



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



Report Number: 22-012186/D002.R001
Report Date: 12/16/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/10/22 10:10

This is an amended version of report# 22-012186/D002.R000.
Reason: Updated customer information.

Customer: TribeTokes
Product identity: D8 ZTZ
Project Number: CBD100322
Client/Metric ID: .
Laboratory ID: 22-012186-0016

Summary

Potency:

Analyte	Result (%)	- Δ8-THC - CBD - CBG - CBE - Δ8-THCV - CBDV	CBD-Total 4.73% THC-Total <LOQ (Reported in percent of total sample)
Δ8-THC	73.6		
CBD	4.73		
CBG	1.07		
CBE	0.784		
Δ8-THCV	0.261		
CBDV	0.219		

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
n-Heptane	1370	5000	pass

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.



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

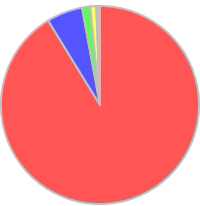


Report Number: 22-012186/D002.R001
Report Date: 12/16/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/10/22 10:10

Customer: TribeTokes
3505 Cadillac Ave BLDG E
Costa Mesa 92626
United States of America (USA)

Product identity: D8 ZTZ
Project Number: CBD100322
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-012186-0016
Evidence of Cooling: No
Temp: 21 °C
Relinquished by: UPS

Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) ^b			Units %	Batch: 2208681	Analyze: 10/12/22 11:00:00 A
Analyte	As Received	Dry weight	LOQ	Notes		
CBC	< LOQ		0.0753			
CBC-A	< LOQ		0.0753			
CBC-Total	< LOQ		0.141			
CBD	4.73		0.0753			
CBD-A	< LOQ		0.0753			
CBD-Total	4.73		0.141			
CBDV	0.219		0.0753			
CBDV-A	< LOQ		0.0753			
CBDV-Total	0.219		0.141			
CBE	0.784		0.0753			
CBG	1.07		0.0753			
CBG-A	< LOQ		0.0753			
CBG-Total	1.07		0.141			
CBL	< LOQ		0.0753			
CBL-A	< LOQ		0.0753			
CBL-Total	< LOQ		0.141			
CBN	< LOQ		0.0753			
CBT	< LOQ		0.0753			
Δ10-THC	< LOQ		0.0753			
Δ8-THC	73.6		0.753			
Δ8-THCV	0.261		0.0753			
Δ9-THC	< LOQ		0.0753			
exo-THC	< LOQ		0.0753			
THC-A	< LOQ		0.0753			
THC-Total	< LOQ		0.141			
THCV	< LOQ		0.0753			
THCV-A	< LOQ		0.0753			
THCV-Total	< LOQ		0.141			
Total Cannabinoids	80.7					



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



Report Number: 22-012186/D002.R001
Report Date: 12/16/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/10/22 10:10

Solvents						Method: Residual Solvents by GC/MS ^b						Units µg/g		Batch 2208702		Analyze 10/13/22 10:26 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	1370	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									



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



Report Number: 22-012186/D002.R001
Report Date: 12/16/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/10/22 10:10

