



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

**Report Number:** 23-005010/D002.R000  
**Report Date:** 05/03/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/25/23 12:45

**Customer:** USA Hemp  
**Product identity:** 1500mg Complete TC15FSCO1202  
**Project Number:** FSL1202  
**Client/Metric ID:** Container Size: 30grams  
**Laboratory ID:** 23-005010-0001

### Summary

#### Potency:

Analyte per 30g	Result	Limits	Units	Status	
CBC per 30g	42.0		mg/30g		CBD-Total per Serving Size 756 mg/30g
CBD per 30g	756		mg/30g		
CBDV per 30g	4.11		mg/30g		THC-Total per Serving Size <LOQ
CBE per 30g	35.1		mg/30g		
CBG per 30g	10.9		mg/30g		CBD-Total per Serving Size 25.2 mg/1g
CBL per 30g	4.44		mg/30g		
CBN per 30g	10.9		mg/30g		THC-Total per Serving Size <LOQ
CBT per 30g	13.6		mg/30g		
Δ8-THCV per 30g	5.85		mg/30g		(Reported in milligrams per serving)
Δ8-THC per 30g	816		mg/30g		
Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	1.40		mg/1g		
CBD per 1g	25.2		mg/1g		
CBDV per 1g	0.137		mg/1g		
CBE per 1g	1.17		mg/1g		
CBG per 1g	0.364		mg/1g		
CBL per 1g	0.148		mg/1g		
CBN per 1g	0.364		mg/1g		
CBT per 1g	0.454		mg/1g		
Δ8-THCV per 1g	0.195		mg/1g		
Δ8-THC per 1g	27.2		mg/1g		

#### Residual Solvents:

All analytes passing and less than LOQ.

#### Pesticides:

All analytes passing and less than LOQ.

#### Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
a-Bisabolol	0.0205	100.00%	Total Terpenes	0.0205	100.00%

#### Metals:

Less than LOQ for all analytes.



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**Customer:** USA Hemp  
**Product identity:** 1500mg Complete TC15FSCO1202  
**Project Number:** FSL1202  
**Client/Metric ID:** Container Size: 30grams  
**Sample Date:**  
**Laboratory ID:** 23-005010-0001  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** USPS  
**Serving Size #1:** 30 g  
**Serving Size #2:** 1 g

### Sample Results

Potency per 30g					
Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>		Units mg/se		Batch: 2306791	
				Analyze: 4/26/23 10:42:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 30g	42.0		mg/30g	0.919	
CBC-A per 30g	< LOQ		mg/30g	0.919	
CBC-Total per 30g	42.0		mg/30g	1.73	
CBD per 30g	756		mg/30g	9.19	
CBD-A per 30g	< LOQ		mg/30g	0.919	
CBD-Total per 30g	756		mg/30g	10.0	
CBDV per 30g	4.11		mg/30g	0.919	
CBDV-A per 30g	< LOQ		mg/30g	0.919	
CBDV-Total per 30g	4.11		mg/30g	1.72	
CBE per 30g	35.1		mg/30g	0.919	
CBG per 30g	10.9		mg/30g	0.919	
CBG-A per 30g	< LOQ		mg/30g	0.919	
CBG-Total per 30g	10.9		mg/30g	1.72	
CBL per 30g	4.44		mg/30g	0.919	
CBL-A per 30g	< LOQ		mg/30g	0.919	
CBL-Total per 30g	4.44		mg/30g	1.73	
CBN per 30g	10.9		mg/30g	0.919	
CBT per 30g	13.6		mg/30g	0.919	
Δ8-THCV per 30g	5.85		mg/30g	0.919	
Δ10-THC-9R per 30g	< LOQ		mg/30g	0.919	
Δ10-THC-9S per 30g	< LOQ		mg/30g	0.919	
Δ10-THC-Total per 30g	< LOQ		mg/30g	1.84	
Δ8-THC per 30g	816		mg/30g	9.19	
Δ9-THC per 30g	< LOQ		mg/30g	0.919	
exo-THC per 30g	< LOQ		mg/30g	0.919	
THC-A per 30g	< LOQ		mg/30g	0.919	
THC-Total per 30g	< LOQ		mg/30g	1.73	
THCV per 30g	< LOQ		mg/30g	0.919	
THCV-A per 30g	< LOQ		mg/30g	0.919	
THCV-Total per 30g	< LOQ		mg/30g	1.73	



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Potency per 30g      **Method:** J AOAC 2015 V98-6 (mod)<sup>b</sup>      **Units mg/se** **Batch:** 2306791      **Analyze:** 4/26/23 10:42:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 30g	1700		mg/30g		

