Lazarus Naturals

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU SG200.V2 **BATCH #** 23081401

PRODUCT NAME CBD Softgels 200mg **SERVING SIZE** 1 softgel (~0.726g)

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)	**202.67**	**mg/serving**	279.09	mg/g	27.91 %
Total THC (d9-THC, THCA)	**1.58**	**mg/serving**	2.18	mg/g	0.22 %
Cannabigerol (CBG)	**1.73**	**mg/serving**	2.39	mg/g	0.24 %
Cannabinol (CBN)	**1.94**	**mg/serving**	2.67	mg/g	0.27 %
Cannabichromene (CBC)	**2.52**	**mg/serving**	3.47	mg/g	0.35 %
Tetrahydrocannabinolic Acid (THCA)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
Delta-9-THC (d9-THC)	**1.58**	**mg/serving**	2.18	mg/g	0.22 %
Delta-8-THC (d8-THC)	**0.12**	**mg/serving**	0.16	mg/g	0.02 %

HEAVY METALS	PER SERVING		PER GRAM		REGULATORY ACTION LEVEL
Arsenic	**<LOQ**	**µg/serving**	<LOQ	µg/g	10 µg/day [1]
Cadmium	**<LOQ**	**µg/serving**	<LOQ	µg/g	4.1 µg/day [1]
Lead	**<LOQ**	**µg/serving**	<LOQ	µg/g	6 µg/day [1]
Mercury	**<LOQ**	**µg/serving**	<LOQ	µg/g	2 µg/day [1]

PESTICIDES	REGULATORY ACTION LEVEL
None of the other 59 pesticides tested found above limit of detection in the sample.	10 ppb [1]

RESIDUAL SOLVENTS	Results		REGULATORY ACTION LEVEL
Ethanol	1280	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

TERPENES	% OF SAMPLE	
Farnesene	<LOQ	%
ß-Caryophyllene	9.80	%
a-Bisabolol	3.03	%
Guaiol	0.37	%
Humulene	1.30	%
Caryophyllene Oxide	3.39	%

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: 23-007639/D002.R000
Report Date: 07/03/2023
ORELAP#: OR100028
Purchase Order:
Received: 06/27/23 15:54

Customer: Etz Hayim Holdings FORM-
Product identity: SG200.V2-FC16(B) .
Client/Metrc ID: 23-007639-0001
Laboratory ID:

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status
CBC per 1g	6.91		mg/1g	
CBD per 1g	511		mg/1g	
CBDV per 1g	4.62		mg/1g	
CBE per 1g	26.5		mg/1g	
CBG per 1g	4.66		mg/1g	
CBL per 1g	2.88		mg/1g	
CBN per 1g	5.01		mg/1g	
CBT per 1g	36.8		mg/1g	
Δ9-THC per 1g	1.06		mg/1g	

CBD-Total per Serving Size 511 mg/1g

THC-Total per Serving Size <LOQ

(Reported in milligrams per serving)

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Ethanol	1280		

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
(R)-(+)-Limonene	3.31	43.96%	a-pinene	2.76	36.65%
ß-Caryophyllene	0.738	9.80%	(-)-caryophyllene oxide	0.255	3.39%
a-Bisabolol	0.228	3.03%	Humulene	0.0982	1.30%
ß-Myrcene	0.0436	0.58%	Camphene	0.0375	0.50%
(-)-ß-Pinene	0.0292	0.39%	(-)-Guaiol	0.0282	0.37%
Total Terpenes	**7.53**	**100.00%**			

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.

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ORELAP#: OR100028
Purchase Order:
Received: 06/27/23 15:54

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

Product identity: FORM-SG200.V2-FC16(B)
Client/Metrc ID: .
Sample Date:
Laboratory ID: 23-007639-0001
Evidence of Cooling: No
Temp: 23.6
Relinquished by: client
Serving Size #1: 1 g

Sample Results

Potency per 1g **Method:** J AOAC 2015 V98-6 (mod)[b] **Units** mg/se **Batch:** 2308669 **Analyze:** 6/29/23 3:07:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	6.91		mg/1g	0.751	
CBC-A per 1g	< LOQ		mg/1g	0.751	
CBC-Total per 1g	6.91		mg/1g	1.41	
CBD per 1g	511		mg/1g	7.51	
CBD-A per 1g	< LOQ		mg/1g	0.751	
CBD-Total per 1g	511		mg/1g	8.17	
CBDV per 1g	4.62		mg/1g	0.751	
CBDV-A per 1g	< LOQ		mg/1g	0.751	
CBDV-Total per 1g	4.62		mg/1g	1.40	
CBE per 1g	26.5		mg/1g	0.751	
CBG per 1g	4.66		mg/1g	0.751	
CBG-A per 1g	< LOQ		mg/1g	0.751	
CBG-Total per 1g	4.66		mg/1g	1.40	
CBL per 1g	2.88		mg/1g	0.751	
CBL-A per 1g	< LOQ		mg/1g	0.751	
CBL-Total per 1g	2.88		mg/1g	1.41	
CBN per 1g	5.01		mg/1g	0.751	
CBT per 1g	36.8		mg/1g	0.751	
Δ8-THCV per 1g	< LOQ		mg/1g	0.751	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.751	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.751	
Δ10-THC-Total per 1g	< LOQ		mg/1g	1.50	
Δ8-THC per 1g	< LOQ		mg/1g	0.751	
Δ9-THC per 1g	1.06		mg/1g	0.751	
delta-9-THCP per 1g	< LOQ		mg/1g	0.751	
exo-THC per 1g	< LOQ		mg/1g	0.751	
THC-A per 1g	< LOQ		mg/1g	0.751	
THC-Total per 1g	< LOQ		mg/1g	1.41	
THCV per 1g	< LOQ		mg/1g	0.751	
THCV-A per 1g	< LOQ		mg/1g	0.751	

