Lazarus Naturals

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU CRM.BIR20 **BATCH #** EI15

PRODUCT NAME Bruise & Injury Cream **SERVING SIZE** 1 tsp (~4.89g)

LABORATORY: SC 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)	**160.50**	**mg/serving**	32.85	mg/g	3.28	%
Total THC (d9-THC, THCA)	**7.91**	**mg/serving**	1.62	mg/g	0.16	%
Cannabigerol (CBG)	**2.63**	**mg/serving**	0.54	mg/g	0.05	%
Cannabinol (CBN)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ	%
Cannabichromene (CBC)	**4.19**	**mg/serving**	0.86	mg/g	0.09	%
Tetrahydrocannabinolic Acid (THCA)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ	%
Delta-9-THC (d9-THC)	**7.91**	**mg/serving**	1.62	mg/g	0.16	%
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

None of the other 59 pesticides tested found above regulatory action level in the sample.

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: 23-000165/D007.R002
Report Date: 02/16/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/04/23 15:05

This is an amended version of report# 23-000165/D007.R001.
Reason: Updated report format.

Customer: Etz Hayim Holdings
Product identity: FORM-CRM.BIR20-EI15
Client/Metrc ID: .
Laboratory ID: 23-000165-0001

Summary

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

Analyte	Result (mg/kg)	Limits (mg/kg)	Status
Azoxystrobin¥	0.29		
Propiconazole¥	0.20		
Fludioxonil¥	0.20		

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.

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Report Date:	02/16/2023
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-CRM.BIR20-EI15
Client/Metrc ID: .
Sample Date:
Laboratory ID: 23-000165-0001
Evidence of Cooling: No
Temp: 18.8 °C
Relinquished by: client
Serving Size #1: 1 g

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2300190	01/11/23	AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2300190	01/11/23	AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2300191	01/11/23	AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2300191	01/11/23	AOAC 2014.05 (RAPID)		

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Solvents **Method:** Residual Solvents by GC/MS **Units** µg/g **Batch** 2300600 **Analyze** 01/19/23 12:09 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane¥	< LOQ		100			2-Butanol¥	< LOQ		200		
2-Ethoxyethanol¥	< LOQ		30.0			2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)¥	< LOQ		200		
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		200			Acetonitrile¥	< LOQ		100		
Benzene¥	< LOQ		1.00			Butanes (sum)	< LOQ		400		
Cyclohexane¥	< LOQ		200			Ethanol¥	< LOQ		200		
Ethyl acetate¥	< LOQ		200			Ethyl benzene	< LOQ		200		
Ethyl ether¥	< LOQ		200			Ethylene glycol¥	< LOQ		200		
Ethylene oxide¥	< LOQ		20.0			Hexanes (sum)	< LOQ		150		
Isopropyl acetate¥	< LOQ		200			Isopropylbenzene (Cumene)¥	< LOQ		30.0		
m,p-Xylene	< LOQ		200			Methanol¥	< LOQ		200		
Methylene chloride¥	< LOQ		60.0			Methylpropane (Isobutane)	< LOQ		200		
n-Butane¥	< LOQ		200			n-Heptane¥	< LOQ		200		
n-Hexane¥	< LOQ		30.0			n-Pentane¥	< LOQ		200		
o-Xylene	< LOQ		200			Pentanes (sum)	< LOQ		600		
Propane¥	< LOQ		200			Tetrahydrofuran¥	< LOQ		100		
Toluene¥	< LOQ		100			Total Xylenes¥	< LOQ		400		
Total Xylenes and Ethyl benzene	< LOQ		600								