Potency per 1g      **Method:** J AOAC 2015 V98-6 (mod)<sup>b</sup>      **Units mg/se** **Batch:** 2306791      **Analyze:** 4/26/23 10:42:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	1.40		mg/1g	0.0306	
CBC-A per 1g	< LOQ		mg/1g	0.0306	
CBC-Total per 1g	1.40		mg/1g	0.0575	
CBD per 1g	25.2		mg/1g	0.306	
CBD-A per 1g	< LOQ		mg/1g	0.0306	
CBD-Total per 1g	25.2		mg/1g	0.333	
CBDV per 1g	0.137		mg/1g	0.0306	
CBDV-A per 1g	< LOQ		mg/1g	0.0306	
CBDV-Total per 1g	0.137		mg/1g	0.0572	
CBE per 1g	1.17		mg/1g	0.0306	
CBG per 1g	0.364		mg/1g	0.0306	
CBG-A per 1g	< LOQ		mg/1g	0.0306	
CBG-Total per 1g	0.364		mg/1g	0.0572	
CBL per 1g	0.148		mg/1g	0.0306	
CBL-A per 1g	< LOQ		mg/1g	0.0306	
CBL-Total per 1g	0.148		mg/1g	0.0575	
CBN per 1g	0.364		mg/1g	0.0306	
CBT per 1g	0.454		mg/1g	0.0306	
Δ8-THCV per 1g	0.195		mg/1g	0.0306	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0306	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0306	
Δ8-THC per 1g	27.2		mg/1g	0.306	
Δ9-THC per 1g	< LOQ		mg/1g	0.0306	
exo-THC per 1g	< LOQ		mg/1g	0.0306	
THC-A per 1g	< LOQ		mg/1g	0.0306	
THC-Total per 1g	< LOQ		mg/1g	0.0575	
THCV per 1g	< LOQ		mg/1g	0.0306	
THCV-A per 1g	< LOQ		mg/1g	0.0306	
THCV-Total per 1g	< LOQ		mg/1g	0.0575	
Total Cannabinoids per 1g	56.6		mg/1g		



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Solvents											Method: Residual Solvents by GC/MS <sup>b</sup>					Units µg/g	Batch 2306903	Analyze 05/02/23 09:50 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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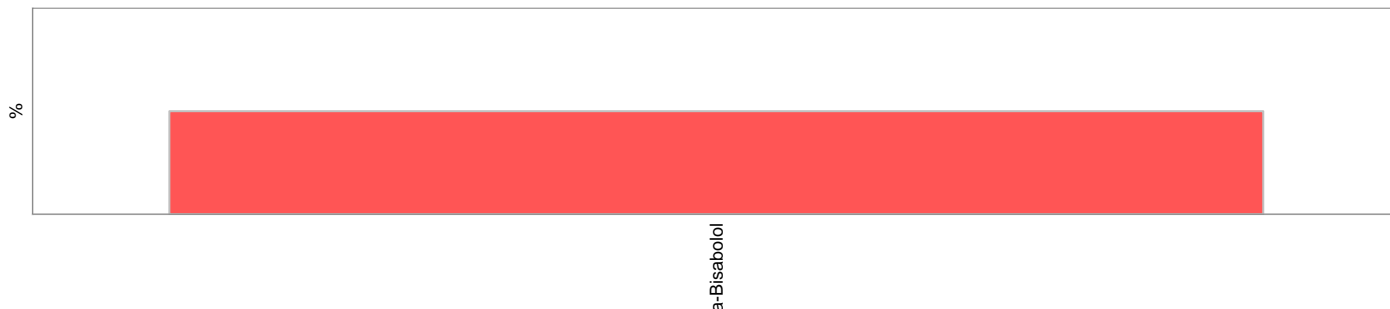
Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod) <sup>b</sup>											
Units mg/kg Batch 2306806 Analyze 04/28/23 06:52 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin <sup>‡</sup>	< LOQ	0.50	0.250	pass		Acephate <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Acequinocyl <sup>‡</sup>	< LOQ	2.0	1.00	pass		Acetamiprid <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Aldicarb <sup>‡</sup>	< LOQ	0.40	0.200	pass		Azoxystrobin <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Bifentazate <sup>‡</sup>	< LOQ	0.20	0.100	pass		Bifenthrin <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Boscalid <sup>‡</sup>	< LOQ	0.40	0.200	pass		Carbaryl <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Carbofuran <sup>‡</sup>	< LOQ	0.20	0.100	pass		Chlorantraniliprole <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Chlorfenapyr <sup>‡</sup>	< LOQ	1.0	0.500	pass		Chlorpyrifos <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Clofentezine <sup>‡</sup>	< LOQ	0.20	0.100	pass		Cyfluthrin <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Cypermethrin <sup>‡</sup>	< LOQ	1.0	0.500	pass		Daminozide <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Diazinon <sup>‡</sup>	< LOQ	0.20	0.100	pass		Dichlorvos <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Dimethoate <sup>‡</sup>	< LOQ	0.20	0.100	pass		Ethoprophos <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Etofenprox <sup>‡</sup>	< LOQ	0.40	0.200	pass		Etoazole <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Fenoxycarb <sup>‡</sup>	< LOQ	0.20	0.100	pass		Fenpyroximate <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Fipronil <sup>‡</sup>	< LOQ	0.40	0.200	pass		Flonicamid <sup>‡</sup>	< LOQ	1.0	0.400	pass	
Fludioxonil <sup>‡</sup>	< LOQ	0.40	0.200	pass		Hexythiazox <sup>‡</sup>	< LOQ	1.0	0.400	pass	
Imazalil <sup>‡</sup>	< LOQ	0.20	0.100	pass		Imidacloprid <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Kresoxim-methyl <sup>‡</sup>	< LOQ	0.40	0.200	pass		Malathion <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Metalaxyl <sup>‡</sup>	< LOQ	0.20	0.100	pass		Methiocarb <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Methomyl <sup>‡</sup>	< LOQ	0.40	0.200	pass		MGK-264 <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Myclobutanil <sup>‡</sup>	< LOQ	0.20	0.100	pass		Naled <sup>‡</sup>	< LOQ	0.50	0.250	pass	
Oxamyl <sup>‡</sup>	< LOQ	1.0	0.500	pass		Paclotubrazole <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Parathion-Methyl <sup>‡</sup>	< LOQ	0.20	0.100	pass		Permethrin <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Phosmet <sup>‡</sup>	< LOQ	0.20	0.100	pass		Piperonyl butoxide <sup>‡</sup>	< LOQ	2.0	1.00	pass	
Prallethrin <sup>‡</sup>	< LOQ	0.20	0.100	pass		Propiconazole <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Propoxur <sup>‡</sup>	< LOQ	0.20	0.100	pass		Pyrethrin I (total) <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Pyridaben <sup>‡</sup>	< LOQ	0.20	0.100	pass		Spinosad <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Spiromesifen <sup>‡</sup>	< LOQ	0.20	0.100	pass		Spirotetramat <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Spiroxamine <sup>‡</sup>	< LOQ	0.40	0.200	pass		Tebuconazole <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Thiacloprid <sup>‡</sup>	< LOQ	0.20	0.100	pass		Thiamethoxam <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Trifloxystrobin <sup>‡</sup>	< LOQ	0.20	0.100	pass							



