



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



**Report Number:** 21-007404/D002.R000  
**Report Date:** 07/13/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/30/21 14:27

**Customer:** Umpqua Distillation LLC  
**Product identity:** Batch #420-01  
**Client/Metric ID:** .  
**Laboratory ID:** 21-007404-0001

### Summary

**Potency:**

Analyte per 1g	Result	Limits	Units	Status	
CBD per 1g	0.158		mg/1g		THC-Total per 1g 0.873 mg/1g
Δ8-THC per 1g <sup>†</sup>	0.0615		mg/1g		
Δ9-THC per 1g	0.873		mg/1g		CBD-Total per 1g 0.158 mg/1g
(Reported in milligrams per serving)					

**Residual Solvents:**

All analytes passing and less than LOQ.

**Pesticides:**

All analytes passing and less than LOQ.

**Terpenes:**

Less than LOQ for all analytes.

**Metals:**

Less than LOQ for all analytes.

**Microbiology:**

Less than LOQ for all analytes.



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**Customer:** Umpqua Distillation LLC  
 United States of America (USA)

**Product identity:** Batch #420-01

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 21-007404-0001

**Evidence of Cooling:** No

**Temp:** 25.8 °C

**Serving Size #1:** 1 g

### Sample Results

Potency per 1g		Method J AOAC 2015 V98-6 (mod)Units mg/se			Batch: 2105982	Analyze: 7/7/21 2:19:00 AM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 1g <sup>†</sup>	< LOQ		mg/1g	0.0325		
CBC-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.0325		
CBC-Total per 1g <sup>†</sup>	< LOQ		mg/1g	0.0610		
CBD per 1g	0.158		mg/1g	0.0325		
CBD-A per 1g	< LOQ		mg/1g	0.0325		
CBD-Total per 1g	0.158		mg/1g	0.0610		
CBDV per 1g <sup>†</sup>	< LOQ		mg/1g	0.0325		
CBDV-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.0325		
CBDV-Total per 1g <sup>†</sup>	< LOQ		mg/1g	0.0607		
CBE per 1g <sup>†</sup>	< LOQ		mg/1g	0.0325		
CBG per 1g <sup>†</sup>	< LOQ		mg/1g	0.0325		
CBG-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.0325		
CBG-Total per 1g <sup>†</sup>	< LOQ		mg/1g	0.0607		
CBL per 1g <sup>†</sup>	< LOQ		mg/1g	0.0325		
CBL-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.0325		
CBL-Total per 1g <sup>†</sup>	< LOQ		mg/1g	0.0610		
CBN per 1g	< LOQ		mg/1g	0.0325		
CBT per 1g <sup>†</sup>	< LOQ		mg/1g	0.0325		
Δ8-THCV per 1g <sup>†</sup>	< LOQ		mg/1g	0.0325		
Δ8-THC per 1g <sup>†</sup>	0.0615		mg/1g	0.0325		
Δ9-THC per 1g	0.873		mg/1g	0.0325		
exo-THC per 1g <sup>†</sup>	< LOQ		mg/1g	0.0325		
THC-A per 1g	< LOQ		mg/1g	0.0325		
THC-Total per 1g	0.873		mg/1g	0.0610		
THCV per 1g <sup>†</sup>	< LOQ		mg/1g	0.0325		
THCV-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.0325		
THCV-Total per 1g <sup>†</sup>	< LOQ		mg/1g	0.0611		
Total Cannabinoids per 1g	1.09		mg/1g			



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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2105823	07/03/21	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2105823	07/03/21	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2105824	07/03/21	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2105824	07/03/21	AOAC 2014.05 (RAPID)	X

Solvents		Method Residual Solvents by GC/MS				Units µg/g	Batch 2106165	Analyze 07/13/21 10:23 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	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< 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	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200		
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	60.0	pass	
Methylpropane	< 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	< LOQ	2170	600	pass	



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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2106003 Analyze 07/07/21 03:38 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		Fonicamid	< 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							