Pesticides					Method: AOAC 2007.01 & EN 15662 (mod) ^b	Units mg/kg	Batch 2208761	Analyze 10/14/22 10:49 AM			
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		Etiozazole [¥]	< LOQ	0.20	0.100	pass	
Fenoxycarb [¥]	< LOQ	0.20	0.100	pass		Fenpyroximate [¥]	< LOQ	0.40	0.200	pass	
Fipronil [¥]	< LOQ	0.40	0.200	pass		Flonicamid [¥]	< LOQ	1.0	0.400	pass	
Fludioxonil [¥]	< LOQ	0.40	0.200	pass		Hexythiazox [¥]	< LOQ	1.0	0.400	pass	
Imazalil [¥]	< LOQ	0.20	0.100	pass		Imidacloprid [¥]	< LOQ	0.40	0.200	pass	
Kresoxim-methyl [¥]	< LOQ	0.40	0.200	pass		Malathion [¥]	< LOQ	0.20	0.100	pass	
Metalaxyl [¥]	< LOQ	0.20	0.100	pass		Methiocarb [¥]	< LOQ	0.20	0.100	pass	
Methomyl [¥]	< LOQ	0.40	0.200	pass		MGK-264 [¥]	< LOQ	0.20	0.100	pass	
Myclobutanil [¥]	< LOQ	0.20	0.100	pass		Naled [¥]	< LOQ	0.50	0.250	pass	
Oxamyl [¥]	< LOQ	1.0	0.500	pass		Paclobutrazole [¥]	< LOQ	0.40	0.200	pass	
Parathion-Methyl [¥]	< LOQ	0.20	0.200	pass		Permethrin [¥]	< LOQ	0.20	0.100	pass	
Phosmet [¥]	< LOQ	0.20	0.100	pass		Piperonyl butoxide [¥]	< LOQ	2.0	1.00	pass	
Prallethrin [¥]	< LOQ	0.20	0.200	pass		Propiconazole [¥]	< LOQ	0.40	0.200	pass	
Propoxur [¥]	< LOQ	0.20	0.100	pass		Pyrethrin I (total) [¥]	< LOQ	1.0	0.500	pass	
Pyridaben [¥]	< LOQ	0.20	0.100	pass		Spinosad [¥]	< LOQ	0.20	0.100	pass	
Spiromesifen [¥]	< LOQ	0.20	0.100	pass		Spirotetramat [¥]	< LOQ	0.20	0.100	pass	
Spiroxamine [¥]	< LOQ	0.40	0.200	pass		Tebuconazole [¥]	< LOQ	0.40	0.200	pass	
Thiacloprid [¥]	< LOQ	0.20	0.100	pass		Thiamethoxam [¥]	< LOQ	0.20	0.100	pass	
Trifloxystrobin [¥]	< LOQ	0.20	0.100	pass							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes	
Arsenic	< LOQ	0.200	mg/kg	0.0871	2208736	10/13/22	AOAC 2013.06 (mod.) ^b	pass		
Cadmium	< LOQ	0.200	mg/kg	0.0871	2208736	10/13/22	AOAC 2013.06 (mod.) ^b	pass		
Lead	< LOQ	0.500	mg/kg	0.0871	2208736	10/13/22	AOAC 2013.06 (mod.) ^b	pass		
Mercury	< LOQ	0.100	mg/kg	0.0436	2208736	10/13/22	AOAC 2013.06 (mod.) ^b	pass		



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



Report Number: 22-012186/D002.R001
Report Date: 12/16/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/10/22 10:10

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B2 [¥]	< LOQ		µg/kg	5.00	2208731	10/13/22 AOAC 2007.01 & EN 15662 (mod) ^p		
Aflatoxin B1 [¥]	< LOQ		µg/kg	5.00	2208731	10/13/22 AOAC 2007.01 & EN 15662 (mod) ^p		
Aflatoxin G1 [¥]	< LOQ		µg/kg	5.00	2208731	10/13/22 AOAC 2007.01 & EN 15662 (mod) ^p		
Aflatoxin G2 [¥]	< LOQ		µg/kg	5.00	2208731	10/13/22 AOAC 2007.01 & EN 15662 (mod) ^p		
Ochratoxin A [¥]	< LOQ	20.0	µg/kg	5.00	2208731	10/13/22 AOAC 2007.01 & EN 15662 (mod) ^p	pass	
Total Aflatoxins [¥]	0.000	20.0	µg/kg	20.0		10/14/22 AOAC 2007.01 & EN 15662 (mod) ^p	pass	



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



Report Number: 22-012186/D002.R001
Report Date: 12/16/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/10/22 10:10

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, 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.

Ⓟ = ISO/IEC 17025:2017 accredited method.

* = TNI accredited analyte.

Units of Measure

µg/g = Microgram per gram

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

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

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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



Report Number: 22-012186/D002.R001
Report Date: 12/16/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/10/22 10:10

Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2208681

Laboratory Control Sample										
Analyte	LCS	Result	Spike	Units	% Rec	Limits			Evaluation	Notes
CBDVA	2	0.114	0.103	%	110	80.0	-	120	Acceptable	
CBDV	2	0.120	0.110	%	110	80.0	-	120	Acceptable	
CBE	2	0.115	0.105	%	110	80.0	-	120	Acceptable	
CBD	1	0.0972	0.100	%	96.8	90.0	-	110	Acceptable	
CBGA	1	0.0983	0.101	%	97.7	80.0	-	120	Acceptable	
CBG	1	0.102	0.103	%	99.0	80.0	-	120	Acceptable	
CBD	1	0.102	0.103	%	98.9	90.0	-	110	Acceptable	
THCV	2	0.123	0.113	%	109	80.0	-	120	Acceptable	
d8THCV	2	0.121	0.110	%	109	80.0	-	120	Acceptable	
THCVA	2	0.111	0.101	%	110	80.0	-	120	Acceptable	
CBN	1	0.101	0.101	%	99.6	90.0	-	110	Acceptable	
exo-THC	2	0.111	0.103	%	109	80.0	-	120	Acceptable	
d9THC	1	0.104	0.104	%	100	90.0	-	110	Acceptable	
d8THC	1	0.106	0.100	%	106	90.0	-	110	Acceptable	
CBL	2	0.108	0.099	%	110	80.0	-	120	Acceptable	
d10THC	1	0.0939	0.096	%	98.1	80.0	-	120	Acceptable	
CB	2	0.120	0.108	%	111	80.0	-	120	Acceptable	
THCA	1	0.0965	0.099	%	97.0	90.0	-	110	Acceptable	
CBGA	2	0.116	0.105	%	110	80.0	-	120	Acceptable	
CBLA	2	0.0613	0.056	%	109	80.0	-	120	Acceptable	
CBT	2	0.122	0.112	%	109	80.0	-	120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBDV	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBE	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBD	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBGA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBG	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBD	<LOQ	0.0077	%	< 0.0077	Acceptable	
THCV	<LOQ	0.0077	%	< 0.0077	Acceptable	
d8THCV	<LOQ	0.0077	%	< 0.0077	Acceptable	
THCVA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBN	<LOQ	0.0077	%	< 0.0077	Acceptable	
exo-THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
d9THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
d8THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBL	<LOQ	0.0077	%	< 0.0077	Acceptable	
d10THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
CB	<LOQ	0.0077	%	< 0.0077	Acceptable	
THCA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBGA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBLA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBT	<LOQ	0.0077	%	< 0.0077	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: 22-012186/D002.R001
Report Date: 12/16/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/10/22 10:10

Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2208681								
Sample Duplicate								
Sample ID: 22-012177-0001								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBDV	0.283	0.289	0.0077	%	1.98	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBG	1.23	1.23	0.0077	%	0.136	< 20	Acceptable	
CBD	58.2	57.6	0.0077	%	1.15	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBN	0.356	0.355	0.0077	%	0.517	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
d9THC	1.15	1.15	0.0077	%	0.135	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBC	2.32	2.19	0.0077	%	5.62	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBT	0.631	0.626	0.0077	%	0.829	< 20	Acceptable	

Abbreviations

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

Units of Measure:



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



Report Number: 22-012186/D002.R001
Report Date: 12/16/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/10/22 10:10