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Terpenes				Method: J AOAC 2015 V98-6	Units %	Batch 2306784	Analyze 04/26/23 10:19 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
a-Bisabolol	0.0205	0.018	100.0000%		Geranyl acetate	< LOQ	0.018	0.00%	
a-cedrene	< LOQ	0.018	0.00%		β-Caryophyllene	< LOQ	0.018	0.00%	
Humulene	< LOQ	0.018	0.00%		(-)-caryophyllene oxide	< LOQ	0.018	0.00%	
(-)-Guaiol	< LOQ	0.018	0.00%		(±)-trans-Nerolidol	< LOQ	0.018	0.00%	
trans-β-Ocimene	< LOQ	0.012	0.00%		valencene	< LOQ	0.018	0.00%	
(+)-Pulegone	< LOQ	0.018	0.00%		cis-β-Ocimene	< LOQ	0.006	0.00%	
(+)-Cedrol	< LOQ	0.018	0.00%		(-)-a-Terpineol	< LOQ	0.018	0.00%	
(-)-Isopulegol	< LOQ	0.018	0.00%		(-)-β-Pinene	< LOQ	0.018	0.00%	
(+)-Borneol	< LOQ	0.018	0.00%		(+)-fenchol	< LOQ	0.018	0.00%	
(±)-Camphor	< LOQ	0.018	0.00%		(±)-cis-Nerolidol	< LOQ	0.018	0.00%	
(±)-fenchone	< LOQ	0.018	0.00%		(R)-(+)-Limonene	< LOQ	0.018	0.00%	
a-phellandrene	< LOQ	0.018	0.00%		a-pinene	< LOQ	0.018	0.00%	
a-Terpinene	< LOQ	0.018	0.00%		Camphene	< LOQ	0.018	0.00%	
d-3-Carene	< LOQ	0.018	0.00%		Eucalyptol	< LOQ	0.018	0.00%	
farnesene	< LOQ	0.018	0.00%		gamma-Terpinene	< LOQ	0.018	0.00%	
Geraniol	< LOQ	0.018	0.00%		Isoborneol	< LOQ	0.018	0.00%	
Linalool	< LOQ	0.018	0.00%		Menthol	< LOQ	0.018	0.00%	
nerol	< LOQ	0.018	0.00%		p-Cymene	< LOQ	0.018	0.00%	
Sabinene	< LOQ	0.018	0.00%		Sabinene hydrate	< LOQ	0.018	0.00%	
β-Myrcene	< LOQ	0.018	0.00%		Terpinolene	< LOQ	0.018	0.00%	
<b>Total Terpenes</b>	<b>0.0205</b>								



Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic <sup>‡</sup>	< LOQ	0.200	mg/kg	0.0923	2306795	04/27/23 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Cadmium <sup>‡</sup>	< LOQ	0.200	mg/kg	0.0923	2306795	04/27/23 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Lead <sup>‡</sup>	< LOQ	0.500	mg/kg	0.0923	2306795	04/27/23 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Mercury <sup>‡</sup>	< LOQ	0.100	mg/kg	0.0461	2306795	04/27/23 AOAC 2013.06 (mod.) <sup>p</sup>	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.

<sup>p</sup> = ISO/IEC 17025:2017 accredited method.

<sup>¥</sup> = TNI accredited analyte.

### Units of Measure

g = g

µg/g = Microgram per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/30g = Milligram per 30g

mg/1g = Milligram per 1g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager





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Revision: 1 Document ID: 7086  
 Legacy ID: CFL-E57Worksheet Validated 11/04/2020