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Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2105973	Analyze 07/06/21 07:38 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
Terpinolene <sup>†</sup>	< LOQ	0.018	0.00%		Geraniol <sup>†</sup>	< LOQ	0.018	0.00%	
a-Terpinene <sup>†</sup>	< LOQ	0.018	0.00%		β-Myrcene <sup>†</sup>	< LOQ	0.018	0.00%	
Sabinene <sup>†</sup>	< LOQ	0.018	0.00%		(R)-(+)-Limonene <sup>†</sup>	< LOQ	0.018	0.00%	
Linalool <sup>†</sup>	< LOQ	0.018	0.00%		(+)-Pulegone <sup>†</sup>	< LOQ	0.018	0.00%	
nerol <sup>†</sup>	< LOQ	0.018	0.00%		gamma-Terpinene <sup>†</sup>	< LOQ	0.018	0.00%	
(-)-a-Terpineol <sup>†</sup>	< LOQ	0.018	0.00%		Sabinene hydrate <sup>†</sup>	< LOQ	0.018	0.00%	
p-Cymene <sup>†</sup>	< LOQ	0.018	0.00%		valencene <sup>†</sup>	< LOQ	0.018	0.00%	
Geranyl acetate <sup>†</sup>	< LOQ	0.018	0.00%		(-)-β-Pinene <sup>†</sup>	< LOQ	0.018	0.00%	
a-pinene <sup>†</sup>	< LOQ	0.018	0.00%		(+)-fenchol <sup>†</sup>	< LOQ	0.018	0.00%	
Humulene <sup>†</sup>	< LOQ	0.018	0.00%		(±)-fenchone <sup>†</sup>	< LOQ	0.018	0.00%	
(±)-Camphor <sup>†</sup>	< LOQ	0.018	0.00%		a-phellandrene <sup>†</sup>	< LOQ	0.018	0.00%	
(-)-caryophyllene oxide <sup>†</sup>	< LOQ	0.018	0.00%		(-)-Guaiol <sup>†</sup>	< LOQ	0.018	0.00%	
(-)-Isopulegol <sup>†</sup>	< LOQ	0.018	0.00%		(+)-Borneol <sup>†</sup>	< LOQ	0.018	0.00%	
(+)-Cedrol <sup>†</sup>	< LOQ	0.018	0.00%		(±)-cis-Nerolidol <sup>†</sup>	< LOQ	0.018	0.00%	
(±)-trans-Nerolidol <sup>†</sup>	< LOQ	0.018	0.00%		a-Bisabolol <sup>†</sup>	< LOQ	0.018	0.00%	
a-cedrene <sup>†</sup>	< LOQ	0.018	0.00%		Camphene <sup>†</sup>	< LOQ	0.018	0.00%	
cis-β-Ocimene <sup>†</sup>	< LOQ	0.006	0.00%		d-3-Carene <sup>†</sup>	< LOQ	0.018	0.00%	
Eucalyptol <sup>†</sup>	< LOQ	0.018	0.00%		farnesene <sup>†</sup>	< LOQ	0.018	0.00%	
Isoborneol <sup>†</sup>	< LOQ	0.018	0.00%		Menthol <sup>†</sup>	< LOQ	0.018	0.00%	
β-Caryophyllene <sup>†</sup>	< LOQ	0.018	0.00%		trans-β-Ocimene <sup>†</sup>	< LOQ	0.012	0.00%	
<b>Total Terpenes</b>	<b>&lt; LOQ</b>								

Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.00957	2105929	07/02/21	AOAC 2013.06 (mod.)	X, H	
Cadmium	< LOQ		mg/kg	0.00957	2105929	07/02/21	AOAC 2013.06 (mod.)	X, H	
Lead	< LOQ		mg/kg	0.00957	2105929	07/02/21	AOAC 2013.06 (mod.)	X, H	
Mercury	< LOQ		mg/kg	0.00479	2105929	07/02/21	AOAC 2013.06 (mod.)	X, H	

Mycotoxins									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Aflatoxin B2 <sup>†</sup>	< LOQ		µg/kg	5.00	2105992	07/07/21	AOAC 2007.01 & EN 15662		
Aflatoxin B1 <sup>†</sup>	< LOQ		µg/kg	5.00	2105992	07/07/21	AOAC 2007.01 & EN 15662		
Aflatoxin G1 <sup>†</sup>	< LOQ		µg/kg	5.00	2105992	07/07/21	AOAC 2007.01 & EN 15662		
Aflatoxin G2 <sup>†</sup>	< LOQ		µg/kg	5.00	2105992	07/07/21	AOAC 2007.01 & EN 15662		
Deoxynivalenol <sup>†</sup>	< LOQ		µg/kg	200	2105992	07/07/21	AOAC 2007.01 & EN 15662		
Fumonisin B1 <sup>†</sup>	< LOQ		µg/kg	200	2105992	07/07/21	AOAC 2007.01 & EN 15662		
Fumonisin B2 <sup>†</sup>	< LOQ		µg/kg	200	2105992	07/07/21	AOAC 2007.01 & EN 15662		
HT2-Toxin <sup>†</sup>	< LOQ		µg/kg	40.0	2105992	07/07/21	AOAC 2007.01 & EN 15662		
Nivalenol <sup>†</sup>	< LOQ		µg/kg	400	2105992	07/07/21	AOAC 2007.01 & EN 15662		
Ochratoxin A <sup>†</sup>	< LOQ		µg/kg	5.00	2105992	07/07/21	AOAC 2007.01 & EN 15662		
Ochratoxin B <sup>†</sup>	< LOQ		µg/kg	2.00	2105992	07/07/21	AOAC 2007.01 & EN 15662		
T2-Toxin <sup>†</sup>	< LOQ		µg/kg	20.0	2105992	07/07/21	AOAC 2007.01 & EN 15662		
Zearalenone <sup>†</sup>	< LOQ		µg/kg	200	2105992	07/07/21	AOAC 2007.01 & EN 15662		



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These test results are representative of the individual sample selected and submitted by the client.

