Columbia LABORATORIES
A Tentamus Company

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

Report Number: 22-006912/D006.R000
Report Date: 06/21/2022
ORELAP#: OR100028
Purchase Order:
Received: 06/14/22 10:30

Customer: Lifted Made
Product identity: Strawberry Tangelo BL-Puck 1472022LDB000421 10mg D9
Client/Metrc ID: .
Laboratory ID: 22-006912-0001

Summary

Potency:

Analyte per 3.75g	Result	Limits	Units	Status
Δ8-THC per 3.75g†	0.863		mg/3.75g	
Δ9-THC per 3.75g	10.1		mg/3.75g	

THC-Total per 3.75g	10.1 mg/3.75g
CBD-Total per 3.75g	<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
Lead	0.0254	mg/kg	0.500	pass

Microbiology:

Less than LOQ for all analytes.

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Customer: Lifted Made
43360 N US HWY 41 Unit H
Zion Illinois 60099
United States of America (USA)

Product identity: Strawberry Tangelo BL-Puck 1472022LDB000421 10mg D9
Client/Metrc ID: .
Sample Date:
Laboratory ID: 22-006912-0001
Evidence of Cooling: No
Temp: 19.9 °C
Relinquished by: UPS
Serving Size #1: 3.75 g

Sample Results

Potency per 3.75g **Method** J AOAC 2015 V98-6 (mod) **Units** mg/se **Batch:** 2205157 **Analyze:** 6/15/22 9:52:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 3.75g	< LOQ		mg/3.75g	0.121	
CBD-A per 3.75g	< LOQ		mg/3.75g	0.121	
CBD-Total per 3.75g	< LOQ		mg/3.75g	0.227	
CBG per 3.75g†	< LOQ		mg/3.75g	0.121	
CBG-A per 3.75g†	< LOQ		mg/3.75g	0.121	
CBG-Total per 3.75g†	< LOQ		mg/3.75g	0.226	
CBN per 3.75g	< LOQ		mg/3.75g	0.121	
Δ8-THC per 3.75g†	0.863		mg/3.75g	0.121	
Δ9-THC per 3.75g	10.1		mg/3.75g	0.121	
THC-A per 3.75g	< LOQ		mg/3.75g	0.121	
THC-Total per 3.75g	10.1		mg/3.75g	0.227	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2205098	06/17/22	AOAC 990.12 (Petrifilm)		X
E.coli	< LOQ		cfu/g	10	2205096	06/17/22	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2205096	06/17/22	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2205097	06/18/22	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2205097	06/18/22	AOAC 2014.05 (RAPID)		X

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Solvents **Method** Residual Solvents by GC/MS **Units** µg/g **Batch** 2205275 **Analyze** 06/21/22 10:18 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		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) **Units** mg/kg **Batch** 2205215 **Analyze** 06/17/22 04:34 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	0.200	mg/kg	0.0187	2205152	06/15/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	0.0187	2205152	06/15/22	AOAC 2013.06 (mod.)	pass	X
Lead	0.0254	0.500	mg/kg	0.0187	2205152	06/15/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.00934	2205152	06/15/22	AOAC 2013.06 (mod.)	pass	X