Terpenes Quality Control Results

Method Reference: EPA5035				Batch ID: 2306784					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS% Rec	Limits	Notes
a-pinene	<LOQ	< 200		475	500	µg/g	95%	70 - 130	
Camphene	<LOQ	< 200		482	500	µg/g	96%	70 - 130	
Sabinene	<LOQ	< 200		465	500	µg/g	93%	70 - 130	
b-Pinene	<LOQ	< 200		455	500	µg/g	91%	70 - 130	
b-Myrcene	<LOQ	< 200		453	500	µg/g	91%	70 - 130	
a-phellandrene	<LOQ	< 200		489	500	µg/g	98%	70 - 130	
d-3-Carene	<LOQ	< 200		475	500	µg/g	95%	70 - 130	
a-Terpinene	<LOQ	< 200		464	500	µg/g	93%	70 - 130	
p-Cymene	<LOQ	< 200		468	500	µg/g	94%	70 - 130	
D-Limonene	<LOQ	< 200		475	500	µg/g	95%	70 - 130	
Eucalyptol	<LOQ	< 200		467	500	µg/g	93%	70 - 130	
b-cis-Cimene	<LOQ	< 67		151	167	µg/g	91%	70 - 130	
b-trans-Cimene	<LOQ	< 133		325	333	µg/g	97%	70 - 130	
g-Terpinene	<LOQ	< 200		450	500	µg/g	90%	70 - 130	
Sabinene Hydrate	<LOQ	< 200		481	500	µg/g	96%	70 - 130	
Terpinolene	<LOQ	< 200		471	500	µg/g	94%	70 - 130	
D-Fenchone	<LOQ	< 200		464	500	µg/g	93%	70 - 130	
Linalool	<LOQ	< 200		498	500	µg/g	100%	70 - 130	
Fenchol	<LOQ	< 200		478	500	µg/g	96%	70 - 130	
Camphor	<LOQ	< 200		472	500	µg/g	94%	70 - 130	
Isopulego	<LOQ	< 200		481	500	µg/g	96%	70 - 130	
Isoborneol	<LOQ	< 200		485	500	µg/g	97%	70 - 130	
Borneol	<LOQ	< 200		489	500	µg/g	98%	70 - 130	
DL-Menthol	<LOQ	< 200		473	500	µg/g	95%	70 - 130	
Terpineol	<LOQ	< 200		464	500	µg/g	93%	70 - 130	
Nerd	<LOQ	< 200		436	500	µg/g	87%	70 - 130	
Pulegone	<LOQ	< 200		480	500	µg/g	96%	70 - 130	
Geraniol	<LOQ	< 200		466	500	µg/g	93%	70 - 130	
Geranyl_Acdate	<LOQ	< 200		472	500	µg/g	94%	70 - 130	
a-Cedrene	<LOQ	< 200		472	500	µg/g	94%	70 - 130	
b-Caryophyllene	<LOQ	< 200		474	500	µg/g	95%	70 - 130	
a-Humulene	<LOQ	< 200		477	500	µg/g	95%	70 - 130	
Valene	<LOQ	< 200		439	500	µg/g	88%	70 - 130	
cis-Nerolidol	<LOQ	< 200		492	500	µg/g	98%	70 - 130	
a-Farnesene	<LOQ	< 200		509	500	µg/g	102%	70 - 130	
trans-Nerolidol	<LOQ	< 200		489	500	µg/g	98%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		488	500	µg/g	98%	70 - 130	
Guaiol	<LOQ	< 200		480	500	µg/g	96%	70 - 130	
Cedrol	<LOQ	< 200		489	500	µg/g	98%	70 - 130	
a-Bisabolol	<LOQ	< 200		488	500	µg/g	98%	70 - 130	

Definitions

LOQ	Limit of Quantitation
LCS	Laboratory Control Sample
% RE:	Percent Recovery



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

**Report Number:** 23-005010/D002.R000  
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Revision: 1 Document ID: 7086  
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Terpenes Quality Control Results

Method Reference: EPA5035		Batch ID: 2306784					
Sample/ Sample Duplicate		Sample ID: 23-004881-0006					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	187	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	187	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	187	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	187	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	187	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	187	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	187	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	187	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	187	µg/g	0%	< 20	
D-Limonene	1370	1370	187	µg/g	0%	< 20	
Eucalyptol	317	342	187	µg/g	8%	< 20	
b-cis-Cimene	<LOQ	<LOQ	62.4	µg/g	0%	< 20	
b-trans-Cimene	<LOQ	<LOQ	125	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	187	µg/g	0%	< 20	
Sabinene Hydrate	<LOQ	<LOQ	187	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	187	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	187	µg/g	0%	< 20	
Linalool	<LOQ	<LOQ	187	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	187	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	187	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	187	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	187	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	187	µg/g	0%	< 20	
DL-Menthhol	1750	1760	187	µg/g	1%	< 20	
Terpineol	<LOQ	<LOQ	187	µg/g	0%	< 20	
Nerd	<LOQ	<LOQ	187	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	187	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	187	µg/g	0%	< 20	
Geranyl Acetate	<LOQ	<LOQ	187	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	187	µg/g	0%	< 20	
b-Caryophyllene	<LOQ	<LOQ	187	µg/g	0%	< 20	
a-Humulene	<LOQ	<LOQ	187	µg/g	0%	< 20	
Valnene	<LOQ	<LOQ	187	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	187	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	187	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	187	µg/g	0%	< 20	
Caryophyllene Oxide	<LOQ	<LOQ	187	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	187	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	187	µg/g	0%	< 20	
a-Bisabolol	<LOQ	<LOQ	187	µg/g	0%	< 20	

Definitions

RPD Relative Percent Difference



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Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2306791