**Abbreviations**

**Limits:** Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**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.

† = Analyte not NELAP accredited.

**Units of Measure**

cfu/g = Colony forming units per gram

g = Gram

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

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**

H: Holding time was exceeded.

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner  
General Manager



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Hemp / Cannabis Usable / Extract / Finished Products  
Chain of Custody Record

Revision: 4.00 Control#: CF023 Rev 02/24/2021 Eff: 03/04/2021  
ORELAP ID: OR100028

21-007404

Company: <u>umpqua distillation LLC</u> Contact: <u>Levi Miller</u> Street: <u>342 Beaver Ln</u> City: <u>Roseburg</u> State: <u>OR</u> Zip: <u>97471</u> <input type="checkbox"/> Email Results: <u>levimiller25@icloud.com</u> Ph: <u>(541)328-1199</u> <input type="checkbox"/> Fx Results: ( ) Billing (if different): _____				<b>Analysis Requested</b>										PO Number: _____ Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input type="checkbox"/> 5 Business Day Standard Turnaround <input type="checkbox"/> 3 Business Day Rush Turnaround* <input type="checkbox"/> 2 Business Day Rush Turnaround* <small>*Check for availability</small> Sampled by: _____			
Lab ID	Client Sample Identification	Date	Time	Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Other:	Sample Type †	Weight (Units)	Comments/Metric ID
	<u>Batch #420-01</u>			X	X	X	X		X	X	X	X	X				<u>Sour watermelon</u> <u>CBD gummies</u>  <u>will call for payment</u>
Relinquished By:		Date	Time	Received By:		Date	Time	Lab Use Only:									
<u>Dem Park</u>				<u>Jmw</u>		<u>6/30/21</u>	<u>14:27</u>	<input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No - Temp (°C): <u>25.8</u> Sample in good condition: <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No <input type="checkbox"/> Cash   <input type="checkbox"/> Check   <input type="checkbox"/> CC   <input type="checkbox"/> Net: _____ Prelog storage: _____									

† - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)

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Page 1 of 1  
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Terpenes Quality Control Results

Method Reference: EPA5035				Batch ID: 2105973					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		596	500	µg/g	119%	70 - 130	
Camphene	<LOQ	< 200		494	500	µg/g	99%	70 - 130	
Sabinene	<LOQ	< 200		496	500	µg/g	99%	70 - 130	
b-Phene	<LOQ	< 200		461	500	µg/g	92%	70 - 130	
b-Myrcene	<LOQ	< 200		516	500	µg/g	103%	70 - 130	
a-phellandrene	<LOQ	< 200		537	500	µg/g	107%	70 - 130	
d-3-Caene	<LOQ	< 200		566	500	µg/g	113%	70 - 130	
a-Terpinene	<LOQ	< 200		496	500	µg/g	99%	70 - 130	
p-Cymene	<LOQ	< 200		514	500	µg/g	103%	70 - 130	
D-Limonene	<LOQ	< 200		447	500	µg/g	89%	70 - 130	
Eucalyptol	<LOQ	< 200		510	500	µg/g	102%	70 - 130	
b-α-Cimene	<LOQ	< 67		185	167	µg/g	111%	70 - 130	
b-trans-Cimene	<LOQ	< 133		341	333	µg/g	102%	70 - 130	
g-Terpinene	<LOQ	< 200		452	500	µg/g	90%	70 - 130	
Sabinene Hydrate	<LOQ	< 200		480	500	µg/g	96%	70 - 130	
Terpinolene	<LOQ	< 200		443	500	µg/g	89%	70 - 130	
D-Fenchone	<LOQ	< 200		487	500	µg/g	97%	70 - 130	
Linalool	<LOQ	< 200		516	500	µg/g	103%	70 - 130	
Fenchol	<LOQ	< 200		485	500	µg/g	97%	70 - 130	
Camphor	<LOQ	< 200		475	500	µg/g	95%	70 - 130	
Isopuleg	<LOQ	< 200		476	500	µg/g	95%	70 - 130	
Isborneol	<LOQ	< 200		485	500	µg/g	97%	70 - 130	
Borneol	<LOQ	< 200		478	500	µg/g	96%	70 - 130	
DL-Menthol	<LOQ	< 200		498	500	µg/g	100%	70 - 130	
Terpineol	<LOQ	< 200		439	500	µg/g	88%	70 - 130	
Nerol	<LOQ	< 200		496	500	µg/g	99%	70 - 130	
Pulegone	<LOQ	< 200		589	500	µg/g	118%	70 - 130	
Geraniol	<LOQ	< 200		431	500	µg/g	86%	70 - 130	
Geranyl Acetate	<LOQ	< 200		501	500	µg/g	100%	70 - 130	
α-Cedrene	<LOQ	< 200		484	500	µg/g	97%	70 - 130	
b-Caryophyllene	<LOQ	< 200		392	500	µg/g	78%	70 - 130	
α-Humulene	<LOQ	< 200		456	500	µg/g	91%	70 - 130	
Valenene	<LOQ	< 200		462	500	µg/g	92%	70 - 130	
cis-Nerolidol	<LOQ	< 200		493	500	µg/g	99%	70 - 130	
α-Farnesene	323	< 200		583	500	µg/g	117%	70 - 130	
trans-Nerolidol	<LOQ	< 200		458	500	µg/g	92%	70 - 130	
Caryophyllene Oxide	<LOQ	< 200		585	500	µg/g	117%	70 - 130	
Guaiol	<LOQ	< 200		501	500	µg/g	100%	70 - 130	
Cedrol	<LOQ	< 200		467	500	µg/g	93%	70 - 130	
α-Bisabolol	<LOQ	< 200		491	500	µg/g	98%	70 - 130	