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ORELAP#: OR100028
Purchase Order:
Received: 06/27/23 15:54

Potency per 1g

Method: J AOAC 2015 V98-6 (mod)þ **Units** mg/se **Batch:** 2308669 **Analyze:** 6/29/23 3:07:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total per 1g	< LOQ		mg/1g	1.41	
Total Cannabinoids per 1g	599		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2308613	06/30/23	AOAC 991.14 (Petrifilm)þ		I
Total Coliforms	< LOQ		cfu/g	10	2308613	06/30/23	AOAC 991.14 (Petrifilm)þ		I
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2308614	06/30/23	AOAC 2014.05 (RAPID)þ		I
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2308614	06/30/23	AOAC 2014.05 (RAPID)þ		I

Solvents

Method: Residual Solvents by GC/MSþ **Units** µg/g **Batch** 2308701 **Analyze** 06/30/23 09:23 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	1280		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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ORELAP#: OR100028
Purchase Order:
Received: 06/27/23 15:54

Pesticides **Method:** AOAC 2007.01 & EN 15662 (mod)þ **Units** mg/kg **Batch** 2308638 **Analyze** 06/28/23 02:18 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		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							

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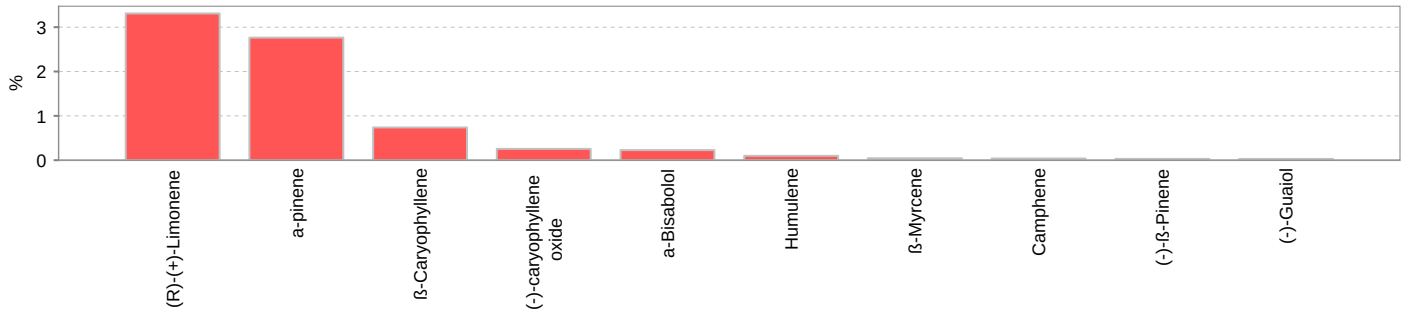
ORELAP#: OR100028
Purchase Order:
Received: 06/27/23 15:54

Terpenes

Method: J AOAC 2015 V98-6 **Units** % **Batch** 2308665 **Analyze** 06/28/23 03:00 PM

Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
(R)-(+)-Limonene	3.31	0.019	43.96%		a-pinene	2.76	0.019	36.65%	
ß-Caryophyllene	0.738	0.019	9.801%		(-)-caryophyllene oxide	0.255	0.019	3.386%	
a-Bisabolol	0.228	0.019	3.028%		Humulene	0.0982	0.019	1.3041%	
ß-Myrcene	0.0436	0.019	0.5790%		Camphene	0.0375	0.019	0.4980%	
(-)-ß-Pinene	0.0292	0.019	0.3878%		(-)-Guaiol	0.0282	0.019	0.3745%	
(±)-trans-Nerolidol	< LOQ	0.019	0.00%		farnesene	< LOQ	0.019	0.00%	
(+)-Cedrol	< LOQ	0.019	0.00%		(±)-fenchone	< LOQ	0.019	0.00%	
Linalool	< LOQ	0.019	0.00%		Geraniol	< LOQ	0.019	0.00%	
Sabinene hydrate	< LOQ	0.019	0.00%		(±)-Camphor	< LOQ	0.019	0.00%	
Sabinene	< LOQ	0.019	0.00%		(+)-fenchol	< LOQ	0.019	0.00%	
(-)-a-Terpineol	< LOQ	0.019	0.00%		trans-ß-Ocimene	< LOQ	0.012	0.00%	
gamma-Terpinene	< LOQ	0.019	0.00%		a-phellandrene	< LOQ	0.019	0.00%	
(+)-Borneol	< LOQ	0.019	0.00%		a-Terpinene	< LOQ	0.019	0.00%	
Isoborneol	< LOQ	0.019	0.00%		(+)-Pulegone	< LOQ	0.019	0.00%	
Geranyl acetate	< LOQ	0.019	0.00%		d-3-Carene	< LOQ	0.019	0.00%	
valencene	< LOQ	0.019	0.00%		(-)-Isopulegol	< LOQ	0.019	0.00%	
(±)-cis-Nerolidol	< LOQ	0.019	0.00%		a-cedrene	< LOQ	0.019	0.00%	
cis-ß-Ocimene	< LOQ	0.006	0.00%		Eucalyptol	< LOQ	0.019	0.00%	
Menthol	< LOQ	0.019	0.00%		nerol	< LOQ	0.019	0.00%	
p-Cymene	< LOQ	0.019	0.00%		Terpinolene	< LOQ	0.019	0.00%	
Total Terpenes	**7.53**								



Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Arsenic¥	< LOQ	0.200	mg/kg	0.0903	2308688	06/29/23	AOAC 2013.06 (mod.)þ	pass	
Cadmium¥	< LOQ	0.200	mg/kg	0.0903	2308688	06/29/23	AOAC 2013.06 (mod.)þ	pass	
Lead¥	< LOQ	0.500	mg/kg	0.0903	2308688	06/29/23	AOAC 2013.06 (mod.)þ	pass	
Mercury¥	< LOQ	0.100	mg/kg	0.0451	2308688	06/29/23	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

Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

Approved Signatory

Derrick Tanner
General Manager

Columbia LABORATORIES
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ORELAP#: OR100028
Purchase Order:
Received: 06/27/23 15:54

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:** 2308638

Method Blank				Laboratory Control Sample					
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**		**Notes**
Abamectin	0.000	< 0.250		0.836	1.000	83.6	50.0	150	
Acephate	0.038	< 0.200		0.699	0.800	87.4	60.0	120	
Acequinocyl	0.000	< 1.000		3.490	4.000	87.3	40.0	160	
Acetamiprid	0.000	< 0.100		0.359	0.400	89.7	60.0	120	
Aldicarb	0.000	< 0.200		0.730	0.800	91.2	60.0	120	
Azoxystrobin	0.019	< 0.100		0.381	0.400	95.3	60.0	120	
Bifenazate	0.000	< 0.100		0.384	0.400	96.0	60.0	120	
Bifenthrin	0.000	< 0.100		0.369	0.400	92.2	50.0	150	
Boscalid	0.000	< 0.200		0.770	0.800	96.2	60.0	120	
Carbaryl	0.000	< 0.100		0.387	0.400	96.7	60.0	120	
Carbofuran	0.000	< 0.100		0.356	0.400	88.9	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.379	0.400	94.8	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.396	2.000	69.8	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.363	0.400	90.8	60.0	120	
Clofentezine	0.000	< 0.100		0.365	0.400	91.2	60.0	120	
Cyfluthrin	0.000	< 0.500		1.849	2.000	92.5	50.0	150	
Cypermethrin	0.027	< 0.500		1.873	2.000	93.7	50.0	150	
Daminozide	0.000	< 0.500		1.869	2.000	93.4	60.0	120	
Diazinon	0.009	< 0.100		0.370	0.400	92.6	60.0	120	
Dichlorvos	0.000	< 0.500		1.873	2.000	93.7	60.0	120	
Dimethoate	0.000	< 0.100		0.401	0.400	100.3	60.0	120	
Ethoprophos	0.001	< 0.100		0.362	0.400	90.5	60.0	120	
Etofenprox	0.015	< 0.200		0.702	0.800	87.7	50.0	150	
Etoxazole	0.012	< 0.100		0.362	0.400	90.6	60.0	120	
Fenoxycarb	0.000	< 0.100		0.361	0.400	90.3	60.0	120	
Fenpyroximate	0.018	< 0.200		0.782	0.800	97.7	60.0	120	
Fipronil	0.000	< 0.200		0.688	0.800	86.0	60.0	120	
Flonicamid	0.000	< 0.250		0.998	1.000	99.8	60.0	120	
Fludioxonil	0.000	< 0.200		0.812	0.800	101.5	50.0	150	
Hexythiazox	0.015	< 0.250		0.889	1.000	88.9	60.0	120	
Imazalil	0.000	< 0.100		0.356	0.400	89.1	60.0	120	
Imidacloprid	0.014	< 0.200		0.709	0.800	88.6	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.691	0.800	86.4	60.0	120	
Malathion	0.006	< 0.100		0.374	0.400	93.5	60.0	120	
Metalaxyl	0.000	< 0.100		0.362	0.400	90.4	60.0	120	
Methiocarb	0.003	< 0.100		0.348	0.400	87.0	60.0	120	
Methomyl	0.000	< 0.200		0.882	0.800	110.3	60.0	120	
MGK-264	0.000	< 0.100		0.351	0.400	87.9	50.0	150	
Myclobutanil	0.000	< 0.100		0.358	0.400	89.4	60.0	120	
Naled	0.000	< 0.250		0.921	1.000	92.1	50.0	150	
Oxamyl	0.000	< 0.500		2.030	2.000	101.5	60.0	120	
Paclobutrazole	0.004	< 0.200		0.706	0.800	88.2	60.0	120	
Parathion-Methyl	0.000	< 0.100		0.403	0.400	100.7	50.0	150	
Permethrin	0.006	< 0.100		0.364	0.400	91.1	50.0	150	
Phosmet	0.000	< 0.100		0.350	0.400	87.6	50.0	150	
Piperonyl butoxide	0.015	< 0.500		1.816	2.000	90.8	60.0	120	
Prallethrin	0.013	< 0.100		0.351	0.400	87.8	60.0	120	
Propiconazole	0.000	< 0.200		0.720	0.800	90.0	60.0	120	
Propoxur	0.000	< 0.100		0.369	0.400	92.3	60.0	120	
Pyrethrin (Summe)	0.003	< 0.100		0.428	0.488	87.7	60.0	120	
Pyridaben	0.002	< 0.100		0.354	0.400	88.4	50.0	150	
Spinosad	0.000	< 0.100		0.361	0.388	93.0	50.0	150	
Spiromesifen	0.000	< 0.100		0.373	0.400	93.2	60.0	120	
Spirotetramat	0.000	< 0.100		0.378	0.400	94.5	60.0	120	
Spiroxamine	0.018	< 0.200		0.693	0.800	86.7	60.0	120	
Tebuconazole	0.016	< 0.200		0.709	0.800	88.6	60.0	120	
Thiacloprid	0.000	< 0.100		0.348	0.400	87.0	60.0	120	
Thiamethoxam	0.000	< 0.100		0.399	0.400	99.9	60.0	120	
Trifloxystrobin	0.003	< 0.100		0.382	0.400	95.5	60.0	120	