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDA	2	0.0304	0.030	%	99.7	80.0 - 120	Acceptable	
CBDV	2	0.0303	0.030	%	103	80.0 - 120	Acceptable	
CBE	2	0.0334	0.034	%	98.6	80.0 - 120	Acceptable	
CBDA	1	0.0302	0.031	%	97.7	90.0 - 110	Acceptable	
CBSA	1	0.0257	0.026	%	99.8	80.0 - 120	Acceptable	
CBS	1	0.0314	0.031	%	101	80.0 - 120	Acceptable	
CB	1	0.0277	0.027	%	101	90.0 - 110	Acceptable	
THCV	2	0.0222	0.023	%	98.1	80.0 - 120	Acceptable	
δ8THCV	2	0.0271	0.027	%	102	80.0 - 120	Acceptable	
THCVA	2	0.0311	0.031	%	99.4	80.0 - 120	Acceptable	
CBN	1	0.0276	0.027	%	102	80.0 - 120	Acceptable	
exo-THC	2	0.0307	0.031	%	99.9	80.0 - 120	Acceptable	
δ9THC	1	0.0311	0.031	%	99.9	90.0 - 110	Acceptable	
δ8THC	1	0.0322	0.031	%	103	90.0 - 110	Acceptable	
9Sδ10THC	1	0.0313	0.031	%	99.6	80.0 - 120	Acceptable	
CB	2	0.0329	0.032	%	102	80.0 - 120	Acceptable	
9Rδ10THC	1	0.0304	0.032	%	95.1	80.0 - 120	Acceptable	
CB	2	0.0302	0.030	%	100	80.0 - 120	Acceptable	
THCA	1	0.0358	0.036	%	99.6	90.0 - 110	Acceptable	
CBSA	2	0.0315	0.032	%	97.1	80.0 - 120	Acceptable	
CBLA	2	0.0321	0.032	%	99.7	80.0 - 120	Acceptable	
CB	2	0.0334	0.033	%	101	80.0 - 120	Acceptable	

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<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	
CBSA	<LOQ	0.003	%	< 0.003	Acceptable	
CBS	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
δ8THCV	<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	
δ9THC	<LOQ	0.003	%	< 0.003	Acceptable	
δ8THC	<LOQ	0.003	%	< 0.003	Acceptable	
9Sδ10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
9Rδ10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBSA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<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



12423 NE Whitaker Way  
 Portland, OR 97230  
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Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2306791						
Sample Duplicate		Sample ID: 23-0049120001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.142	0.143	0.003	%	0.440	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBSA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBS	0.148	0.150	0.003	%	1.53	< 20	Acceptable	
CBD	5.40	5.45	0.003	%	0.953	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
δ8THCV	<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	
δ9THC	0.219	0.221	0.003	%	0.870	< 20	Acceptable	
δ8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9Sα10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9Rα10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CB	0.268	0.269	0.003	%	0.463	< 20	Acceptable	
THCA	0.0066	0.0069	0.003	%	4.15	< 20	Acceptable	
CBSA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.003	%	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 Pesticide Quality Control Results**

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 2306806				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.890	1.000	89.0	50.0 150	
Acephate	0.000	< 0.200		0.769	0.800	96.2	60.0 120	
Acequinocyl	0.000	< 1.000		3.716	4.000	92.9	40.0 160	