Definitions

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





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



**Report Number:** 21-007404/D002.R000  
**Report Date:** 07/13/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/30/21 14:27

Terpenes Quality Control Results

Method Reference: EPA5035		Batch ID: 2105973					
Sample/Sample Duplicate		Sample ID: 21-007404-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	183	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	183	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	183	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	183	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	183	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	183	µg/g	0%	< 20	
d-3-Caene	<LOQ	<LOQ	183	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	183	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	183	µg/g	0%	< 20	
D-Limonene	<LOQ	<LOQ	183	µg/g	0%	< 20	
Eucalyptol	<LOQ	<LOQ	183	µg/g	0%	< 20	
b-cis-OCimene	<LOQ	<LOQ	61.0	µg/g	0%	< 20	
b-trans-OCimene	<LOQ	<LOQ	122	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	183	µg/g	0%	< 20	
Sabinene Hydrate	<LOQ	<LOQ	183	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	183	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	183	µg/g	0%	< 20	
Linalool	<LOQ	<LOQ	183	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	183	µg/g	0%	< 20	
Isopuleg	<LOQ	<LOQ	183	µg/g	0%	< 20	
Isborneol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	183	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Rulegone	<LOQ	<LOQ	183	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	183	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	183	µg/g	0%	< 20	
b-Caryophyllene	<LOQ	<LOQ	183	µg/g	0%	< 20	
a-Humulene	<LOQ	<LOQ	183	µg/g	0%	< 20	
Valenene	<LOQ	<LOQ	183	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	183	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	183	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Caryophyllene_Oxide	<LOQ	<LOQ	183	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	183	µg/g	0%	< 20	
a-Bisabol	<LOQ	<LOQ	183	µg/g	0%	< 20	

Definitions

RPD Relative Percent Difference



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

**Report Number:** 21-007404/D002.R000  
**Report Date:** 07/13/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/30/21 14:27



Revision #: 0.00 Control : CFL-D06  
Revision Date: 05/31/2019 Effective Date: 05/31/2019

**Laboratory Quality Control Results**

J AOAC 2015 V98-6								
Batch ID: 2105982								
Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	0.00971	0.01	%	97.1	85.0	- 115	Acceptable	
CBDV	0.00966	0.01	%	96.6	85.0	- 115	Acceptable	
CBE	0.0101	0.01	%	101	85.0	- 115	Acceptable	
CBDA	0.00981	0.01	%	98.1	85.0	- 115	Acceptable	
CBGA	0.00966	0.01	%	96.6	85.0	- 115	Acceptable	
CBG	0.00986	0.01	%	98.6	85.0	- 115	Acceptable	
CBD	0.00973	0.01	%	97.3	85.0	- 115	Acceptable	
THCV	0.00996	0.01	%	99.6	85.0	- 115	Acceptable	
d8THCV	0.00991	0.01	%	99.1	85.0	- 115	Acceptable	
THCVA	0.00937	0.01	%	93.7	85.0	- 115	Acceptable	
CBN	0.0106	0.01	%	106	85.0	- 115	Acceptable	
exo-THC	0.00959	0.01	%	95.9	85.0	- 115	Acceptable	
d9THC	0.0101	0.01	%	101	85.0	- 115	Acceptable	
d8THC	0.00973	0.01	%	97.3	85.0	- 115	Acceptable	
CBL	0.00953	0.01	%	95.3	85.0	- 115	Acceptable	
CBC	0.0101	0.01	%	101	85.0	- 115	Acceptable	
THCA	0.00964	0.01	%	96.4	85.0	- 115	Acceptable	
CBCA	0.00926	0.01	%	92.6	85.0	- 115	Acceptable	
CBLA	0.0101	0.01	%	101	85.0	- 115	Acceptable	
CBT	0.0102	0.01	%	102	85.0	- 115	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