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 — **Units:** mg/Kg — **Batch ID:** 2308638

Matrix Spike/Matrix Spike Duplicate Recoveries — **Sample ID:** 23-007639-0001

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.777	0.808	1.000	4.0%	< 30	77.7%	80.8%	50 - 150	
Acephate	0.000	0.608	0.646	0.800	6.0%	< 30	76.0%	80.8%	50 - 150	
Acequinocyl	0.000	3.459	3.810	4.000	9.7%	< 30	86.5%	95.2%	50 - 150	
Acetamiprid	0.000	0.323	0.331	0.400	2.7%	< 30	80.7%	82.8%	50 - 150	
Aldicarb	0.000	0.698	0.770	0.800	9.8%	< 30	87.2%	96.2%	50 - 150	
Azoxystrobin	0.016	0.289	0.307	0.400	6.2%	< 30	68.2%	72.6%	50 - 150	
Bifenazate	0.003	0.287	0.331	0.400	14.6%	< 30	70.9%	82.0%	50 - 150	
Bifenthrin	0.006	0.331	0.342	0.400	3.2%	< 30	81.3%	83.9%	50 - 150	
Boscalid	0.019	0.571	0.566	0.800	1.0%	< 30	69.0%	68.3%	50 - 150	
Carbaryl	0.000	0.274	0.301	0.400	9.7%	< 30	68.4%	75.4%	50 - 150	
Carbofuran	0.007	0.285	0.293	0.400	2.8%	< 30	69.4%	71.4%	50 - 150	
Chlorantraniliprole	0.000	0.323	0.378	0.400	15.5%	< 30	80.8%	94.4%	50 - 150	
Chlorfenapyr	0.000	1.228	1.278	2.000	4.0%	< 30	61.4%	63.9%	50 - 150	
Chlorpyrifos	0.000	0.361	0.362	0.400	0.1%	< 30	90.3%	90.4%	50 - 150	
Clofentezine	0.000	0.244	0.276	0.400	12.6%	< 30	60.9%	69.1%	50 - 150	
Cyfluthrin	0.000	0.769	0.862	2.000	11.5%	< 30	38.4%	43.1%	30 - 150	
Cypermethrin	0.000	0.874	0.923	2.000	5.4%	< 30	43.7%	46.1%	50 - 150	Q
Daminozide	0.000	1.985	2.215	2.000	10.9%	< 30	99.3%	110.7%	30 - 150	
Diazinon	0.007	0.238	0.257	0.400	7.8%	< 30	57.8%	62.5%	50 - 150	
Dichlorvos	0.000	1.499	1.751	2.000	15.5%	< 30	75.0%	87.5%	50 - 150	
Dimethoate	0.000	0.365	0.383	0.400	4.8%	< 30	91.3%	95.8%	50 - 150	
Ethoprophos	0.003	0.239	0.266	0.400	10.8%	< 30	59.1%	65.9%	50 - 150	
Etofenprox	0.000	0.593	0.633	0.800	6.4%	< 30	74.2%	79.1%	50 - 150	
Etoxazole	0.010	0.347	0.384	0.400	10.4%	< 30	84.3%	93.5%	50 - 150	
Fenoxycarb	0.000	0.270	0.314	0.400	15.1%	< 30	67.5%	78.5%	50 - 150	
Fenpyroximate	0.000	0.290	0.307	0.800	5.8%	< 30	36.2%	38.4%	50 - 150	Q
Fipronil	0.000	0.366	0.442	0.800	18.8%	< 30	45.8%	55.2%	50 - 150	Q
Flonicamid	0.000	0.902	0.962	1.000	6.5%	< 30	90.2%	96.2%	50 - 150	
Fludioxonil	0.000	0.981	1.012	0.800	3.2%	< 30	122.6%	126.6%	50 - 150	