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Revision: 1 Document ID: 7148
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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2205157**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	1	0.0345	0.033	%	104	80.0 - 120	Acceptable	
CBDV	1	0.0371	0.033	%	111	80.0 - 120	Acceptable	
CBE	1	0.0336	0.033	%	101	80.0 - 120	Acceptable	
CBDA	1	0.0356	0.033	%	107	90.0 - 110	Acceptable	
CBGA	1	0.0338	0.033	%	101	80.0 - 120	Acceptable	
CBG	1	0.0336	0.033	%	101	80.0 - 120	Acceptable	
CBD	1	0.0354	0.033	%	106	90.0 - 110	Acceptable	
THCV	1	0.0336	0.033	%	101	80.0 - 120	Acceptable	
d8THCV	1	0.0354	0.033	%	106	80.0 - 120	Acceptable	
THCVA	1	0.0334	0.033	%	100	80.0 - 120	Acceptable	
CBN	1	0.0334	0.033	%	100	90.0 - 110	Acceptable	
exo-THC	1	0.0315	0.033	%	94.4	80.0 - 120	Acceptable	
d9THC	1	0.0327	0.033	%	98.0	90.0 - 110	Acceptable	
d8THC	1	0.0309	0.033	%	92.8	80.0 - 120	Acceptable	
CBL	1	0.0304	0.033	%	91.1	80.0 - 120	Acceptable	
CBC	1	0.0328	0.033	%	98.4	80.0 - 120	Acceptable	
THCA	1	0.0355	0.033	%	107	90.0 - 110	Acceptable	
CBCA	1	0.0334	0.033	%	100	80.0 - 120	Acceptable	
CBLA	1	0.0310	0.033	%	92.9	80.0 - 120	Acceptable	
CBT	1	0.0288	0.033	%	86.4	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	
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: 2205157**

Sample Duplicate Sample ID: **22-006890-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0031	0.0034	0.003	%	8.01	< 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	0.600	0.650	0.003	%	8.03	< 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	0.0036	0.0039	0.003	%	7.48	< 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	
CBC	0.0067	0.0072	0.003	%	7.00	< 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	0.0039	0.0043	0.003	%	9.65	< 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:** 2205215

