Hexane	ND	<	30		152	162	µg/g	93.8	60	-	120	
1-Propanol	ND	<	500		1540	1620	µg/g	95.1	70	-	130	
Methylethylketone	ND	<	500		1500	1610	µg/g	93.2	70	-	130	
Ethyl acetate	ND	<	200		1450	1600	µg/g	90.6	60	-	120	
2-Butanol	ND	<	200		1420	1610	µg/g	88.2	60	-	120	
Tetrahydrofuran	ND	<	100		437	483	µg/g	90.5	60	-	120	
Cyclohexane	ND	<	200		1440	1610	µg/g	89.4	60	-	120	
2-methyl-1-propanol	ND	<	500		1530	1630	µg/g	93.9	70	-	130	
Benzene	ND	<	1		3.57	4.98	µg/g	71.7	60	-	120	
Isopropyl Acetate	ND	<	200		1420	1610	µg/g	88.2	60	-	120	
Heptane	ND	<	200		1420	1620	µg/g	87.7	60	-	120	
1-Butanol	ND	<	500		1470	1600	µg/g	91.9	70	-	130	
Propyl Acetate	ND	<	500		1460	1620	µg/g	90.1	70	-	130	
1,4-Dioxane	ND	<	100		421	494	µg/g	85.2	60	-	120	
2-Ethoxyethanol	ND	<	30		136	165	µg/g	82.4	60	-	120	
Methylisobutylketone	ND	<	500		1410	1610	µg/g	87.6	70	-	130	
3-Methyl-1-butanol	ND	<	500		1670	1610	µg/g	103.7	70	-	130	
Ethylene Glycol	ND	<	200		360	486	µg/g	74.1	60	-	120	
Toluene	ND	<	100		407	513	µg/g	79.3	60	-	120	
Isobutyl Acetate	ND	<	500		1390	1600	µg/g	86.9	70	-	130	
1-Pentanol	ND	<	500		1410	1610	µg/g	87.6	70	-	130	
Butyl Acetate	ND	<	500		1380	1610	µg/g	85.7	70	-	130	
Ethylbenzene	ND	<	200		787	967	µg/g	81.4	60	-	120	
m,p-Xylene	ND	<	200		814	994	µg/g	81.9	60	-	120	
o-Xylene	ND	<	200		800	992	µg/g	80.6	60	-	120	
Cumene	ND	<	30		136	171	µg/g	79.5	60	-	120	
Anisole	ND	<	500		1280	1610	µg/g	79.5	70	-	130	
DMSO	ND	<	500		1340	1610	µg/g	83.2	70	-	130	
1,2-dimethoxyethane	ND	<	50		158	172	µg/g	91.9	70	-	130	
Triethylamine	ND	<	500		1500	1620	µg/g	92.6	70	-	130	
N,N-dimethylformamide	ND	<	150		424	499	µg/g	85.0	70	-	130	
N,N-dimethylacetamide	ND	<	150		404	491	µg/g	82.3	70	-	130	
Pyridine	ND	<	50		150	171	µg/g	87.7	70	-	130	
Sulfolane	ND	<	50		130	160	µg/g	81.3	70	-	130	
1,2-Dichloroethane	ND	<	1		0.858	1	µg/g	85.8	70	-	130	
Chloroform	ND	<	1		0.76	1	µg/g	76.0	70	-	130	
Trichloroethylene	ND	<	1		0.742	1	µg/g	74.2	70	-	130	
Ethylene Oxide	ND	<	1		0.812	1	µg/g	81.2	70	-	130	
Dichloromethane	ND	<	1		0.807	1	µg/g	80.7	70	-	130	
Benzene	ND	<	1		0.762	1	µg/g	76.2	70	-	130	
1,1-Dichloroethane	ND	<	1		0.806	1	µg/g	80.6	70	-	130	

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Revision: 2 Document ID: 7087
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QC- Sample Duplicate — Sample ID: 2184-01

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	
Ethylene Oxide	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Benzene	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: 23-003662/D001.R000
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Laboratory Pesticide Quality Control Results