Hexythiazox	0.013	0.832	0.891	1.000	7.0%	< 30	81.9%	87.9%	50 - 150	
Imazalil	0.007	0.296	0.319	0.400	7.7%	< 30	72.1%	77.9%	50 - 150	
Imidacloprid	0.027	0.731	0.748	0.800	2.4%	< 30	88.0%	90.1%	50 - 150	
Kresoxim-methyl	0.000	0.443	0.489	0.800	9.8%	< 30	55.4%	61.1%	50 - 150	
Malathion	0.034	0.278	0.306	0.400	10.8%	< 30	61.0%	67.9%	50 - 150	
Metalaxyl	0.005	0.313	0.342	0.400	9.3%	< 30	76.8%	84.3%	50 - 150	
Methiocarb	0.000	0.264	0.300	0.400	12.8%	< 30	65.9%	74.9%	50 - 150	
Methomyl	0.000	0.851	0.898	0.800	5.3%	< 30	106.4%	112.2%	50 - 150	
MGK-264	0.000	0.116	0.151	0.400	25.8%	< 30	29.0%	37.6%	50 - 150	Q
Myclobutanil	0.000	0.215	0.271	0.400	22.9%	< 30	53.8%	67.8%	50 - 150	
Naled	0.000	0.611	0.685	1.000	11.5%	< 30	61.1%	68.5%	50 - 150	
Oxamyl	0.000	1.986	1.928	2.000	3.0%	< 30	99.3%	96.4%	50 - 150	
Paclobutrazole	0.006	0.495	0.562	0.800	12.8%	< 30	61.2%	69.5%	50 - 150	
Parathion-Methyl	0.000	0.186	0.171	0.400	8.0%	< 30	46.4%	42.8%	30 - 150	
Permethrin	0.000	0.292	0.316	0.400	8.0%	< 30	73.0%	79.1%	50 - 150	
Phosmet	0.000	0.260	0.287	0.400	9.9%	< 30	64.9%	71.6%	50 - 150	
Piperonyl butoxide	0.013	1.763	1.892	2.000	7.1%	< 30	87.5%	93.9%	50 - 150	
Prallethrin	0.034	0.281	0.334	0.400	19.4%	< 30	61.8%	75.0%	50 - 150	
Propiconazole	0.000	0.423	0.472	0.800	11.0%	< 30	52.9%	59.1%	50 - 150	
Propoxur	0.009	0.301	0.322	0.400	6.9%	< 30	73.0%	78.1%	50 - 150	
Pyrethrin (Summe)	0.000	0.672	0.811	0.488	18.7%	< 30	137.8%	166.2%	50 - 150	Q
Pyridaben	0.001	0.339	0.356	0.400	4.8%	< 30	84.5%	88.7%	50 - 150	
Spinosad	0.000	0.325	0.345	0.388	5.9%	< 30	83.8%	89.0%	50 - 150	
Spiromesifen	0.005	0.367	0.398	0.400	8.2%	< 30	90.6%	98.4%	50 - 150	
Spirotetramat	0.000	0.443	0.479	0.400	7.8%	< 30	110.7%	119.7%	50 - 150	
Spiroxamine	0.000	0.627	0.717	0.800	13.5%	< 30	78.3%	89.7%	50 - 150	
Tebuconazole	0.000	0.408	0.504	0.800	21.1%	< 30	50.9%	63.0%	50 - 150	
Thiacloprid	0.000	0.299	0.324	0.400	8.0%	< 30	74.7%	80.9%	50 - 150	
Thiamethoxam	0.000	0.403	0.417	0.400	3.2%	< 30	100.9%	104.2%	50 - 150	
Trifloxystrobin	0.003	0.351	0.355	0.400	1.2%	< 30	87.1%	88.2%	50 - 150	

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Terpenes Quality Control Results