Method Blank				Laboratory Control Sample					
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**		**Notes**
Abamectin	0.000	< 0.250		0.980	1.000	98.0	50.0	150	
Acephate	0.000	< 0.250		0.898	1.000	89.8	60.0	120	
Acequinocyl	0.000	< 1.000		3.041	4.000	76.0	40.0	160	
Acetamiprid	0.000	< 0.100		0.366	0.400	91.5	60.0	120	
Aldicarb	0.000	< 0.200		0.733	0.800	91.6	60.0	120	
Azoxystrobin	0.001	< 0.100		0.368	0.400	92.1	60.0	120	
Bifenazate	0.000	< 0.100		0.363	0.400	90.7	60.0	120	
Bifenthrin	0.000	< 0.100		0.321	0.400	80.1	50.0	150	
Boscalid	0.000	< 0.200		0.686	0.800	85.7	60.0	120	
Carbaryl	0.000	< 0.100		0.366	0.400	91.6	60.0	120	
Carbofuran	0.000	< 0.100		0.355	0.400	88.7	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.350	0.400	87.5	60.0	120	
Chlorfenapyr	0.000	< 0.500		2.131	2.000	106.6	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.398	0.400	99.5	60.0	120	
Clofentezine	0.000	< 0.100		0.159	0.400	***39.8***	60.0	120	Q6
Cyfluthrin	0.000	< 0.500		1.928	2.000	96.4	50.0	150	
Cypermethrin	0.000	< 0.500		1.849	2.000	92.5	50.0	150	
Daminozide	0.011	< 0.500		0.627	2.000	***31.4***	60.0	120	Q6
Diazinon	0.000	< 0.100		0.368	0.400	91.9	60.0	120	
Dichlorvos	0.000	< 0.500		2.066	2.000	103.3	60.0	120	
Dimethoate	0.000	< 0.100		0.378	0.400	94.6	60.0	120	
Ethoprophos	0.000	< 0.100		0.364	0.400	90.9	60.0	120	
Etofenprox	0.000	< 0.200		0.687	0.800	85.9	50.0	150	
Etoxazole	0.000	< 0.100		0.393	0.400	98.1	60.0	120	
Fenoxycarb	0.000	< 0.100		0.353	0.400	88.2	60.0	120	
Fenpyroximate	0.000	< 0.200		0.755	0.800	94.4	60.0	120	
Fipronil	0.000	< 0.200		0.663	0.800	82.9	60.0	120	
Flonicamid	0.000	< 0.250		0.898	1.000	89.8	60.0	120	
Fludioxonil	0.000	< 0.200		0.793	0.800	99.1	50.0	150	
Hexythiazox	0.000	< 0.250		0.978	1.000	97.8	60.0	120	
Imazalil	0.000	< 0.100		0.266	0.400	66.4	60.0	120	
Imidacloprid	0.000	< 0.200		0.730	0.800	91.2	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.733	0.800	91.6	60.0	120	
Malathion	0.000	< 0.100		0.357	0.400	89.3	60.0	120	
Metalaxyl	0.009	< 0.100		0.353	0.400	88.3	60.0	120	
Methiocarb	0.000	< 0.100		0.363	0.400	90.7	60.0	120	
Methomyl	0.000	< 0.200		0.745	0.800	93.1	60.0	120	
MGK-264	0.000	< 0.100		0.369	0.400	92.3	50.0	150	
Myclobutanil	0.000	< 0.100		0.375	0.400	93.7	60.0	120	
Naled	0.000	< 0.250		0.386	1.000	***38.6***	50.0	150	Q6
Oxamyl	0.000	< 0.500		1.728	2.000	86.4	60.0	120	
Paclobutrazole	0.000	< 0.200		0.711	0.800	88.9	60.0	120	
Parathion-Methyl	0.000	< 0.200		0.597	0.800	74.6	50.0	150	
Permethrin	0.000	< 0.100		0.370	0.400	92.5	50.0	150	
Phosmet	0.000	< 0.100		0.346	0.400	86.6	50.0	150	
Piperonyl butoxide	0.035	< 0.500		1.887	2.000	94.3	60.0	120	
Prallethrin	0.000	< 0.100		0.366	0.400	91.4	60.0	120	
Propiconazole	0.000	< 0.200		0.706	0.800	88.2	60.0	120	
Propoxur	0.003	< 0.100		0.372	0.400	93.0	60.0	120	
Pyrethrin (Summe)	0.016	< 0.100		0.418	0.413	101.3	60.0	120	
Pyridaben	0.000	< 0.100		0.376	0.400	94.1	50.0	150	
Spinosad	0.000	< 0.100		0.402	0.388	103.7	50.0	150	
Spiromesifen	0.000	< 0.100		0.394	0.400	98.5	60.0	120	
Spirotetramat	0.000	< 0.100		0.358	0.400	89.5	60.0	120	
Spiroxamine	0.000	< 0.200		0.707	0.800	88.4	60.0	120	
Tebuconazole	0.000	< 0.200		0.721	0.800	90.1	60.0	120	
Thiacloprid	0.000	< 0.100		0.358	0.400	89.5	60.0	120	
Thiamethoxam	0.000	< 0.100		0.331	0.400	82.8	60.0	120	
Trifloxystrobin	0.000	< 0.100		0.371	0.400	92.8	60.0	120	

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ORELAP#: OR100028
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Received: 06/14/22 10:30

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | **Units:** mg/Kg | **Batch ID:** 2205215