Acetamiprid	0.000	< 0.100		0.373	0.400	93.3	60.0 120	
Aldicarb	0.000	< 0.200		0.752	0.800	94.0	60.0 120	
Azoxystrobin	0.000	< 0.100		0.360	0.400	90.0	60.0 120	
Bifenazate	0.000	< 0.100		0.393	0.400	98.3	60.0 120	
Bifenthrin	0.000	< 0.100		0.395	0.400	98.8	50.0 150	
Boscalid	0.000	< 0.200		0.737	0.800	92.2	60.0 120	
Carbaryl	0.000	< 0.100		0.395	0.400	98.8	60.0 120	
Carbofuran	0.000	< 0.100		0.374	0.400	93.5	60.0 120	
Chlorantraniliprole	0.000	< 0.100		0.373	0.400	93.3	60.0 120	
Chlorfenapyr	0.000	< 0.500		1.879	2.000	93.9	60.0 120	
Chlorpyrifos	0.000	< 0.100		0.368	0.400	92.0	60.0 120	
Clofentezine	0.000	< 0.100		0.359	0.400	89.7	60.0 120	
Cyfluthrin	0.000	< 0.500		1.874	2.000	93.7	50.0 150	
Cypermethrin	0.000	< 0.500		2.003	2.000	100.2	50.0 150	
Daminozide	0.179	< 0.500		0.634	2.000	31.7	60.0 120	Q6
Diazinon	0.000	< 0.100		0.377	0.400	94.3	60.0 120	
Dichlorvos	0.000	< 0.500		1.784	2.000	89.2	60.0 120	
Dimethoate	0.000	< 0.100		0.402	0.400	100.5	60.0 120	
Ethoprophos	0.000	< 0.100		0.363	0.400	90.7	60.0 120	
Etofenprox	0.000	< 0.200		0.787	0.800	98.4	50.0 150	
Etoxazole	0.000	< 0.100		0.386	0.400	96.6	60.0 120	
Fenoxycarb	0.000	< 0.100		0.386	0.400	96.6	60.0 120	
Fenpyroximate	0.000	< 0.200		0.784	0.800	98.0	60.0 120	
Fipronil	0.000	< 0.200		0.784	0.800	98.0	60.0 120	
Flonicamid	0.000	< 0.250		0.972	1.000	97.2	60.0 120	
Fludioxonil	0.000	< 0.200		0.783	0.800	97.9	50.0 150	
Hexythiazox	0.000	< 0.250		0.960	1.000	96.0	60.0 120	
Imazalil	0.000	< 0.100		0.380	0.400	95.0	60.0 120	
Imidacloprid	0.000	< 0.200		0.768	0.800	96.0	60.0 120	
Kresoxim-methyl	0.000	< 0.200		0.788	0.800	98.5	60.0 120	
Malathion	0.000	< 0.100		0.387	0.400	96.8	60.0 120	
Metaxalyl	0.000	< 0.100		0.369	0.400	92.4	60.0 120	
Methiocarb	0.000	< 0.100		0.382	0.400	95.4	60.0 120	
Methomyl	0.000	< 0.200		0.837	0.800	104.7	60.0 120	
MIG-264	0.000	< 0.100		0.369	0.400	92.2	50.0 150	
Myclobutanil	0.000	< 0.100		0.390	0.400	97.6	60.0 120	
Naled	0.000	< 0.250		0.973	1.000	97.3	50.0 150	
Oxamyl	0.000	< 0.500		2.102	2.000	105.1	60.0 120	
Paclobutrazole	0.000	< 0.200		0.707	0.800	88.3	60.0 120	
Parathion-Methyl	0.000	< 0.100		0.304	0.400	76.1	50.0 150	
Permethrin	0.000	< 0.100		0.392	0.400	97.9	50.0 150	
Phosmet	0.000	< 0.100		0.377	0.400	94.3	50.0 150	
Piperonyl butoxide	0.000	< 0.500		1.907	2.000	95.4	60.0 120	
Prallethrin	0.000	< 0.100		0.383	0.400	95.7	60.0 120	
Propiconazole	0.000	< 0.200		0.759	0.800	94.9	60.0 120	
Propoxur	0.000	< 0.100		0.399	0.400	99.6	60.0 120	
Pyrethrin (Summe)	0.000	< 0.100		0.423	0.488	86.7	60.0 120	
Pyridaben	0.000	< 0.100		0.380	0.400	95.1	50.0 150	
Spinosad	0.000	< 0.100		0.379	0.388	97.7	50.0 150	
Spiromesifen	0.000	< 0.100		0.388	0.400	97.0	60.0 120	
Spirotetramat	0.000	< 0.100		0.368	0.400	92.0	60.0 120	
Spiroxamine	0.000	< 0.200		0.751	0.800	93.9	60.0 120	
Tebuconazole	0.000	< 0.200		0.765	0.800	95.6	60.0 120	
Thiacloprid	0.000	< 0.100		0.386	0.400	96.5	60.0 120	
Thiamethoxam	0.000	< 0.100		0.406	0.400	101.5	60.0 120	
Trifloxystrobin	0.000	< 0.100		0.377	0.400	94.3	60.0 120	