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



**Report Number:** 21-007404/D002.R000  
**Report Date:** 07/13/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/30/21 14:27

Revision #: 0.00 Control : CFL-D06  
Revision Date: 05/31/2019 Effective Date: 05/31/2019

**Laboratory Quality Control Results**

J AOAC 2015 V98-6		Batch ID: 2105982						
Sample Duplicate		Sample ID: 21-007367-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBE	0.00701	0.00710	0.003	%	1.29	< 20	Acceptable	
CBD A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.648	0.655	0.003	%	1.08	< 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	0.00370	0.00370	0.003	%	0.100	< 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	0.00478	0.00483	0.003	%	1.02	< 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	0.00520	0.00510	0.003	%	1.89	< 20	Acceptable	

**Abbreviations**

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- NA - Calculation Not Applicable given non-numerical results

**Units of Measure:**

% - Percent



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



Report Number: 21-007404/D002.R000  
 Report Date: 07/13/2021  
 ORELAP#: OR100028  
 Purchase Order:  
 Received: 06/30/21 14:27

Revision: 1.00 Control: CFL-C21  
 Revised: 08/12/2019 Effective: 08/15/2019

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2106003				
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 21-007404-0001									
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Acephate	0.000	1.294	1.286	1.000	0.7%	< 30	129.4%	128.6%	50 - 150		
Acetaminophen	0.000	14.972	13.457	4.000	10.7%	< 30	374.3%	336.4%	50 - 150	Q1	
Acetamiprid	0.000	0.554	0.570	0.400	2.8%	< 30	138.6%	142.5%	50 - 150		
Aldicarb	0.000	1.545	1.575	0.800	1.9%	< 30	193.1%	196.9%	50 - 150	Q1	
Abamectin	0.000	1.159	1.211	1.000	4.4%	< 30	115.9%	121.1%	50 - 150		
Azoxystrobin	0.000	0.555	0.560	0.400	0.8%	< 30	138.8%	140.0%	50 - 150		
Bifenazate	0.000	0.557	0.542	0.400	2.6%	< 30	139.2%	135.6%	50 - 150		
Bifenthrin	0.000	0.638	0.638	0.400	0.1%	< 30	159.6%	159.4%	50 - 150	Q1	
Boscalid	0.000	1.102	1.063	0.800	3.6%	< 30	137.8%	132.9%	50 - 150		
Carbaryl	0.000	0.588	0.613	0.400	4.1%	< 30	147.1%	153.2%	50 - 150	Q1	
Carbofuran	0.000	0.566	0.578	0.400	2.2%	< 30	141.4%	144.5%	50 - 150		
Chlorantraniliprol	0.000	0.477	0.495	0.400	3.7%	< 30	119.3%	123.8%	50 - 150		
Chlorfenapyr	0.000	2.082	2.102	2.000	0.9%	< 30	104.1%	105.1%	50 - 150		
Chlorpyrifos	0.000	0.514	0.502	0.400	2.5%	< 30	128.6%	125.4%	50 - 150		
Clofentezine	0.000	0.127	0.119	0.400	7.0%	< 30	31.9%	29.7%	50 - 150	Q	
Cyfluthrin	0.000	3.533	3.497	2.000	1.0%	< 30	176.6%	174.8%	30 - 150	Q1	
Cypermethrin	0.000	3.385	3.284	2.000	3.1%	< 30	169.3%	164.2%	50 - 150	Q1	
Daminozide	0.017	1.362	1.381	2.000	1.4%	< 30	67.2%	68.2%	30 - 150		
Diazinon	0.000	0.628	0.597	0.400	5.0%	< 30	156.9%	149.3%	50 - 150	Q1	
Dichlorvos	0.000	3.462	3.173	2.000	8.7%	< 30	173.1%	158.7%	50 - 150	Q1	