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Pesticides

Method: AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2300339 **Analyze** 01/11/23 02:53 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin¥	< LOQ		0.250			Acephate	< LOQ		0.200		
Acequinocyl¥	< LOQ		1.00			Acetamiprid	< LOQ		0.100		
Aldicarb¥	< LOQ		0.200			Azoxystrobin¥	0.29		0.100		
Bifenazate¥	< LOQ		0.100			Bifenthrin¥	< LOQ		0.100		
Boscalid¥	< LOQ		0.200			Carbaryl¥	< LOQ		0.100		
Carbofuran¥	< LOQ		0.100			Chlorantraniliprole¥	< LOQ		0.100		
Chlorfenapyr¥	< LOQ		0.500			Chlorpyrifos¥	< LOQ		0.100		
Clofentezine¥	< LOQ		0.100			Cyfluthrin¥	< LOQ		0.500		
Cypermethrin¥	< LOQ		0.500			Daminozide¥	< LOQ		0.500		
Diazinon¥	< LOQ		0.100			Dichlorvos¥	< LOQ		0.500		
Dimethoate¥	< LOQ		0.100			Ethoprophos¥	< LOQ		0.100		
Etofenprox¥	< LOQ		0.200			Etoxazole¥	< LOQ		0.100		
Fenoxycarb¥	< LOQ		0.100			Fenpyroximate¥	< LOQ		0.200		
Fipronil¥	< LOQ		0.200			Flonicamid¥	< LOQ		0.400		
Fludioxonil¥	0.20		0.200			Hexythiazox¥	< LOQ		0.400		
Imazalil¥	< LOQ		0.100			Imidacloprid¥	< LOQ		0.200		
Kresoxim-methyl¥	< LOQ		0.200			Malathion¥	< LOQ		0.100		
Metalaxyl¥	< LOQ		0.100			Methiocarb¥	< LOQ		0.100		
Methomyl¥	< LOQ		0.200			MGK-264¥	< LOQ		0.100		
Myclobutanil¥	< LOQ		0.100			Naled¥	< LOQ		0.250		
Oxamyl¥	< LOQ		0.500			Paclobutrazole¥	< LOQ		0.200		
Parathion-Methyl¥	< LOQ		0.100			Permethrin¥	< LOQ		0.100		
Phosmet¥	< LOQ		0.100			Piperonyl butoxide¥	< LOQ		1.00		
Prallethrin¥	< LOQ		0.100			Propiconazole¥	0.20		0.200		
Propoxur¥	< LOQ		0.100			Pyrethrin I (total)¥	< LOQ		0.500		
Pyridaben¥	< LOQ		0.100			Spinosad¥	< LOQ		0.100		
Spiromesifen¥	< LOQ		0.100			Spirotetramat¥	< LOQ		0.100		
Spiroxamine¥	< LOQ		0.200			Tebuconazole¥	< LOQ		0.200		
Thiacloprid¥	< LOQ		0.100			Thiamethoxam¥	< LOQ		0.100		
Trifloxystrobin¥	< LOQ		0.100								

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Arsenic	< LOQ		mg/kg	0.0740	2300308	01/10/23	AOAC 2013.06 (mod.)		
Cadmium	< LOQ		mg/kg	0.0740	2300308	01/10/23	AOAC 2013.06 (mod.)		
Lead	< LOQ		mg/kg	0.0740	2300308	01/10/23	AOAC 2013.06 (mod.)		
Mercury	< LOQ		mg/kg	0.0370	2300308	01/10/23	AOAC 2013.06 (mod.)		

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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.

¥ = TNI accredited analyte.

Units of Measure

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

Approved Signatory

Derrick Tanner
General Manager

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Report Number: 23-000165/D007.R002
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Purchase Order:
Received: 01/04/23 15:05