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**Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN 15662										Units: mg/Kg		Batch ID: 2306806	
Matrix Spike/Matrix Spike Duplicate Recoveries					Sample ID: 23-004904-0004								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes			
Abamectin	0.000	0.930	0.919	1.000	1.2%	< 30	93.0%	91.9%	50 - 150				
Acephate	0.000	0.757	0.781	0.800	3.2%	< 30	94.6%	97.7%	50 - 150				
Acequinocyl	0.000	3.744	3.621	4.000	3.4%	< 30	93.6%	90.5%	50 - 150				
Acetamiprid	0.000	0.389	0.382	0.400	1.9%	< 30	97.3%	95.5%	50 - 150				
Aldicarb	0.000	0.790	0.766	0.800	3.1%	< 30	98.7%	95.7%	50 - 150				
Azoxystrobin	0.000	0.361	0.356	0.400	1.5%	< 30	90.3%	88.9%	50 - 150				
Bifenazate	0.000	0.384	0.389	0.400	1.3%	< 30	96.1%	97.3%	50 - 150				
Bifenthrin	0.000	0.401	0.384	0.400	4.2%	< 30	100.1%	96.0%	50 - 150				
Boscalid	0.000	0.752	0.727	0.800	3.4%	< 30	94.0%	90.9%	50 - 150				
Carbaryl	0.000	0.406	0.389	0.400	4.3%	< 30	101.5%	97.3%	50 - 150				
Carbofuran	0.000	0.411	0.381	0.400	7.4%	< 30	102.6%	95.3%	50 - 150				
Chlorantraniliprole	0.000	0.397	0.383	0.400	3.5%	< 30	99.2%	95.8%	50 - 150				
Chlorfenapyr	0.000	1.848	1.792	2.000	3.1%	< 30	92.4%	89.6%	50 - 150				
Chlorpyrifos	0.000	0.373	0.375	0.400	0.4%	< 30	93.3%	93.7%	50 - 150				
Clofentezine	0.000	0.324	0.335	0.400	3.5%	< 30	80.9%	83.7%	50 - 150				
Cyfluthrin	0.000	1.930	1.873	2.000	3.0%	< 30	96.5%	93.7%	30 - 150				
Cypermethrin	0.000	2.084	2.065	2.000	0.9%	< 30	104.2%	103.3%	50 - 150				
Daminozide	0.000	0.698	0.701	2.000	0.4%	< 30	34.9%	35.0%	30 - 150				
Diazinon	0.000	0.400	0.390	0.400	2.5%	< 30	100.0%	97.5%	50 - 150				
Dichlorvos	0.000	1.654	1.670	2.000	1.0%	< 30	82.7%	83.5%	50 - 150				
Dimethoate	0.000	0.412	0.403	0.400	2.3%	< 30	103.1%	100.8%	50 - 150				
Ethoprophos	0.000	0.378	0.377	0.400	0.2%	< 30	94.5%	94.3%	50 - 150				
Etofenprox	0.000	0.809	0.792	0.800	2.1%	< 30	101.1%	99.0%	50 - 150				
Etoxazole	0.000	0.379	0.380	0.400	0.2%	< 30	94.7%	94.9%	50 - 150				
Fenoxycarb	0.000	0.383	0.367	0.400	4.4%	< 30	95.9%	91.7%	50 - 150				
Fenpyroximate	0.000	0.823	0.811	0.800	1.5%	< 30	102.9%	101.3%	50 - 150				
Fipronil	0.000	0.803	0.786	0.800	2.1%	< 30	100.4%	98.3%	50 - 150				
Fonicamid	0.000	1.004	0.992	1.000	1.3%	< 30	100.4%	99.2%	50 - 150				
Fludioxonil	0.000	0.777	0.747	0.800	3.9%	< 30	97.2%	93.4%	50 - 150				
Hexythiazox	0.000	0.972	0.953	1.000	2.0%	< 30	97.2%	95.3%	50 - 150				
Imazalil	0.000	0.394	0.376	0.400	4.8%	< 30	98.6%	93.9%	50 - 150				
Imidacloprid	0.000	0.790	0.755	0.800	4.4%	< 30	98.7%	94.4%	50 - 150				
Kresoxim-methyl	0.000	0.748	0.758	0.800	1.3%	< 30	93.5%	94.7%	50 - 150				
Malathion	0.000	0.400	0.388	0.400	3.1%	< 30	100.1%	97.0%	50 - 150				
Metaxalyl	0.000	0.376	0.369	0.400	2.1%	< 30	94.1%	92.2%	50 - 150				
Methiocarb	0.000	0.395	0.380	0.400	3.9%	< 30	98.8%	95.1%	50 - 150				
Methomyl	0.000	0.822	0.854	0.800	3.8%	< 30	102.8%	106.8%	50 - 150				
MIG-264	0.000	0.356	0.340	0.400	4.5%	< 30	89.0%	85.1%	50 - 150				
Myclobutanil	0.000	0.378	0.377	0.400	0.2%	< 30	94.5%	94.4%	50 - 150				
Naled	0.000	0.991	0.975	1.000	1.7%	< 30	99.1%	97.5%	50 - 150				
Oxamyl	0.000	1.590	1.918	2.000	18.7%	< 30	79.5%	95.9%	50 - 150				
Paclobutrazole	0.000	0.729	0.743	0.800	1.8%	< 30	91.1%	92.8%	50 - 150				
Parathion-Methyl	0.000	0.325	0.354	0.400	8.5%	< 30	81.3%	88.5%	30 - 150				
Permethrin	0.000	0.395	0.386	0.400	2.1%	< 30	98.6%	96.6%	50 - 150				
Phosmet	0.000	0.381	0.361	0.400	5.5%	< 30	95.3%	90.2%	50 - 150				
Piperonyl butoxide	0.000	2.012	1.906	2.000	5.4%	< 30	100.6%	95.3%	50 - 150				
Prallethrin	0.000	0.393	0.380	0.400	3.5%	< 30	98.3%	94.9%	50 - 150				
Propiconazole	0.000	0.761	0.748	0.800	1.8%	< 30	95.2%	93.5%	50 - 150				
Propoxur	0.000	0.403	0.397	0.400	1.5%	< 30	100.7%	99.2%	50 - 150				
Pyrethrin (Summe)	0.000	0.407	0.417	0.488	2.4%	< 30	83.4%	85.5%	50 - 150				
Pyridaben	0.000	0.378	0.366	0.400	3.3%	< 30	94.6%	91.5%	50 - 150				
Spinosad	0.000	0.385	0.377	0.388	2.1%	< 30	99.3%	97.2%	50 - 150				
Spiromesifen	0.000	0.390	0.398	0.400	2.1%	< 30	97.5%	99.6%	50 - 150				
Spirotetramat	0.000	0.374	0.370	0.400	1.2%	< 30	93.6%	92.5%	50 - 150				
Spiroxamine	0.000	0.760	0.736	0.800	3.3%	< 30	95.0%	92.0%	50 - 150				
Tebuconazole	0.000	0.786	0.766	0.800	2.6%	< 30	98.3%	95.7%	50 - 150				
Thiacloprid	0.000	0.402	0.391	0.400	2.8%	< 30	100.5%	97.7%	50 - 150				
Thiamethoxam	0.000	0.404	0.389	0.400	3.9%	< 30	101.1%	97.2%	50 - 150				
Trifloxystrobin	0.000	0.394	0.385	0.400	2.2%	< 30	98.4%	96.3%	50 - 150				