Dimethoat	0.000	0.595	0.573	0.400	3.8%	< 30	148.7%	143.2%	50 - 150		
Ethoprophos	0.000	0.613	0.600	0.400	2.1%	< 30	153.3%	150.1%	50 - 150	Q1	
Etofenprox	0.000	1.441	1.461	0.800	1.4%	< 30	180.1%	182.6%	50 - 150	Q1	
Etoxazol	0.000	0.880	0.865	0.400	1.7%	< 30	220.0%	216.3%	50 - 150	Q1	
Fenoxycarb	0.000	0.598	0.595	0.400	0.6%	< 30	149.5%	148.6%	50 - 150		
Fenproximat	0.000	0.920	0.914	0.800	0.6%	< 30	115.0%	114.3%	50 - 150		
Fipronil	0.000	1.531	1.487	0.800	2.9%	< 30	191.4%	185.9%	50 - 150	Q1	
Fonicamid	0.000	1.128	1.101	1.000	2.4%	< 30	112.8%	110.1%	50 - 150		
Fludioxonil	0.000	0.926	0.880	0.800	5.1%	< 30	115.7%	110.0%	50 - 150		
Hexythiazox	0.000	3.875	3.883	1.000	0.2%	< 30	387.5%	388.3%	50 - 150	Q1	
Imazalil	0.000	0.667	0.688	0.400	3.1%	< 30	166.6%	171.9%	50 - 150	Q1	
Imidacloprid	0.000	0.758	0.781	0.800	3.0%	< 30	94.8%	97.7%	50 - 150		
Kresoxim-Methyl	0.000	1.196	1.114	0.800	7.1%	< 30	149.5%	139.2%	50 - 150		
Malathion	0.000	0.598	0.580	0.400	3.1%	< 30	149.5%	145.0%	50 - 150		
Metaxalyl	0.000	0.622	0.632	0.400	1.5%	< 30	155.6%	157.9%	50 - 150	Q1	
Methiocarb	0.000	0.615	0.600	0.400	2.6%	< 30	153.9%	150.0%	50 - 150	Q1	
Methomyl	0.000	0.992	0.942	0.800	5.2%	< 30	124.1%	117.8%	50 - 150		
MGK 264	0.000	0.596	0.570	0.400	4.4%	< 30	149.0%	142.6%	50 - 150		
Myclobutanil	0.000	0.517	0.500	0.400	3.5%	< 30	129.3%	124.9%	50 - 150		
Naled	0.000	1.572	1.631	1.000	3.7%	< 30	157.2%	163.1%	50 - 150	Q1	
Oxamyl	0.000	2.483	2.401	2.000	3.4%	< 30	124.2%	120.1%	50 - 150		
Paclobutrazol	0.000	1.153	1.175	0.800	1.9%	< 30	144.1%	146.8%	50 - 150		
Parathion Methyl	0.000	1.167	1.180	0.800	1.1%	< 30	145.9%	147.6%	30 - 150		
Permethrin	0.000	0.593	0.585	0.400	1.5%	< 30	148.4%	146.2%	50 - 150		
Phosmet	0.000	0.609	0.619	0.400	1.6%	< 30	152.3%	154.8%	50 - 150	Q1	
Piperonyl butoxide	0.000	2.690	2.737	2.000	1.7%	< 30	134.5%	136.8%	50 - 150		
Prallethrin	0.000	0.643	0.632	0.400	1.8%	< 30	160.8%	157.9%	50 - 150	Q1	
Propiconazole	0.000	1.207	1.206	0.800	0.1%	< 30	150.9%	150.7%	50 - 150	Q1	
Propoxur	0.000	0.592	0.568	0.400	4.0%	< 30	147.9%	142.1%	50 - 150		
Pyrethrins	0.000	0.470	0.469	0.413	0.2%	< 30	113.8%	113.5%	50 - 150		
Pyridaben	0.000	0.875	0.881	0.400	0.7%	< 30	218.7%	220.3%	50 - 150	Q1	
Spinosad	0.000	0.551	0.548	0.388	0.5%	< 30	141.9%	141.2%	50 - 150		
Spiromesifen	0.000	0.988	1.028	0.400	4.0%	< 30	247.0%	257.0%	50 - 150	Q1	
Spirotetramat	0.000	0.417	0.418	0.400	0.2%	< 30	104.3%	104.6%	50 - 150		
Spiroxamine	0.000	1.233	1.226	0.800	0.5%	< 30	154.1%	153.3%	50 - 150	Q1	
Tebuconazol	0.000	1.150	1.130	0.800	1.8%	< 30	143.8%	141.2%	50 - 150		
Thiadoprid	0.000	0.643	0.659	0.400	2.4%	< 30	160.8%	164.8%	50 - 150	Q1	
Thiamethoxam	0.000	0.421	0.411	0.400	2.3%	< 30	105.2%	102.8%	50 - 150		
Trifloxystrobin	0.000	0.565	0.578	0.400	2.3%	< 30	141.3%	144.6%	50 - 150		



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**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/30/21 14:27