Revision: 3 Document ID: 3120
LegacyID: CFLC21WorksheetValidated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 &EN 15662			Units: mg/Kg				Batch ID: 2300339			
Method Blank				Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits			Notes
Abamectin	0.000	< 0.250		0.903	1.000	90.3	50.0	150		
Acephate	0.000	< 0.200		0.711	0.800	88.9	60.0	120		
Acequinocyl	0.000	< 1.000		3.399	4.000	85.0	40.0	160		
Acetamiprid	0.000	< 0.100		0.364	0.400	91.0	60.0	120		
Aldicarb	0.000	< 0.200		0.715	0.800	89.3	60.0	120		
Azoxystrobin	0.000	< 0.100		0.353	0.400	88.3	60.0	120		
Bifenazate	0.000	< 0.100		0.385	0.400	96.2	60.0	120		
Bifenthrin	0.000	< 0.100		0.355	0.400	88.8	50.0	150		
Boscalid	0.000	< 0.200		0.713	0.800	89.1	60.0	120		
Carbaryl	0.000	< 0.100		0.355	0.400	88.6	60.0	120		
Carbofuran	0.000	< 0.100		0.365	0.400	91.2	60.0	120		
Chlorantraniliprole	0.000	< 0.100		0.360	0.400	90.0	60.0	120		
Chlorfenapyr	0.000	< 0.500		1.910	2.000	95.5	60.0	120		
Chlorpyrifos	0.000	< 0.100		0.353	0.400	88.2	60.0	120		
Clofentezine	0.000	< 0.100		0.295	0.400	73.8	60.0	120		
Cyfluthrin	0.000	< 0.500		1.678	2.000	83.9	50.0	150		
Cypermethrin	0.000	< 0.500		1.788	2.000	89.4	50.0	150		
Daminozide	0.000	< 0.500		0.836	2.000	41.8	60.0	120		Q6
Diazinon	0.000	< 0.100		0.340	0.400	85.0	60.0	120		
Dichlorvos	0.000	< 0.500		1.754	2.000	87.7	60.0	120		
Dimethoate	0.000	< 0.100		0.368	0.400	91.9	60.0	120		
Ethoprophos	0.000	< 0.100		0.362	0.400	90.6	60.0	120		
Etofenprox	0.000	< 0.200		0.700	0.800	87.6	50.0	150		
Etoxazole	0.000	< 0.100		0.351	0.400	87.7	60.0	120		
Fenoxycarb	0.000	< 0.100		0.363	0.400	90.8	60.0	120		
Fenpyroximate	0.000	< 0.200		0.722	0.800	90.2	60.0	120		
Fipronil	0.000	< 0.200		0.729	0.800	91.1	60.0	120		
Flonicamid	0.000	< 0.250		0.986	1.000	98.6	60.0	120		
Fludioxonil	0.001	< 0.200		0.715	0.800	89.4	50.0	150		
Hexythiazox	0.000	< 0.250		0.873	1.000	87.3	60.0	120		
Imazalil	0.000	< 0.100		0.366	0.400	91.5	60.0	120		
Imidacloprid	0.000	< 0.200		0.735	0.800	91.9	60.0	120		
Kresoxim-methyl	0.000	< 0.200		0.724	0.800	90.5	60.0	120		
Malathion	0.000	< 0.100		0.363	0.400	90.7	60.0	120		
Metalaxyl	0.000	< 0.100		0.367	0.400	91.7	60.0	120		
Methiocarb	0.000	< 0.100		0.362	0.400	90.6	60.0	120		
Methomyl	0.000	< 0.200		0.801	0.800	100.1	60.0	120		
MGK-264	0.000	< 0.100		0.357	0.400	89.3	50.0	150		
Myclobutanil	0.000	< 0.100		0.366	0.400	91.4	60.0	120		
Naled	0.000	< 0.250		0.871	1.000	87.1	50.0	150		
Oxamyl	0.000	< 0.500		1.963	2.000	98.2	60.0	120		
Paclobutrazole	0.000	< 0.200		0.721	0.800	90.2	60.0	120		
Parathion-Methyl	0.000	< 0.100		0.399	0.400	99.7	50.0	150		
Permethrin	0.000	< 0.100		0.365	0.400	91.2	50.0	150		
Phosmet	0.000	< 0.100		0.364	0.400	91.0	50.0	150		
Piperonyl butoxide	0.000	< 0.500		1.777	2.000	88.8	60.0	120		
Prallethrin	0.000	< 0.100		0.359	0.400	89.8	60.0	120		
Propiconazole	0.000	< 0.200		0.724	0.800	90.5	60.0	120		
Propoxur	0.000	< 0.100		0.360	0.400	89.9	60.0	120		
Pyrethrin (Summe)	0.000	< 0.100		0.437	0.488	89.5	60.0	120		
Pyridaben	0.000	< 0.100		0.355	0.400	88.7	50.0	150		
Spinosad	0.000	< 0.100		0.352	0.388	90.6	50.0	150		
Spiromesifen	0.000	< 0.100		0.361	0.400	90.2	60.0	120		
Spirotetramat	0.000	< 0.100		0.366	0.400	91.6	60.0	120		
Spiroxamine	0.000	< 0.200		0.724	0.800	90.6	60.0	120		
Tebuconazole	0.000	< 0.200		0.722	0.800	90.2	60.0	120		
Thiadoprid	0.000	< 0.100		0.358	0.400	89.5	60.0	120		
Thiamethoxam	0.000	< 0.100		0.392	0.400	97.9	60.0	120		
Trifloxystrobin	0.000	< 0.100		0.359	0.400	89.9	60.0	120		