Matrix Spike/Matrix Spike Duplicate Recoveries | **Sample ID:** 22-006908-0001

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	1.166	1.248	1.000	6.8%	< 30	116.6%	124.8%	50 - 150	
Acephate	0.000	1.214	1.224	1.000	0.8%	< 30	121.4%	122.4%	50 - 150	
Acequinocyl	0.000	4.787	4.899	4.000	2.3%	< 30	119.7%	122.5%	50 - 150	
Acetamiprid	0.000	0.490	0.502	0.400	2.4%	< 30	122.5%	125.5%	50 - 150	
Aldicarb	0.000	0.903	0.934	0.800	3.4%	< 30	112.8%	116.7%	50 - 150	
Azoxystrobin	0.204	0.709	0.744	0.400	6.6%	< 30	126.4%	135.0%	50 - 150	
Bifenazate	0.000	0.463	0.476	0.400	2.8%	< 30	115.8%	119.1%	50 - 150	
Bifenthrin	0.028	0.377	0.391	0.400	3.7%	< 30	87.4%	90.7%	50 - 150	
Boscalid	0.000	0.985	0.989	0.800	0.4%	< 30	123.1%	123.6%	50 - 150	
Carbaryl	0.000	0.487	0.494	0.400	1.3%	< 30	121.9%	123.4%	50 - 150	
Carbofuran	0.000	0.527	0.547	0.400	3.8%	< 30	131.7%	136.8%	50 - 150	
Chlorantraniliprole	0.000	0.368	0.383	0.400	3.9%	< 30	92.0%	95.6%	50 - 150	
Chlorfenapyr	0.000	3.969	3.864	2.000	2.7%	< 30	198.4%	193.2%	50 - 150	Q
Chlorpyrifos	0.000	0.725	0.752	0.400	3.7%	< 30	181.2%	188.0%	50 - 150	Q
Clofentezine	0.000	0.380	0.366	0.400	3.7%	< 30	95.0%	91.6%	50 - 150	
Cyfluthrin	0.000	1.962	1.914	2.000	2.5%	< 30	98.1%	95.7%	30 - 150	
Cypermethrin	0.000	2.039	2.087	2.000	2.3%	< 30	102.0%	104.3%	50 - 150	
Daminozide	0.011	1.116	1.156	2.000	3.6%	< 30	55.2%	57.2%	30 - 150	
Diazinon	0.000	0.461	0.476	0.400	3.1%	< 30	115.3%	119.0%	50 - 150	
Dichlorvos	0.000	2.256	2.310	2.000	2.4%	< 30	112.8%	115.5%	50 - 150	
Dimethoate	0.000	0.503	0.514	0.400	2.2%	< 30	125.6%	128.4%	50 - 150	
Ethoprophos	0.000	0.462	0.477	0.400	3.1%	< 30	115.6%	119.2%	50 - 150	
Etofenprox	0.000	1.603	1.686	0.800	5.0%	< 30	200.3%	210.7%	50 - 150	Q
Etoxazole	0.000	0.772	0.800	0.400	3.5%	< 30	193.0%	199.9%	50 - 150	Q
Fenoxycarb	0.000	0.456	0.475	0.400	4.0%	< 30	114.1%	118.8%	50 - 150	
Fenpyroximate	0.000	0.987	1.033	0.800	4.5%	< 30	123.4%	129.1%	50 - 150	
Fipronil	0.000	1.083	1.113	0.800	2.7%	< 30	135.4%	139.1%	50 - 150	
Flonicamid	0.000	0.879	0.904	1.000	2.8%	< 30	87.9%	90.4%	50 - 150	
Fludioxonil	0.158	0.976	1.009	0.800	3.9%	< 30	102.3%	106.3%	50 - 150	