Method Reference: EPA 5035 — Batch ID: 2308665

	Method Blank				Laboratory Control Sample					
Analyte	Result		LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	<	200		416	500	µg/g	83%	70 - 130	
Camphene	<LOQ	<	200		453	500	µg/g	91%	70 - 130	
Sabinene	<LOQ	<	200		399	500	µg/g	80%	70 - 130	
b-Pinene	<LOQ	<	200		392	500	µg/g	78%	70 - 130	
b-Myrcene	<LOQ	<	200		423	500	µg/g	85%	70 - 130	
a-phelllandrene	<LOQ	<	200		452	500	µg/g	90%	70 - 130	
d-3-Carene	<LOQ	<	200		458	500	µg/g	92%	70 - 130	
a-Terpinene	<LOQ	<	200		413	500	µg/g	83%	70 - 130	
p-Cymene	<LOQ	<	200		425	500	µg/g	85%	70 - 130	
D-Limonene	<LOQ	<	200		414	500	µg/g	83%	70 - 130	
Eucalyptol	<LOQ	<	200		424	500	µg/g	85%	70 - 130	
b-cis-Ocimene	<LOQ	<	67		138	167	µg/g	83%	70 - 130	
b-trans-Ocimene	<LOQ	<	133		292	333	µg/g	88%	70 - 130	
g-Terpinene	<LOQ	<	200		409	500	µg/g	82%	70 - 130	
Sabinene_Hydrate	<LOQ	<	200		420	500	µg/g	84%	70 - 130	
Terpinolene	<LOQ	<	200		401	500	µg/g	80%	70 - 130	
D-Fenchone	<LOQ	<	200		398	500	µg/g	80%	70 - 130	
Linalool	<LOQ	<	200		470	500	µg/g	94%	70 - 130	
Fenchol	<LOQ	<	200		444	500	µg/g	89%	70 - 130	
Camphor	<LOQ	<	200		431	500	µg/g	86%	70 - 130	
Isopulego	<LOQ	<	200		444	500	µg/g	89%	70 - 130	
Isoborneol	<LOQ	<	200		474	500	µg/g	95%	70 - 130	
Borneol	<LOQ	<	200		433	500	µg/g	87%	70 - 130	
DL-Menthol	<LOQ	<	200		429	500	µg/g	86%	70 - 130	
Terpineol	<LOQ	<	200		429	500	µg/g	86%	70 - 130	
Nerol	<LOQ	<	200		362	500	µg/g	72%	70 - 130	
Pulegone	<LOQ	<	200		436	500	µg/g	87%	70 - 130	
Geraniol	<LOQ	<	200		392	500	µg/g	78%	70 - 130	
Geranyl_Acetate	<LOQ	<	200		392	500	µg/g	78%	70 - 130	
a-Cedrene	<LOQ	<	200		398	500	µg/g	80%	70 - 130	
b-Caryophyllene	<LOQ	<	200		451	500	µg/g	90%	70 - 130	
a-Humulene	<LOQ	<	200		464	500	µg/g	93%	70 - 130	
Valencene	<LOQ	<	200		410	500	µg/g	82%	70 - 130	
cis-Nerolidol	<LOQ	<	200		472	500	µg/g	94%	70 - 130	
a-Farnesene	<LOQ	<	200		493	500	µg/g	99%	70 - 130	
trans-Nerolidol	<LOQ	<	200		429	500	µg/g	86%	70 - 130	
Caryophyllene_Oxide	<LOQ	<	200		452	500	µg/g	90%	70 - 130	
Guaiol	<LOQ	<	200		445	500	µg/g	89%	70 - 130	
Cedrol	<LOQ	<	200		467	500	µg/g	93%	70 - 130	
a-Bisabolol	<LOQ	<	200		464	500	µg/g	93%	70 - 130	

Definitions

LOQ	Limit of Quantitation
LCS	Laboratory Control Sample
% REC	Percent Recovery

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Terpenes Quality Control Results

Method Reference: EPA 5035 — Batch ID: 2308665

Sample/ Sample Duplicate — Sample ID: 23-007476-0002

Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	32600	32700	184	µg/g	0%	< 20	
Camphene	1200	1200	184	µg/g	0%	< 20	
Sabinene	3280	3300	184	µg/g	1%	< 20	
b-Pinene	197000	197000	184	µg/g	0%	< 20	
b-Myrcene	163000	164000	184	µg/g	1%	< 20	
a-phelllandrene	3130	3150	184	µg/g	1%	< 20	
d-3-Carene	2950	2970	184	µg/g	1%	< 20	
a-Terpinene	2390	2410	184	µg/g	1%	< 20	
p-Cymene	1160	1170	184	µg/g	1%	< 20	
D-Limonene	222000	224000	184	µg/g	1%	< 20	
Eucalyptol	<LOQ	<LOQ	184	µg/g	0%	< 20	
b-cis-Ocimene	2400	2380	61.4	µg/g	1%	< 20	
b-trans-Ocimene	30800	30400	123	µg/g	1%	< 20	
g-Terpinene	10400	10400	184	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	184	µg/g	0%	< 20	
Terpinolene	76200	76500	184	µg/g	0%	< 20	
D-Fenchone	271	267	184	µg/g	1%	< 20	
Linalool	24300	24300	184	µg/g	0%	< 20	
Fenchol	1390	1390	184	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	184	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	184	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Borneol	284	291	184	µg/g	2%	< 20	
DL-Menthol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Terpineol	1030	1020	184	µg/g	1%	< 20	
Nerol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	184	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	184	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	184	µg/g	0%	< 20	
b-Caryophyllene	57100	57400	184	µg/g	1%	< 20	
a-Humulene	22100	22200	184	µg/g	0%	< 20	
Valencene	289	288	184	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	184	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	184	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Caryophyllene_Oxide	1040	1040	184	µg/g	0%	< 20	
Guaiol	330	329	184	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	184	µg/g	0%	< 20	
a-Bisabolol	6780	6820	184	µg/g	1%	< 20	