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 &EN 15662 | Units: mg/Kg | Batch ID: 2300339

Matrix Spike/Matrix Spike Duplicate Recoveries | Sample ID: 23-0001540006

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.901	0.920	1.000	2.1%	< 30	90.1%	92.0%	50 - 150	
Acephate	0.000	0.745	0.741	0.800	0.6%	< 30	93.2%	92.6%	50 - 150	
Acequinocyl	0.000	3.500	3.621	4.000	3.4%	< 30	87.5%	90.5%	50 - 150	
Acetamiprid	0.000	0.372	0.378	0.400	1.7%	< 30	93.0%	94.6%	50 - 150	
Aldicarb	0.000	0.728	0.756	0.800	3.7%	< 30	91.0%	94.5%	50 - 150	
Azoxystrobin	0.014	0.373	0.364	0.400	2.3%	< 30	89.5%	87.5%	50 - 150	
Bifenazate	0.000	0.383	0.389	0.400	1.7%	< 30	95.7%	97.3%	50 - 150	
Bifenthrin	0.000	0.360	0.368	0.400	2.1%	< 30	90.0%	92.0%	50 - 150	
Boscalid	0.000	0.742	0.755	0.800	1.8%	< 30	92.7%	94.4%	50 - 150	
Carbaryl	0.000	0.369	0.370	0.400	0.3%	< 30	92.3%	92.6%	50 - 150	
Carbofuran	0.000	0.376	0.384	0.400	2.1%	< 30	94.0%	96.0%	50 - 150	
Chlorantraniliprole	0.000	0.366	0.374	0.400	2.1%	< 30	91.4%	93.4%	50 - 150	
Chlorfenapyr	0.000	1.925	2.088	2.000	8.1%	< 30	96.3%	104.4%	50 - 150	
Chlorpyrifos	0.000	0.355	0.362	0.400	2.1%	< 30	88.7%	90.6%	50 - 150	
Clofentezine	0.000	0.123	0.145	0.400	16.3%	< 30	30.7%	36.1%	50 - 150	Q
Cyfluthrin	0.000	1.801	1.879	2.000	4.3%	< 30	90.0%	94.0%	30 - 150	
Cypermethrin	0.000	1.944	1.875	2.000	3.6%	< 30	97.2%	93.8%	50 - 150	
Daminozide	0.000	0.859	0.901	2.000	4.8%	< 30	42.9%	45.0%	30 - 150	
Diazinon	0.000	0.354	0.357	0.400	0.6%	< 30	88.6%	89.2%	50 - 150	
Dichlorvos	0.000	1.857	1.884	2.000	1.4%	< 30	92.9%	94.2%	50 - 150	
Dimethoate	0.000	0.380	0.385	0.400	1.2%	< 30	95.0%	96.2%	50 - 150	
Ethoprophos	0.000	0.368	0.370	0.400	0.4%	< 30	92.1%	92.5%	50 - 150	
Etofenprox	0.000	0.722	0.731	0.800	1.3%	< 30	90.2%	91.3%	50 - 150	
Etoxazole	0.000	0.359	0.370	0.400	3.0%	< 30	89.9%	92.6%	50 - 150	
Fenoxycarb	0.000	0.365	0.371	0.400	1.8%	< 30	91.2%	92.8%	50 - 150	
Fenpyroximate	0.000	0.821	0.820	0.800	0.1%	< 30	102.6%	102.5%	50 - 150	
Fipronil	0.000	0.756	0.763	0.800	0.9%	< 30	94.4%	95.3%	50 - 150	
Flonicamid	0.000	0.772	0.730	1.000	5.6%	< 30	77.2%	73.0%	50 - 150	
Fludioxonil	0.000	0.736	0.747	0.800	1.5%	< 30	92.0%	93.4%	50 - 150	
Hexythiazox	0.000	0.903	0.925	1.000	2.5%	< 30	90.3%	92.5%	50 - 150	