AOAC 2007.1 &EN 15662			Units: mg/Kg					Batch ID 2305773		
Method Blank				Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Re	Limits		Notes
Abamectin	0.000	< 0.250		1.046	1.000	104.6	50.0	150	
Acephate	0.000	< 0.200		0.844	0.800	105.5	60.0	120	
Acequinocyl	0.000	< 1.000		4.069	4.000	101.7	40.0	160	
Acetamiprid	0.000	< 0.100		0.421	0.400	105.1	60.0	120	
Aldicarb	0.000	< 0.200		0.836	0.800	104.5	60.0	120	
Azoxystrobin	0.000	< 0.100		0.407	0.400	101.8	60.0	120	
Bifenazate	0.000	< 0.100		0.422	0.400	105.6	60.0	120	
Bifenthrin	0.000	< 0.100		0.413	0.400	103.4	50.0	150	
Boscalid	0.000	< 0.200		0.810	0.800	101.2	60.0	120	
Carbaryl	0.000	< 0.100		0.420	0.400	105.1	60.0	120	
Carbofuran	0.000	< 0.100		0.402	0.400	100.5	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.416	0.400	104.1	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.874	2.000	93.7	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.400	0.400	99.9	60.0	120	
Clofentezine	0.000	< 0.100		0.390	0.400	97.5	60.0	120	
Cyfluthrin	0.000	< 0.500		2.045	2.000	102.2	50.0	150	
Cypermethrin	0.000	< 0.500		2.056	2.000	102.8	50.0	150	
Daminozide	0.000	< 0.500		0.708	2.000	35.4	60.0	120	Q6
Diazinon	0.000	< 0.100		0.438	0.400	109.5	60.0	120	
Dichlorvos	0.000	< 0.500		2.038	2.000	101.9	60.0	120	
Dimethoate	0.000	< 0.100		0.426	0.400	106.4	60.0	120	
Ethoprophos	0.000	< 0.100		0.423	0.400	105.7	60.0	120	
Etofenprox	0.000	< 0.200		0.823	0.800	102.9	50.0	150	
Etoxazole	0.000	< 0.100		0.399	0.400	99.6	60.0	120	
Fenoxycarb	0.000	< 0.100		0.423	0.400	105.8	60.0	120	
Fenpyroximate	0.000	< 0.200		0.834	0.800	104.3	60.0	120	
Fipronil	0.000	< 0.200		0.835	0.800	104.4	60.0	120	
Flonicamid	0.000	< 0.250		1.032	1.000	103.2	60.0	120	
Fludioxonil	0.000	< 0.200		0.787	0.800	98.4	50.0	150	
Hexythiazox	0.000	< 0.250		1.012	1.000	101.2	60.0	120	
Imazalil	0.000	< 0.100		0.410	0.400	102.4	60.0	120	
Imidacloprid	0.000	< 0.200		0.847	0.800	105.9	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.853	0.800	106.6	60.0	120	
Malathion	0.000	< 0.100		0.418	0.400	104.4	60.0	120	
Metalaxyl	0.000	< 0.100		0.424	0.400	105.9	60.0	120	
Methiocarb	0.000	< 0.100		0.425	0.400	106.1	60.0	120	
Methomyl	0.000	< 0.200		0.842	0.800	105.3	60.0	120	
MGK-264	0.000	< 0.100		0.413	0.400	103.3	50.0	150	
Myclobutanil	0.000	< 0.100		0.402	0.400	100.5	60.0	120	
Naled	0.000	< 0.250		1.025	1.000	102.5	50.0	150	
Oxamyl	0.000	< 0.500		2.136	2.000	106.8	60.0	120	
Paclobutrazole	0.000	< 0.200		0.856	0.800	107.0	60.0	120	
Parathion-Methyl	0.000	< 0.100		0.377	0.400	94.3	50.0	150	
Permethrin	0.000	< 0.100		0.410	0.400	102.5	50.0	150	
Phosmet	0.000	< 0.100		0.422	0.400	105.6	50.0	150	
Piperonyl butoxide	0.000	< 0.500		2.106	2.000	105.3	60.0	120	
Prallethrin	0.000	< 0.100		0.419	0.400	104.8	60.0	120	
Propiconazole	0.000	< 0.200		0.830	0.800	103.7	60.0	120	
Propoxur	0.000	< 0.100		0.412	0.400	103.0	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.522	0.488	106.9	60.0	120	
Pyridaben	0.000	< 0.100		0.420	0.400	105.1	50.0	150	
Spinosad	0.000	< 0.100		0.395	0.388	101.7	50.0	150	
Spiromesifen	0.000	< 0.100		0.419	0.400	104.8	60.0	120	
Spirotetramat	0.000	< 0.100		0.412	0.400	103.1	60.0	120	
Spiroxamine	0.000	< 0.200		0.818	0.800	102.2	60.0	120	
Tebuconazole	0.000	< 0.200		0.831	0.800	103.9	60.0	120	
Thiacloprid	0.000	< 0.100		0.423	0.400	105.8	60.0	120	
Thiamethoxam	0.000	< 0.100		0.449	0.400	112.2	60.0	120	
Trifloxystrobin	0.000	< 0.100		0.406	0.400	101.6	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: 2305773