Revision: 1.00 Control: CFL-C21  
 Revised: 08/12/2019 Effective: 08/15/2019

**Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 2106003				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Accephate	0.029	< 0.250		1.167	1.000	116.7	66.7 - 124	
Acequinocyl	0.000	< 1.000		9.423	4.000	235.6	66.1 - 123	Q1
Acetamiprid	0.000	< 0.100		0.436	0.400	109.1	70.6 - 131	
Aldicarb	0.000	< 0.200		1.233	0.800	154.1	68.9 - 128	Q1
Abamectin	0.000	< 0.250		1.087	1.000	108.7	71.6 - 133	
Azoxystrobin	0.000	< 0.100		0.472	0.400	118.0	68.3 - 127	
Bifenazate	0.000	< 0.100		0.464	0.400	116.1	70.6 - 131	
Bifenthrin	0.000	< 0.100		0.548	0.400	137.0	68.8 - 128	Q1
Boscalid	0.000	< 0.200		0.887	0.800	110.8	71.3 - 132	
Carbaryl	0.000	< 0.100		0.463	0.400	115.6	70.1 - 130	
Carbofuran	0.000	< 0.100		0.451	0.400	112.8	68.7 - 128	
Chlorantraniliprol	0.000	< 0.100		0.365	0.400	91.4	71.2 - 132	
Chlorfenapyr	0.000	< 0.500		1.929	2.000	96.5	70.6 - 131	
Chlorpyrifos	0.000	< 0.100		0.520	0.400	130.0	67.6 - 126	Q1
Clofentezine	0.000	< 0.100		0.187	0.400	46.6	35.8 - 66.4	
Cyfluthrin	0.000	< 0.500		2.622	2.000	131.1	71.6 - 133	
Cypermethrin	0.000	< 0.500		2.671	2.000	133.5	71.9 - 134	
Daminozide	0.050	< 0.500		0.866	2.000	43.3	25.4 - 47.2	
Diazinon	0.000	< 0.100		0.528	0.400	132.0	70.3 - 131	Q1
Dichlorvos	0.000	< 0.500		3.415	2.000	170.8	77.1 - 143	Q1
Dimethoat	0.000	< 0.100		0.487	0.400	121.7	68.9 - 128	
Ethoprophos	0.000	< 0.100		0.548	0.400	137.1	69.9 - 130	Q1
Etofenprox	0.000	< 0.200		1.098	0.800	137.3	69.5 - 129	Q1
Etoxazol	0.000	< 0.100		0.639	0.400	159.7	77.2 - 143	Q1
Fenoxycarb	0.000	< 0.100		0.489	0.400	122.3	69.9 - 130	
Fenpyroximat	0.000	< 0.200		0.914	0.800	114.2	67.1 - 125	
Fipronil	0.000	< 0.200		0.966	0.800	120.8	69.0 - 128	
Flonicamid	0.000	< 0.250		1.128	1.000	112.8	70.8 - 131	
Fludoxonil	0.000	< 0.200		1.105	0.800	138.1	68.7 - 128	Q1
Hexythiazox	0.000	< 0.250		1.022	1.000	102.2	67.5 - 125	
Imazalil	0.000	< 0.100		0.499	0.400	124.6	69.7 - 129	
Imidacloprid	0.000	< 0.200		0.965	0.800	120.6	70.4 - 131	
Kresoxim-Methyl	0.000	< 0.200		0.907	0.800	113.4	70.9 - 132	
Malathion	0.000	< 0.100		0.486	0.400	121.4	69.7 - 129	
Metaxalyl	0.000	< 0.100		0.494	0.400	123.6	69.5 - 129	
Methiocarb	0.000	< 0.100		0.511	0.400	127.7	70.8 - 131	
Methomyl	0.000	< 0.200		0.975	0.800	121.8	69.0 - 128	
MGK 264	0.000	< 0.100		0.447	0.400	111.7	69.6 - 129	
Myclobutanil	0.000	< 0.100		0.455	0.400	113.8	69.4 - 129	
Naled	0.000	< 0.250		0.391	1.000	39.1	30.8 - 57.2	
Oxamyl	0.000	< 0.500		2.624	2.000	131.2	69.3 - 129	Q1
Paclobutrazol	0.000	< 0.200		0.869	0.800	108.6	70.3 - 131	
Parathion Methyl	0.000	< 0.200		0.854	0.800	106.7	69.1 - 128	
Permethrin	0.000	< 0.100		0.512	0.400	127.9	68.1 - 127	Q1
Phosmet	0.000	< 0.100		0.447	0.400	111.7	70.5 - 131	
Piperonyl butoxide	0.000	< 0.500		2.347	2.000	117.4	69.8 - 130	
Prallethrin	0.000	< 0.100		0.393	0.400	98.4	70.0 - 130	
Propiconazole	0.000	< 0.200		0.958	0.800	119.7	70.6 - 131	
Propoxur	0.003	< 0.100		0.479	0.400	119.8	68.6 - 127	
Pyrethrins	0.000	< 0.100		0.453	0.413	109.6	70.1 - 130	
Pyridaben	0.000	< 0.100		0.493	0.400	123.2	71.3 - 132	
Spinosad	0.000	< 0.100		0.446	0.388	115.0	72.0 - 134	
Spiromesifen	0.000	< 0.100		0.458	0.400	114.6	70.8 - 132	
Spirotetramat	0.000	< 0.100		0.441	0.400	110.2	69.3 - 129	
Spiroxamine	0.000	< 0.200		1.000	0.800	125.0	69.2 - 129	
Tebuconazol	0.000	< 0.200		0.937	0.800	117.1	70.0 - 130	
Thiadoprid	0.000	< 0.100		0.506	0.400	126.4	69.9 - 130	
Thiamethoxam	0.000	< 0.100		0.444	0.400	110.9	70.7 - 131	
Trifloxystrobin	0.000	< 0.100		0.510	0.400	127.4	69.1 - 128	