Imazalil	0.000	0.379	0.379	0.400	0.2%	< 30	94.8%	94.8%	50 - 150	
Imidacloprid	0.000	0.736	0.755	0.800	2.5%	< 30	92.0%	94.4%	50 - 150	
Kresoxim-methyl	0.000	0.734	0.732	0.800	0.3%	< 30	91.8%	91.5%	50 - 150	
Malathion	0.000	0.368	0.371	0.400	0.8%	< 30	92.0%	92.7%	50 - 150	
Metalaxyl	0.000	0.373	0.377	0.400	1.1%	< 30	93.2%	94.2%	50 - 150	
Methiocarb	0.000	0.374	0.373	0.400	0.3%	< 30	93.6%	93.3%	50 - 150	
Methomyl	0.000	0.735	0.757	0.800	3.0%	< 30	91.9%	94.7%	50 - 150	
MGK-264	0.000	0.358	0.365	0.400	2.0%	< 30	89.5%	91.3%	50 - 150	
Mydobutanil	0.000	0.373	0.354	0.400	5.2%	< 30	93.2%	88.5%	50 - 150	
Naled	0.000	0.914	0.935	1.000	2.3%	< 30	91.4%	93.5%	50 - 150	
Oxamyl	0.000	2.011	1.933	2.000	4.0%	< 30	100.6%	96.6%	50 - 150	
Padobutrazole	0.000	0.743	0.743	0.800	0.1%	< 30	92.8%	92.9%	50 - 150	
Parathion-Methyl	0.000	0.335	0.384	0.400	13.6%	< 30	83.7%	96.0%	30 - 150	
Permethrin	0.000	0.359	0.362	0.400	0.8%	< 30	89.8%	90.5%	50 - 150	
Phosmet	0.000	0.381	0.381	0.400	0.1%	< 30	95.3%	95.4%	50 - 150	
Piperonyl butoxide	0.000	1.765	1.813	2.000	2.7%	< 30	88.2%	90.6%	50 - 150	
Prallethrin	0.000	0.356	0.361	0.400	1.3%	< 30	89.1%	90.2%	50 - 150	
Propiconazole	0.000	0.756	0.755	0.800	0.2%	< 30	94.5%	94.3%	50 - 150	
Propoxur	0.000	0.367	0.378	0.400	2.9%	< 30	91.7%	94.5%	50 - 150	
Pyrethrin (Summe)	0.007	0.402	0.404	0.488	0.7%	< 30	80.9%	81.4%	50 - 150	
Pyridaben	0.000	0.341	0.344	0.400	0.9%	< 30	85.3%	86.1%	50 - 150	
Spinosad	0.000	0.358	0.358	0.388	0.0%	< 30	92.3%	92.3%	50 - 150	
Spiromesifen	0.000	0.370	0.376	0.400	1.6%	< 30	92.4%	93.9%	50 - 150	
Spirotetramat	0.000	0.373	0.375	0.400	0.7%	< 30	93.2%	93.8%	50 - 150	
Spiroxamine	0.000	0.710	0.745	0.800	4.9%	< 30	88.7%	93.2%	50 - 150	
Tebuconazole	0.000	0.733	0.735	0.800	0.3%	< 30	91.6%	91.8%	50 - 150	
Thiadoprid	0.000	0.380	0.382	0.400	0.5%	< 30	95.0%	95.5%	50 - 150	
Thiamethoxam	0.000	0.335	0.332	0.400	0.9%	< 30	83.8%	83.1%	50 - 150	
Trifloxystrobin	0.000	0.370	0.364	0.400	1.4%	< 30	92.4%	91.1%	50 - 150	

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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503-254-1794

Report Number: 23-000165/D007.R002
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Laboratory Quality Control Results