Hexythiazox	0.000	2.026	2.119	1.000	4.5%	< 30	202.6%	211.9%	50 - 150	Q
Imazalil	0.000	0.340	0.356	0.400	4.6%	< 30	84.9%	88.9%	50 - 150	
Imidacloprid	0.000	0.606	0.632	0.800	4.3%	< 30	75.7%	79.0%	50 - 150	
Kresoxim-methyl	0.000	0.989	1.041	0.800	5.1%	< 30	123.6%	130.1%	50 - 150	
Malathion	0.000	0.517	0.526	0.400	1.6%	< 30	129.3%	131.4%	50 - 150	
Metalaxyl	0.000	0.425	0.432	0.400	1.6%	< 30	106.3%	108.0%	50 - 150	
Methiocarb	0.000	0.425	0.436	0.400	2.7%	< 30	106.1%	109.0%	50 - 150	
Methomyl	0.000	0.716	0.829	0.800	14.6%	< 30	89.5%	103.6%	50 - 150	
MGK-264	0.000	0.406	0.414	0.400	2.0%	< 30	101.4%	103.5%	50 - 150	
Myclobutanil	0.000	0.442	0.467	0.400	5.7%	< 30	110.4%	116.8%	50 - 150	
Naled	0.000	1.139	1.165	1.000	2.3%	< 30	113.9%	116.5%	50 - 150	
Oxamyl	0.000	1.834	2.065	2.000	11.9%	< 30	91.7%	103.3%	50 - 150	
Paclobutrazole	0.000	0.924	0.932	0.800	0.9%	< 30	115.4%	116.5%	50 - 150	
Parathion-Methyl	0.000	1.230	1.201	0.800	2.4%	< 30	153.7%	150.1%	30 - 150	Q
Permethrin	0.000	0.525	0.533	0.400	1.6%	< 30	131.2%	133.3%	50 - 150	
Phosmet	0.000	0.472	0.485	0.400	2.8%	< 30	117.9%	121.3%	50 - 150	
Piperonyl butoxide	0.059	2.226	2.303	2.000	3.5%	< 30	108.4%	112.2%	50 - 150	
Prallethrin	0.000	0.352	0.360	0.400	2.4%	< 30	87.9%	90.1%	50 - 150	
Propiconazole	0.315	1.456	1.516	0.800	5.2%	< 30	142.6%	150.2%	50 - 150	Q
Propoxur	0.000	0.504	0.510	0.400	1.2%	< 30	125.9%	127.4%	50 - 150	
Pyrethrin (Summe)	0.000	0.594	0.618	0.413	4.0%	< 30	143.7%	149.6%	50 - 150	
Pyridaben	0.000	0.746	0.779	0.400	4.3%	< 30	186.4%	194.7%	50 - 150	Q
Spinosad	0.000	0.627	0.654	0.388	4.2%	< 30	161.7%	168.6%	50 - 150	Q
Spiromesifen	0.000	0.766	0.792	0.400	3.4%	< 30	191.5%	198.0%	50 - 150	Q
Spirotetramat	0.000	0.383	0.393	0.400	2.7%	< 30	95.8%	98.4%	50 - 150	
Spiroxamine	0.000	0.873	0.912	0.800	4.4%	< 30	109.1%	114.0%	50 - 150	
Tebuconazole	0.000	0.948	0.982	0.800	3.5%	< 30	118.5%	122.7%	50 - 150	
Thiacloprid	0.000	0.481	0.498	0.400	3.3%	< 30	120.3%	124.4%	50 - 150	
Thiamethoxam	0.000	0.330	0.362	0.400	9.2%	< 30	82.6%	90.6%	50 - 150	
Trifloxystrobin	0.010	0.645	0.664	0.400	3.0%	< 30	158.6%	163.5%	50 - 150	Q