Definitions

RPD — Relative Percent Difference

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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2308669**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0768	0.0729	%	105	80.0 - 120	Acceptable	
CBDV	2	0.0763	0.0727	%	105	80.0 - 120	Acceptable	
CBE	2	0.0835	0.0803	%	104	80.0 - 120	Acceptable	
CBDA	1	0.0788	0.0768	%	103	90.0 - 110	Acceptable	
CBGA	1	0.0780	0.0763	%	102	80.0 - 120	Acceptable	
CBG	1	0.0898	0.0877	%	102	80.0 - 120	Acceptable	
CBD	1	0.0894	0.0853	%	105	90.0 - 110	Acceptable	
THCV	2	0.0561	0.0546	%	103	80.0 - 120	Acceptable	
d8THCV	2	0.0655	0.0644	%	102	80.0 - 120	Acceptable	
THCVA	2	0.0768	0.0711	%	108	80.0 - 120	Acceptable	
CBN	1	0.0798	0.0808	%	98.7	80.0 - 120	Acceptable	
exo-THC	2	0.0656	0.0653	%	100	80.0 - 120	Acceptable	
d9THC	1	0.0845	0.0832	%	102	90.0 - 110	Acceptable	
d8THC	1	0.103	0.104	%	99.2	90.0 - 110	Acceptable	
9S-d10THC	1	0.0580	0.0589	%	98.6	80.0 - 120	Acceptable	
CBL	2	0.0727	0.0718	%	101	80.0 - 120	Acceptable	
9S-HHC	3	0.0718	0.0769	%	93.4	80.0 - 120	Acceptable	
9R-d10THC	1	0.0746	0.0759	%	98.3	80.0 - 120	Acceptable	
CBC	2	0.0678	0.0675	%	100	80.0 - 120	Acceptable	
9R-HHC	3	0.0677	0.0769	%	88.0	80.0 - 120	Acceptable	
THCA	1	0.0754	0.0763	%	98.8	90.0 - 110	Acceptable	
CBCA	2	0.0775	0.0737	%	105	80.0 - 120	Acceptable	
CBLA	2	0.0732	0.0698	%	105	80.0 - 120	Acceptable	
d9THCP	2	0.0735	0.0752	%	97.8	80.0 - 120	Acceptable	
d8THCO	3	0.0735	0.0769	%	95.6	80.0 - 120	Acceptable	
CBT	2	0.0698	0.0753	%	92.7	80.0 - 120	Acceptable	
d9THCO	3	0.0680	0.0769	%	88.4	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00690	%	< 0.00690	Acceptable	
CBDV	<LOQ	0.00690	%	< 0.00690	Acceptable	
CBE	<LOQ	0.00690	%	< 0.00690	Acceptable	
CBDA	<LOQ	0.00690	%	< 0.00690	Acceptable	
CBGA	<LOQ	0.00690	%	< 0.00690	Acceptable	
CBG	<LOQ	0.00690	%	< 0.00690	Acceptable	
CBD	<LOQ	0.00690	%	< 0.00690	Acceptable	
THCV	<LOQ	0.00690	%	< 0.00690	Acceptable	
d8THCV	<LOQ	0.00690	%	< 0.00690	Acceptable	
THCVA	<LOQ	0.00690	%	< 0.00690	Acceptable	
CBN	<LOQ	0.00690	%	< 0.00690	Acceptable	
exo-THC	<LOQ	0.00690	%	< 0.00690	Acceptable	
d9THC	<LOQ	0.00690	%	< 0.00690	Acceptable	
d8THC	<LOQ	0.00690	%	< 0.00690	Acceptable	
9S-d10THC	<LOQ	0.00690	%	< 0.00690	Acceptable	
CBL	<LOQ	0.00690	%	< 0.00690	Acceptable	
9S-HHC	<LOQ	0.00690	%	< 0.00690	Acceptable	
9R-d10THC	<LOQ	0.00690	%	< 0.00690	Acceptable	
CBC	<LOQ	0.00690	%	< 0.00690	Acceptable	
9R-HHC	<LOQ	0.00690	%	< 0.00690	Acceptable	
THCA	<LOQ	0.00690	%	< 0.00690	Acceptable	
CBCA	<LOQ	0.00690	%	< 0.00690	Acceptable	
CBLA	<LOQ	0.00690	%	< 0.00690	Acceptable	
d9THCP	<LOQ	0.00690	%	< 0.00690	Acceptable	
d8THCO	<LOQ	0.00690	%	< 0.00690	Acceptable	
CBT	<LOQ	0.00690	%	< 0.00690	Acceptable	
d9THCO	<LOQ	0.00690	%	< 0.00690	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

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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2308669**

Sample Duplicate Sample ID: **23-007479-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
CBN	0.287	0.283	0.0672	%	1.38	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
d8THC	1.27	1.27	0.0672	%	0.301	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
9S-HHC	29.2	29.3	0.0672	%	0.307	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
9R-HHC	55.7	56.0	0.0672	%	0.514	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.0672	%	NA	< 20	Acceptable	
CBT	0.128	0.123	0.0672	%	4.00	< 20	Acceptable	
d9THCO	<LOQ	<LOQ	0.0672	%	NA	< 20	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