JAOAC 2015 V98-6 Batch ID: 2300373

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	%Rec	Limits	Evaluation	Notes
CBDVA	2	0.0320	0.033	%	95.9	80.0 - 120	Acceptable	
CBDV	2	0.0352	0.035	%	99.7	80.0 - 120	Acceptable	
CBE	2	0.0332	0.035	%	94.9	80.0 - 120	Acceptable	
CBDA	1	0.0319	0.033	%	97.5	90.0 - 110	Acceptable	
CBGA	1	0.0318	0.032	%	98.3	80.0 - 120	Acceptable	
CBG	1	0.0316	0.032	%	98.6	80.0 - 120	Acceptable	
CBD	1	0.0310	0.032	%	97.5	90.0 - 110	Acceptable	
THCV	2	0.0337	0.035	%	95.1	80.0 - 120	Acceptable	
d8THCV	2	0.0334	0.034	%	96.9	80.0 - 120	Acceptable	
THCVA	2	0.0317	0.033	%	96.1	80.0 - 120	Acceptable	
CBN	1	0.0329	0.033	%	99.2	80.0 - 120	Acceptable	
exo-THC	2	0.0310	0.032	%	95.7	80.0 - 120	Acceptable	
d9THC	1	0.0338	0.035	%	95.8	90.0 - 110	Acceptable	
d8THC	1	0.0325	0.031	%	104	90.0 - 110	Acceptable	
CBL	2	0.0328	0.035	%	94.9	80.0 - 120	Acceptable	
d10THC	1	0.0316	0.032	%	98.1	80.0 - 120	Acceptable	
CBC	2	0.0332	0.035	%	96.0	80.0 - 120	Acceptable	
THCA	1	0.0318	0.033	%	97.3	90.0 - 110	Acceptable	
CBCA	2	0.0333	0.034	%	97.0	80.0 - 120	Acceptable	
CBLA	2	0.0336	0.035	%	96.1	80.0 - 120	Acceptable	
CBT	2	0.0342	0.035	%	97.4	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	
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

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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Laboratory Quality Control Results

JAOAC 2015 V98-6 Batch ID: 2300373
Sample Duplicate Sample ID: 23-000165-0001

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0116	0.0119	0.003	%	2.22	< 20	Acceptable	
CBE	0.0623	0.0626	0.003	%	0.534	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0500	0.0500	0.003	%	0.0188	< 20	Acceptable	
CBD	2.83	2.80	0.003	%	0.928	< 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	0.149	0.149	0.003	%	0.328	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	0.0077	0.0081	0.003	%	4.92	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0919	0.0920	0.003	%	0.141	< 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	0.0440	0.0442	0.003	%	0.446	< 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 Quality Control Results