Columbia LABORATORIES
A Tentamus Company

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

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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2205275

Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**
Propane	ND	<	200		497	572	µg/g	86.9	60	-	120	
Isobutane	ND	<	200		654	731	µg/g	89.5	60	-	120	
Butane	ND	<	200		610	731	µg/g	83.4	60	-	120	
2,2-Dimethylpropane	ND	<	200		750	936	µg/g	80.1	60	-	120	
Methanol	ND	<	200		1230	1650	µg/g	74.5	60	-	120	
Ethylene Oxide	ND	<	30		50.9	56.2	µg/g	90.6	60	-	120	
2-Methylbutane	ND	<	200		1240	1620	µg/g	76.5	60	-	120	
Pentane	ND	<	200		1240	1610	µg/g	77.0	60	-	120	
Ethanol	ND	<	200		1220	1620	µg/g	75.3	70	-	130	
Ethyl Ether	ND	<	200		1290	1600	µg/g	80.6	60	-	120	
2,2-Dimethylbutane	ND	<	30		134	167	µg/g	80.2	60	-	120	
Acetone	ND	<	200		1300	1620	µg/g	80.2	60	-	120	
2-Propanol	ND	<	200		1250	1610	µg/g	77.6	60	-	120	
Ethyl Formate	ND	<	500		1630	1620	µg/g	100.6	70	-	130	
Acetonitrile	ND	<	100		492	635	µg/g	77.5	60	-	120	
Methyl Acetate	ND	<	500		1700	1630	µg/g	104.3	70	-	130	
2,3-Dimethylbutane	ND	<	30		131	177	µg/g	74.0	60	-	120	
Dichloromethane	ND	<	60		441	498	µg/g	88.6	60	-	120	
2-Methylpentane	ND	<	30		136	166	µg/g	81.9	60	-	120	
MTBE	ND	<	500		1750	1600	µg/g	109.4	70	-	130	
3-Methylpentane	ND	<	30		138	175	µg/g	78.9	60	-	120	
Hexane	ND	<	30		140	174	µg/g	80.5	60	-	120	
1-Propanol	ND	<	500		1490	1620	µg/g	92.0	70	-	130	
Methylethylketone	ND	<	500		1610	1600	µg/g	100.6	70	-	130	
Ethyl acetate	ND	<	200		1230	1610	µg/g	76.4	60	-	120	
2-Butanol	ND	<	200		1260	1620	µg/g	77.8	60	-	120	
Tetrahydrofuran	ND	<	100		375	507	µg/g	74.0	60	-	120	
Cyclohexane	ND	<	200		1320	1610	µg/g	82.0	60	-	120	
2-methyl-1-propanol	ND	<	500		1670	1640	µg/g	101.8	70	-	130	
Benzene	ND	<	1		4.12	5.22	µg/g	78.9	60	-	120	
Isopropyl Acetate	ND	<	200		1250	1610	µg/g	77.6	60	-	120	
Heptane	ND	<	200		1230	1610	µg/g	76.4	60	-	120	
1-Butanol	ND	<	500		1850	1610	µg/g	114.9	70	-	130	
Propyl Acetate	ND	<	500		1740	1610	µg/g	108.1	70	-	130	
1,4-Dioxane	ND	<	100		434	508	µg/g	85.4	60	-	120	
2-Ethoxyethanol	ND	<	30		122	165	µg/g	73.9	60	-	120	
Methylisobutylketone	ND	<	500		1600	1610	µg/g	99.4	70	-	130	
3-Methyl-1-butanol	ND	<	500		1830	1600	µg/g	114.4	70	-	130	
Ethylene Glycol	ND	<	200		494	492	µg/g	100.4	60	-	120	
Toluene	ND	<	100		412	497	µg/g	82.9	60	-	120	
Isobutyl Acetate	ND	<	500		1730	1610	µg/g	107.5	70	-	130	
1-Pentanol	ND	<	500		1730	1600	µg/g	108.1	70	-	130	
Butyl Acetate	ND	<	500		1690	1610	µg/g	105.0	70	-	130	
Ethylbenzene	ND	<	200		829	980	µg/g	84.6	60	-	120	
m,p-Xylene	ND	<	200		832	985	µg/g	84.5	60	-	120	
o-Xylene	ND	<	200		821	965	µg/g	85.1	60	-	120	
Cumene	ND	<	30		146	168	µg/g	86.9	60	-	120	
Anisole	ND	<	500		1830	1600	µg/g	114.4	70	-	130	
DMSO	ND	<	500		1550	1610	µg/g	96.3	70	-	130	
1,2-dimethoxyethane	ND	<	50		177	165	µg/g	107.3	70	-	130	
Triethylamine	ND	<	500		1700	1620	µg/g	104.9	70	-	130	
N,N-dimethylformamide	ND	<	150		503	481	µg/g	104.6	70	-	130	
N,N-dimethylacetamide	ND	<	150		445	480	µg/g	92.7	70	-	130	
Pyridine	ND	<	50		198	171	µg/g	115.8	70	-	130	
1,2-Dichloroethane	ND	<	1		1.16	1	µg/g	116.0	70	-	130	
Chloroform	ND	<	1		1.14	1	µg/g	114.0	70	-	130	
Trichloroethylene	ND	<	1		1.2	1	µg/g	120.0	70	-	130	

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QC - Sample Duplicate **Sample ID: 22-006934-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methylethylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable	
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	

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

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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.