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

Report Number: 23-005010/D002.R000  
 Report Date: 05/03/2023  
 ORELAP#: OR100028  
 Purchase Order:  
 Received: 04/25/23 12:45

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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2306903					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		581	584	µg/g	99.5	60 - 120	
Isobutane	ND	< 200		734	767	µg/g	95.7	60 - 120	
Butane	ND	< 200		779	782	µg/g	99.6	60 - 120	
2,2-Dimethylpropane	ND	< 200		1000	939	µg/g	106.5	60 - 120	
Methanol	ND	< 200		1430	1610	µg/g	88.8	60 - 120	
Ethylene Oxide	ND	< 30		64.2	57.1	µg/g	112.4	60 - 120	
2-Methylbutane	ND	< 200		1460	1600	µg/g	91.3	60 - 120	
Pentane	ND	< 200		1500	1610	µg/g	93.2	60 - 120	
Ethanol	ND	< 200		1430	1600	µg/g	89.4	70 - 130	
Ethyl Ether	ND	< 200		1460	1610	µg/g	90.7	60 - 120	
2,2-Dimethylbutane	ND	< 30		158	173	µg/g	91.3	60 - 120	
Acetone	ND	< 200		1450	1620	µg/g	89.5	60 - 120	
2-Propanol	ND	< 200		1430	1600	µg/g	89.4	60 - 120	
Ethyl Formate	ND	< 500		1570	1610	µg/g	97.5	70 - 130	
Acetonitrile	ND	< 100		420	488	µg/g	86.1	60 - 120	
Methyl Acetate	ND	< 500		1430	1610	µg/g	88.8	70 - 130	
2,3-Dimethylbutane	ND	< 30		155	165	µg/g	93.9	60 - 120	
Dichloromethane	ND	< 60		475	487	µg/g	97.5	60 - 120	
2-Methylpentane	ND	< 30		156	160	µg/g	97.5	60 - 120	
MTBE	ND	< 500		1510	1600	µg/g	94.4	70 - 130	
3-Methylpentane	ND	< 30		139	161	µg/g	86.3	60 - 120	
Hexane	ND	< 30		141	162	µg/g	87.0	60 - 120	
1-Propanol	ND	< 500		1560	1620	µg/g	96.3	70 - 130	
Methyl ethyl ketone	ND	< 500		1510	1610	µg/g	93.8	70 - 130	
Ethyl acetate	ND	< 200		1400	1600	µg/g	87.5	60 - 120	
2-Butanol	ND	< 200		1420	1610	µg/g	88.2	60 - 120	
Tetrahydrofuran	ND	< 100		433	483	µg/g	89.6	60 - 120	
Cyclohexane	ND	< 200		1450	1610	µg/g	90.1	60 - 120	
2-methyl-1-propanol	ND	< 500		1580	1630	µg/g	96.9	70 - 130	
Benzene	ND	< 1		4.67	4.98	µg/g	93.8	60 - 120	
Isopropyl Acetate	ND	< 200		1430	1610	µg/g	88.8	60 - 120	
Heptane	ND	< 200		1440	1620	µg/g	88.9	60 - 120	
1-Butanol	ND	< 500		1620	1600	µg/g	101.3	70 - 130	
Propyl Acetate	ND	< 500		1560	1620	µg/g	96.3	70 - 130	
1,4-Dioxane	ND	< 100		407	494	µg/g	82.4	60 - 120	
2-Ethoxyethanol	ND	< 30		155	165	µg/g	93.9	60 - 120	
Methylisobutylketone	ND	< 500		1850	1610	µg/g	114.9	70 - 130	
3-Methyl-1-butanol	ND	< 500		1590	1610	µg/g	98.8	70 - 130	
Ethylene Glycol	ND	< 200		384	488	µg/g	79.0	60 - 120	
Toluene	ND	< 100		416	513	µg/g	81.1	60 - 120	
Isobutyl Acetate	ND	< 500		1600	1600	µg/g	100.0	70 - 130	
1-Pentanol	ND	< 500		1660	1610	µg/g	103.1	70 - 130	
Butyl Acetate	ND	< 500		1630	1610	µg/g	101.2	70 - 130	
Ethylbenzene	ND	< 200		810	967	µg/g	83.8	60 - 120	
m,p-Xylene	ND	< 200		815	994	µg/g	82.0	60 - 120	
o-Xylene	ND	< 200		808	992	µg/g	81.5	60 - 120	
Cumene	ND	< 30		132	171	µg/g	77.2	60 - 120	
Anisole	ND	< 500		1680	1610	µg/g	104.3	70 - 130	
DMSO	ND	< 500		1850	1610	µg/g	114.9	70 - 130	
1,2-dimethoxyethane	ND	< 50		166	172	µg/g	96.5	70 - 130	
Triethylamine	ND	< 500		1740	1620	µg/g	107.4	70 - 130	
N,N-dimethylformamide	ND	< 150		532	499	µg/g	106.6	70 - 130	
N,N-dimethylacetamide	ND	< 150		599	491	µg/g	122.0	70 - 130	
Pyridine	ND	< 50		172	171	µg/g	100.6	70 - 130	
Silofane	ND	< 50		204	160	µg/g	127.5	70 - 130	
1,2-Dichloroethane	ND	< 1		0.682	1	µg/g	66.2	70 - 130	Q6
Chloroform	ND	< 1		0.734	1	µg/g	73.4	70 - 130	
Trichloroethylene	ND	< 1		0.761	1	µg/g	76.1	70 - 130	
1,1-Dichloroethane	ND	< 1		0.71	1	µg/g	71.0	70 - 130	

QC- Sample Duplicate

Sample ID: 23-005006-0001



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

**Report Number:** 23-005010/D002.R000  
**Report Date:** 05/03/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/25/23 12:45

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

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	
Methyl ethyl ketone	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	
Sulfone	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  
 Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

**Units of Measure:**

µg/g - Microgram per gram or ppm





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

**Report Number:** 23-005010/D002.R000  
**Report Date:** 05/03/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/25/23 12:45



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

**Report Number:** 23-005010/D002.R000  
**Report Date:** 05/03/2023  
**ORELAP#:** OR100028  
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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	Quantitation 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.