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



**Report Number:** 21-007404/D002.R000  
**Report Date:** 07/13/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/30/21 14:27

Laboratory Quality Control Results

Residual Solvents		Batch ID: 2106165										
Method Blank				Laboratory Control Sample								
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes			
Propane	ND	< 200		545	595	µg/g	91.6	70	-	130		
Isobutane	ND	< 200		805	761	µg/g	105.8	70	-	130		
Butane	ND	< 200		816	761	µg/g	107.2	70	-	130		
2,2-Dimethylpropane	ND	< 200		903	955	µg/g	94.6	70	-	130		
Methanol	ND	< 200		1940	1610	µg/g	120.5	70	-	130		
Ethylene Oxide	ND	< 30		58.1	58.3	µg/g	99.7	70	-	130		
2-Methylbutane	ND	< 200		1600	1610	µg/g	99.4	70	-	130		
Pentane	ND	< 200		1560	1620	µg/g	96.3	70	-	130		
Ethanol	ND	< 200		1870	1610	µg/g	116.1	70	-	130		
Ethyl Ether	ND	< 200		1870	1610	µg/g	116.1	70	-	130		
2,2-Dimethylbutane	ND	< 30		144	172	µg/g	83.7	70	-	130		
Acetone	ND	< 200		1660	1600	µg/g	103.8	70	-	130		
2-Propanol	ND	< 200		1870	1620	µg/g	115.4	70	-	130		
Acetonitrile	ND	< 100		549	501	µg/g	109.6	70	-	130		
2,3-Dimethylbutane	ND	< 30		146	163	µg/g	89.6	70	-	130		
Dichloromethane	ND	< 60		568	483	µg/g	117.6	70	-	130		
2-Methylpentane	ND	< 30		187	164	µg/g	114.0	70	-	130		
3-Methylpentane	ND	< 30		198	164	µg/g	120.7	70	-	130		
Hexane	ND	< 30		174	163	µg/g	106.7	70	-	130		
Ethyl acetate	ND	< 200		1720	1610	µg/g	106.8	70	-	130		
2-Butanol	ND	< 200		1740	1620	µg/g	107.4	70	-	130		
Tetrahydrofuran	ND	< 100		559	500	µg/g	111.8	70	-	130		
Cyclohexane	ND	< 200		1600	1610	µg/g	99.4	70	-	130		
Benzene	ND	< 1		5.33	5.42	µg/g	98.3	70	-	130		
Isopropyl Acetate	ND	< 200		1640	1600	µg/g	102.5	70	-	130		
Heptane	ND	< 200		1510	1600	µg/g	94.4	70	-	130		
1,4-Dioxane	ND	< 100		404	490	µg/g	82.4	70	-	130		
2-Ethoxyethanol	ND	< 30		169	163	µg/g	103.7	70	-	130		
Ethylene Glycol	ND	< 200		517	484	µg/g	106.8	70	-	130		
Toluene	ND	< 200		526	482	µg/g	109.1	70	-	130		
Ethylbenzene	ND	< 200		997	970	µg/g	102.8	70	-	130		
m,p-Xylene	ND	< 200		941	991	µg/g	95.0	70	-	130		
o-Xylene	ND	< 200		1040	967	µg/g	107.5	70	-	130		
Cumene	ND	< 30		182	169	µg/g	107.7	70	-	130		



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QC - Sample Duplicate Sample ID: 21-007436-0001

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	3020	2840	200	µg/g	6.1	< 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	
Acetonitrile	ND	ND	100	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	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	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	
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	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	200	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	

**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	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.