Matrix Spike/Matrix Spike Duplicate Recoveries | Sample ID: MS313601

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	1.029	1.012	1.000	1.7%	< 30	102.9%	101.2%	50 - 150	
Acephate	0.000	0.834	0.830	0.800	0.4%	< 30	104.3%	103.8%	50 - 150	
Acequinocyl	0.000	4.019	3.996	4.000	0.6%	< 30	100.5%	99.9%	50 - 150	
Acetamiprid	0.000	0.414	0.420	0.400	1.5%	< 30	103.5%	105.0%	50 - 150	
Aldicarb	0.000	0.827	0.884	0.800	6.7%	< 30	103.3%	110.4%	50 - 150	
Azoxystrobin	0.000	0.385	0.406	0.400	5.5%	< 30	96.2%	101.6%	50 - 150	
Bifenazate	0.000	0.424	0.458	0.400	7.8%	< 30	106.0%	114.6%	50 - 150	
Bifenthrin	0.000	0.406	0.409	0.400	0.6%	< 30	101.5%	102.2%	50 - 150	
Boscalid	0.000	0.801	0.839	0.800	4.7%	< 30	100.1%	104.9%	50 - 150	
Carbaryl	0.000	0.413	0.419	0.400	1.3%	< 30	103.3%	104.6%	50 - 150	
Carbofuran	0.000	0.407	0.406	0.400	0.2%	< 30	101.8%	101.6%	50 - 150	
Chlorantraniliprole	0.000	0.408	0.421	0.400	3.1%	< 30	101.9%	105.1%	50 - 150	
Chlorfenapyr	0.000	1.827	2.023	2.000	10.2%	< 30	91.4%	101.2%	50 - 150	
Chlorpyrifos	0.000	0.384	0.396	0.400	2.8%	< 30	96.1%	98.9%	50 - 150	
Clofentezine	0.000	0.322	0.322	0.400	0.1%	< 30	80.4%	80.5%	50 - 150	
Cyfluthrin	0.000	2.062	1.890	2.000	8.7%	< 30	103.1%	94.5%	30 - 150	
Cypermethrin	0.000	2.045	2.069	2.000	1.2%	< 30	102.2%	103.5%	50 - 150	
Daminozide	0.000	0.731	0.739	2.000	1.1%	< 30	36.6%	37.0%	30 - 150	
Diazinon	0.000	0.408	0.423	0.400	3.6%	< 30	102.1%	105.8%	50 - 150	
Dichlorvos	0.000	2.065	2.079	2.000	0.7%	< 30	103.3%	104.0%	50 - 150	
Dimethoate	0.000	0.421	0.433	0.400	2.9%	< 30	105.3%	108.3%	50 - 150	
Ethoprophos	0.000	0.416	0.424	0.400	2.0%	< 30	103.9%	106.1%	50 - 150	
Etofenprox	0.000	0.808	0.810	0.800	0.3%	< 30	101.0%	101.3%	50 - 150	
Etoxazole	0.000	0.398	0.406	0.400	2.1%	< 30	99.5%	101.5%	50 - 150	
Fenoxycarb	0.000	0.411	0.412	0.400	0.4%	< 30	102.7%	103.1%	50 - 150	
Fenpyroximate	0.000	0.865	0.853	0.800	1.4%	< 30	108.1%	106.6%	50 - 150	
Fipronil	0.000	0.784	0.850	0.800	8.1%	< 30	98.0%	106.3%	50 - 150	
Flonicamid	0.000	0.971	1.035	1.000	6.5%	< 30	97.1%	103.5%	50 - 150	
Fludioxonil	0.000	0.808	0.858	0.800	5.9%	< 30	101.0%	107.2%	50 - 150	
Hexythiazox	0.000	1.022	1.035	1.000	1.3%	< 30	102.2%	103.5%	50 - 150	
Imazalil	0.000	0.396	0.410	0.400	3.4%	< 30	99.1%	102.4%	50 - 150	
Imidacloprid	0.000	0.826	0.852	0.800	3.1%	< 30	103.3%	106.5%	50 - 150	
Kresoxim-methyl	0.000	0.828	0.807	0.800	2.6%	< 30	103.6%	100.9%	50 - 150	
Malathion	0.000	0.408	0.398	0.400	2.5%	< 30	102.0%	99.5%	50 - 150	
Metalaxyl	0.000	0.410	0.424	0.400	3.4%	< 30	102.4%	106.0%	50 - 150	
Methiocarb	0.000	0.414	0.422	0.400	1.8%	< 30	103.6%	105.5%	50 - 150	
Methomyl	0.000	0.878	0.821	0.800	6.7%	< 30	109.7%	102.7%	50 - 150	
MGK-264	0.000	0.399	0.417	0.400	4.4%	< 30	99.7%	104.2%	50 - 150	
Myclobutanil	0.000	0.386	0.419	0.400	8.3%	< 30	96.4%	104.8%	50 - 150	
Naled	0.000	0.994	1.008	1.000	1.4%	< 30	99.4%	100.8%	50 - 150	
Oxamyl	0.000	2.071	2.138	2.000	3.2%	< 30	103.5%	106.9%	50 - 150	
Paclobutrazole	0.000	0.826	0.848	0.800	2.6%	< 30	103.3%	106.0%	50 - 150	
Parathion-Methyl	0.000	0.402	0.432	0.400	7.1%	< 30	100.5%	107.9%	30 - 150	
Permethrin	0.000	0.390	0.404	0.400	3.5%	< 30	97.5%	101.0%	50 - 150	
Phosmet	0.000	0.413	0.404	0.400	2.4%	< 30	103.4%	100.9%	50 - 150	
Piperonyl butoxide	0.000	2.003	2.051	2.000	2.4%	< 30	100.1%	102.6%	50 - 150	
Prallethrin	0.000	0.411	0.418	0.400	1.7%	< 30	102.7%	104.5%	50 - 150	
Propiconazole	0.000	0.877	0.880	0.800	0.3%	< 30	109.6%	110.0%	50 - 150	
Propoxur	0.000	0.405	0.419	0.400	3.3%	< 30	101.3%	104.7%	50 - 150	
Pyrethrin (Summe)	0.000	0.696	0.716	0.488	2.8%	< 30	142.7%	146.7%	50 - 150	
Pyridaben	0.000	0.417	0.430	0.400	2.9%	< 30	104.4%	107.4%	50 - 150	
Spinosad	0.000	0.391	0.398	0.388	1.6%	< 30	100.9%	102.5%	50 - 150	
Spiromesifen	0.000	0.412	0.418	0.400	1.5%	< 30	103.0%	104.6%	50 - 150	
Spirotetramat	0.000	0.400	0.414	0.400	3.5%	< 30	100.0%	103.5%	50 - 150	
Spiroxamine	0.000	0.822	0.835	0.800	1.6%	< 30	102.7%	104.4%	50 - 150	
Tebuconazole	0.000	0.801	0.837	0.800	4.5%	< 30	100.1%	104.7%	50 - 150	
Thiacloprid	0.000	0.419	0.447	0.400	6.6%	< 30	104.7%	111.8%	50 - 150	
Thiamethoxam	0.000	0.424	0.438	0.400	3.3%	< 30	106.1%	109.6%	50 - 150	
Trifloxystrobin	0.000	0.395	0.404	0.400	2.0%	< 30	98.9%	100.9%	50 - 150	