Residual Solvents **Batch ID:** 2308701

Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**
Propane	ND	<	200		509	584	µg/g	87.2	60	-	120	
Isobutane	ND	<	200		704	767	µg/g	91.8	60	-	120	
Butane	ND	<	200		701	782	µg/g	89.6	60	-	120	
2,2-Dimethylpropane	ND	<	200		756	939	µg/g	80.5	60	-	120	
Methanol	ND	<	200		1520	1640	µg/g	92.7	60	-	120	
Ethylene Oxide	ND	<	30		50.9	57.1	µg/g	89.1	60	-	120	
2-Methylbutane	ND	<	200		1400	1600	µg/g	87.5	60	-	120	
Pentane	ND	<	200		1430	1620	µg/g	88.3	60	-	120	
Ethanol	ND	<	200		1560	1610	µg/g	96.9	70	-	130	
Ethyl Ether	ND	<	200		1450	1610	µg/g	90.1	60	-	120	
2,2-Dimethylbutane	ND	<	30		152	168	µg/g	90.5	60	-	120	
Acetone	ND	<	200		1480	1620	µg/g	91.4	60	-	120	
2-Propanol	ND	<	200		1620	1600	µg/g	101.3	60	-	120	
Ethyl Formate	ND	<	500		1370	1600	µg/g	85.6	70	-	130	
Acetonitrile	ND	<	100		436	484	µg/g	90.1	60	-	120	
Methyl Acetate	ND	<	500		1470	1610	µg/g	91.3	70	-	130	
2,3-Dimethylbutane	ND	<	30		140	162	µg/g	86.4	60	-	120	
Dichloromethane	ND	<	60		444	483	µg/g	91.9	60	-	120	
2-Methylpentane	ND	<	30		162	174	µg/g	93.1	60	-	120	
MTBE	ND	<	500		1490	1610	µg/g	92.5	70	-	130	
3-Methylpentane	ND	<	30		160	168	µg/g	95.2	60	-	120	
Hexane	ND	<	30		151	168	µg/g	89.9	60	-	120	
1-Propanol	ND	<	500		1500	1600	µg/g	93.8	70	-	130	
Methylethylketone	ND	<	500		1480	1620	µg/g	91.4	70	-	130	
Ethyl acetate	ND	<	200		1520	1600	µg/g	95.0	60	-	120	
2-Butanol	ND	<	200		1650	1600	µg/g	103.1	60	-	120	
Tetrahydrofuran	ND	<	100		467	514	µg/g	90.9	60	-	120	
Cyclohexane	ND	<	200		1500	1600	µg/g	93.8	60	-	120	
2-methyl-1-propanol	ND	<	500		1470	1610	µg/g	91.3	70	-	130	
Benzene	ND	<	1		3.93	5.12	µg/g	76.8	60	-	120	
Isopropyl Acetate	ND	<	200		1530	1620	µg/g	94.4	60	-	120	
Heptane	ND	<	200		1490	1610	µg/g	92.5	60	-	120	
1-Butanol	ND	<	500		1510	1600	µg/g	94.4	70	-	130	
Propyl Acetate	ND	<	500		1450	1600	µg/g	90.6	70	-	130	
1,4-Dioxane	ND	<	100		466	493	µg/g	94.5	60	-	120	
2-Ethoxyethanol	ND	<	30		175	163	µg/g	107.4	60	-	120	
Methylisobutylketone	ND	<	500		1450	1600	µg/g	90.6	70	-	130	
3-Methyl-1-butanol	ND	<	500		1530	1610	µg/g	95.0	70	-	130	
Ethylene Glycol	ND	<	200		288	483	µg/g	59.6	60	-	120	
Toluene	ND	<	100		454	493	µg/g	92.1	60	-	120	
Isobutyl Acetate	ND	<	500		1430	1600	µg/g	89.4	70	-	130	
1-Pentanol	ND	<	500		1570	1600	µg/g	98.1	70	-	130	
Butyl Acetate	ND	<	500		1420	1600	µg/g	88.8	70	-	130	
Ethylbenzene	ND	<	200		901	969	µg/g	93.0	60	-	120	
m,p-Xylene	ND	<	200		892	968	µg/g	92.1	60	-	120	
o-Xylene	ND	<	200		908	976	µg/g	93.0	60	-	120	
Cumene	ND	<	30		148	162	µg/g	91.4	60	-	120	
Anisole	ND	<	500		1390	1610	µg/g	86.3	70	-	130	
DMSO	ND	<	500		1080	1610	µg/g	67.1	70	-	130	Q6
1,2-dimethoxyethane	ND	<	50		149	164	µg/g	90.9	70	-	130	
Triethylamine	ND	<	500		1280	1600	µg/g	80.0	70	-	130	
N,N-dimethylformamide	ND	<	150		440	484	µg/g	90.9	70	-	130	
N,N-dimethylacetamide	ND	<	150		413	489	µg/g	84.5	70	-	130	
Pyridine	ND	<	50		123	172	µg/g	71.5	70	-	130	
Sulfolane	ND	<	50		108	163	µg/g	66.3	70	-	130	Q6
1,2-Dichloroethane	ND	<	1		0.959	1	µg/g	95.9	70	-	130	
Chloroform	ND	<	1		1.03	1	µg/g	103.0	70	-	130	
Trichloroethylene	ND	<	1		1.21	1	µg/g	121.0	70	-	130	
1,1-Dichloroethane	ND	<	1		0.994	1	µg/g	99.4	70	-	130	

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QC - Sample Duplicate **Sample ID: 23-007062-0002**

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

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

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.