Residual Solvents Batch ID: 2300600

Method Blank					Laboratory Control Sample							
Analyte	Result		LOQ	Notes	Result	Spike	Units	%Rec	Limits			Notes
Propane	ND	<	200		539	572	µg/g	94.2	60	-	120	
Isobutane	ND	<	200		630	731	µg/g	86.2	60	-	120	
Butane	ND	<	200		618	731	µg/g	84.5	60	-	120	
2,2-Dimethylpropane	ND	<	200		830	936	µg/g	88.7	60	-	120	
Methanol	ND	<	200		1590	1620	µg/g	98.1	60	-	120	
Ethylene Oxide	ND	<	30		51.5	56.2	µg/g	91.6	60	-	120	
2-Methylbutane	ND	<	200		1270	1610	µg/g	78.9	60	-	120	
Pentane	ND	<	200		1250	1600	µg/g	78.1	60	-	120	
Ethanol	ND	<	200		1180	1610	µg/g	73.3	70	-	130	
Ethyl Ether	ND	<	200		1300	1630	µg/g	79.8	60	-	120	
2,2-Dimethylbutane	ND	<	30		134	171	µg/g	78.4	60	-	120	
Acetone	ND	<	200		1400	1630	µg/g	85.9	60	-	120	
2-Propanol	ND	<	200		1530	1620	µg/g	94.4	60	-	120	
Ethyl Formate	ND	<	500		1530	1670	µg/g	91.6	70	-	130	
Acetonitrile	ND	<	100		413	498	µg/g	82.9	60	-	120	
Methyl Acetate	ND	<	500		1550	1730	µg/g	89.6	70	-	130	
2,3-Dimethylbutane	ND	<	30		143	171	µg/g	83.6	60	-	120	
Dichloromethane	ND	<	60		422	483	µg/g	87.4	60	-	120	
2-Methylpentane	ND	<	30		126	168	µg/g	75.0	60	-	120	
MTBE	ND	<	500		1480	1650	µg/g	89.7	70	-	130	
3-Methylpentane	ND	<	30		127	167	µg/g	76.0	60	-	120	
Hexane	ND	<	30		187	182	µg/g	102.7	60	-	120	
1-Propanol	ND	<	500		1750	1620	µg/g	108.0	70	-	130	
Methylethylketone	ND	<	500		1580	1620	µg/g	97.5	70	-	130	
Ethyl acetate	ND	<	200		1530	1610	µg/g	95.0	60	-	120	
2-Butanol	ND	<	200		1540	1600	µg/g	96.3	60	-	120	
Tetrahydrofuran	ND	<	100		329	483	µg/g	68.1	60	-	120	
Cyclohexane	ND	<	200		1290	1610	µg/g	80.1	60	-	120	
2-methyl-1-propanol	ND	<	500		1830	1620	µg/g	113.0	70	-	130	
Benzene	ND	<	1		4.21	5.02	µg/g	83.9	60	-	120	
Isopropyl Acetate	ND	<	200		1380	1620	µg/g	85.2	60	-	120	
Heptane	ND	<	200		1480	1610	µg/g	91.9	60	-	120	
1-Butanol	ND	<	500		1760	1630	µg/g	108.0	70	-	130	
Propyl Acetate	ND	<	500		1450	1610	µg/g	90.1	70	-	130	
1,4-Dioxane	ND	<	100		330	491	µg/g	67.2	60	-	120	
2-Ethoxyethanol	ND	<	30		391	181	µg/g	216.0	60	-	120	Q1
Methylisobutylketone	ND	<	500		1850	1620	µg/g	114.2	70	-	130	
3-Methyl-1-butanol	ND	<	500		1610	1630	µg/g	98.8	70	-	130	
Ethylene Glycol	ND	<	200		399	484	µg/g	82.4	60	-	120	
Toluene	ND	<	100		373	485	µg/g	76.9	60	-	120	
Isobutyl Acetate	ND	<	500		1750	1630	µg/g	107.4	70	-	130	
1-Pentanol	ND	<	500		1610	1620	µg/g	99.4	70	-	130	
Butyl Acetate	ND	<	500		1850	1620	µg/g	114.2	70	-	130	
Ethylbenzene	ND	<	200		844	969	µg/g	87.1	60	-	120	
m,p-Xylene	ND	<	200		793	994	µg/g	79.8	60	-	120	
o-Xylene	ND	<	200		722	967	µg/g	74.7	60	-	120	
Cumene	ND	<	30		93	171	µg/g	54.4	60	-	120	Q6
Anisole	ND	<	500		1620	1630	µg/g	99.4	70	-	130	
DMSO	ND	<	500		1110	1680	µg/g	66.1	70	-	130	Q6
1,2-dimethoxyethane	ND	<	50		170	169	µg/g	100.6	70	-	130	
Triethylamine	ND	<	500		1550	1630	µg/g	95.1	70	-	130	
N,N-dimethylformamide	ND	<	150		445	482	µg/g	92.3	70	-	130	
N,N-dimethylacetamide	ND	<	150		290	510	µg/g	56.9	70	-	130	Q6
Pyridine	ND	<	50		236	203	µg/g	116.3	70	-	130	
Sulfolane	ND	<	50		134	172	µg/g	77.9	70	-	130	
1,2-Dichloroethane	ND	<	1		1.01	1	µg/g	101.0	70	-	130	
Chloroform	ND	<	1		1.03	1	µg/g	103.0	70	-	130	
Trichloroethylene	ND	<	1		1.04	1	µg/g	104.0	70	-	130	
1,1-Dichloroethane	ND	<	1		0.962	1	µg/g	96.2	70	-	130	

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QC- Sample Duplicate — Sample ID: 23-000154-0001

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	925	272	200	µg/g	109.1	< 20	FAIL	Q4
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.
Q4- Non-homogenous sample matrix, affecting RPD result and/or %recoveries.
Q6- Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

µg/g- Microgram per gram or ppm

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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.