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Laboratory Quality Control Results

J AOAC 2015 V98-6 — **Batch ID: 2305442, 2305819**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0335	0.034	%	99.3	80.0 - 120	Acceptable	
CBDV	2	0.0326	0.033	%	97.5	80.0 - 120	Acceptable	
CBE	2	0.0330	0.033	%	98.6	80.0 - 120	Acceptable	
CBDA	1	0.0295	0.031	%	95.4	90.0 - 110	Acceptable	
CBGA	1	0.0249	0.026	%	96.7	80.0 - 120	Acceptable	
CBG	1	0.0301	0.031	%	96.8	80.0 - 120	Acceptable	
CBD	1	0.0261	0.027	%	95.0	90.0 - 110	Acceptable	
THCV	2	0.0340	0.034	%	99.4	80.0 - 120	Acceptable	
d8THCV	2	0.0331	0.033	%	99.5	80.0 - 120	Acceptable	
THCVA	2	0.0333	0.033	%	99.5	80.0 - 120	Acceptable	
CBN	1	0.0265	0.027	%	98.3	80.0 - 120	Acceptable	
exo-THC	2	0.0318	0.032	%	98.1	80.0 - 120	Acceptable	
d9THC	1	0.0316	0.031	%	101	90.0 - 110	Acceptable	
d8THC	1	0.0316	0.031	%	101	90.0 - 110	Acceptable	
9S-d10THC	1	0.0315	0.031	%	100	80.0 - 120	Acceptable	
CBL	2	0.0322	0.033	%	96.5	80.0 - 120	Acceptable	
9R-d10THC	1	0.0295	0.032	%	92.3	80.0 - 120	Acceptable	
CBC	2	0.0332	0.033	%	99.4	80.0 - 120	Acceptable	
THCA	1	0.0353	0.036	%	98.2	90.0 - 110	Acceptable	
CBCA	2	0.0343	0.034	%	100	80.0 - 120	Acceptable	
CBLA	2	0.0338	0.035	%	97.0	80.0 - 120	Acceptable	
CBT	2	0.0311	0.034	%	92.4	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	
9S-d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
9R-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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-003662/D001.R000
Report Date: 04/11/2023
ORELAP#: OR100028
Purchase Order:
Received: 03/29/23 13:37

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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2305442, 2305819**

Sample Duplicate Sample ID: **23-003032-0001**

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	0.00900	0.00947	0.003	%	5.08	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 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	0.246	0.259	0.003	%	4.98	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.00531	0.00559	0.003	%	5.13	< 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	

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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.