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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2208702					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Re:	Limits	Notes
Propane	ND	< 200		401	572	µg/g	70.1	60 - 120	
Isobutane	ND	< 200		500	731	µg/g	68.4	60 - 120	
Butane	ND	< 200		484	731	µg/g	66.2	60 - 120	
2,2-Dimethylpropane	ND	< 200		736	936	µg/g	78.6	60 - 120	
Methanol	ND	< 200		1380	1650	µg/g	83.6	60 - 120	
Ethylene Oxide	ND	< 30		40.3	56.2	µg/g	71.7	60 - 120	
2-Methylbutane	ND	< 200		1200	1650	µg/g	72.7	60 - 120	
Pentane	ND	< 200		1210	1650	µg/g	73.3	60 - 120	
Ethanol	ND	< 200		1330	1660	µg/g	80.1	70 - 130	
Ethyl Ether	ND	< 200		1240	1630	µg/g	76.1	60 - 120	
2,2-Dimethylbutane	ND	< 30		134	189	µg/g	70.9	60 - 120	
Acetone	ND	< 200		1280	1650	µg/g	77.6	60 - 120	
2-Propanol	ND	< 200		1310	1650	µg/g	79.4	60 - 120	
Ethyl Formate	ND	< 500		1120	1610	µg/g	69.6	70 - 130	Q6
Acetonitrile	ND	< 100		405	504	µg/g	80.4	60 - 120	
Methyl Acetate	ND	< 500		1200	1630	µg/g	73.6	70 - 130	
2,3-Dimethylbutane	ND	< 30		136	174	µg/g	78.2	60 - 120	
Dichloromethane	ND	< 60		414	521	µg/g	79.5	60 - 120	
2-Methylpentane	ND	< 30		140	187	µg/g	74.9	60 - 120	
MTBE	ND	< 500		1220	1600	µg/g	76.3	70 - 130	
3-Methylpentane	ND	< 30		146	188	µg/g	77.7	60 - 120	
Hexane	ND	< 30		147	182	µg/g	80.8	60 - 120	
1-Propanol	ND	< 500		1190	1610	µg/g	73.9	70 - 130	
Methylethylketone	ND	< 500		1210	1600	µg/g	75.6	70 - 130	
Ethyl acetate	ND	< 200		1280	1630	µg/g	78.5	60 - 120	
2-Butanol	ND	< 200		1250	1630	µg/g	76.7	60 - 120	
Tetrahydrofuran	ND	< 100		377	506	µg/g	74.5	60 - 120	
Cyclohexane	ND	< 200		1220	1640	µg/g	74.4	60 - 120	
2-methyl-1-propanol	ND	< 500		1170	1620	µg/g	72.2	70 - 130	
Benzene	ND	< 1		3.71	4.93	µg/g	75.3	60 - 120	
Isopropyl Acetate	ND	< 200		1300	1640	µg/g	79.3	60 - 120	
Heptane	ND	< 200		1140	1630	µg/g	69.9	60 - 120	
1-Butanol	ND	< 500		1180	1600	µg/g	73.8	70 - 130	
Propyl Acetate	ND	< 500		1270	1620	µg/g	78.4	70 - 130	
1,4-Dioxane	ND	< 100		388	493	µg/g	78.7	60 - 120	
2-Ethoxyethanol	ND	< 30		151	171	µg/g	88.3	60 - 120	
Methylisobutylketone	ND	< 500		1260	1620	µg/g	77.8	70 - 130	
3-Methyl-1-butanol	ND	< 500		1230	1610	µg/g	76.4	70 - 130	
Ethylene Glycol	ND	< 200		388	494	µg/g	78.5	60 - 120	
Toluene	ND	< 100		387	506	µg/g	76.5	60 - 120	
Isobutyl Acetate	ND	< 500		1210	1620	µg/g	74.7	70 - 130	
1-Pentanol	ND	< 500		1170	1610	µg/g	72.7	70 - 130	
Butyl Acetate	ND	< 500		1180	1610	µg/g	73.3	70 - 130	
Ethylbenzene	ND	< 200		771	996	µg/g	77.4	60 - 120	
m,p-Xylene	ND	< 200		784	1010	µg/g	77.6	60 - 120	
o-Xylene	ND	< 200		750	979	µg/g	76.6	60 - 120	
Cumene	ND	< 30		136	188	µg/g	72.3	60 - 120	
Anisole	ND	< 500		1240	1610	µg/g	77.0	70 - 130	
DMSO	ND	< 500		1200	1600	µg/g	75.0	70 - 130	
1,2-dimethoxyethane	ND	< 50		139	190	µg/g	73.2	70 - 130	
Triethylamine	ND	< 500		1160	1610	µg/g	72.0	70 - 130	
N,N-dimethylformamide	ND	< 150		354	496	µg/g	71.4	70 - 130	
N,N-dimethylacetamide	ND	< 150		377	483	µg/g	78.1	70 - 130	
Pyridine	ND	< 50		121	167	µg/g	72.5	70 - 130	
Sulfolane	ND	< 50		120	161	µg/g	74.5	70 - 130	
1,2-Dichloroethane	ND	< 1		0.833	1	µg/g	83.3	70 - 130	
Chloroform	ND	< 1		0.826	1	µg/g	82.6	70 - 130	
Trichloroethylene	ND	< 1		0.846	1	µg/g	84.6	70 - 130	
1,1-Dichloroethane	ND	< 1		0.797	1	µg/g	79.7	70 - 130	



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



Report Number: 22-012186/D002.R001
Report Date: 12/16/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/10/22 10:10

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

QC- Sample Duplicate

Sample ID: 22-011997-0001

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	5020	5200	200 µg/g	3.5	< 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	
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
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: 22-012186/D002.R001
Report Date: 12/16/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/10/22 10:10

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: 2208761								
Method Blank			Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.880	1.000	88.0	50.0 150	
Acephate	0.000	< 0.250		0.824	1.000	82.4	60.0 120	
Acequinocyl	0.000	< 1.000		3.353	4.000	83.8	40.0 160	
Acetamiprid	0.000	< 0.100		0.368	0.400	91.9	60.0 120	
Aldicarb	0.000	< 0.200		0.717	0.800	89.7	60.0 120	
Azoxystrobin	0.000	< 0.100		0.363	0.400	90.8	60.0 120	
Bifenazate	0.000	< 0.100		0.362	0.400	90.6	60.0 120	
Bifenthrin	0.000	< 0.100		0.350	0.400	87.5	50.0 150	
Boscalid	0.000	< 0.200		0.719	0.800	89.8	60.0 120	
Carbaryl	0.000	< 0.100		0.367	0.400	91.8	60.0 120	
Carbofuran	0.000	< 0.100		0.371	0.400	92.7	60.0 120	
Chlorantraniliprole	0.000	< 0.100		0.350	0.400	87.4	60.0 120	
Chlorfenapyr	0.000	< 0.500		1.607	2.000	80.3	60.0 120	
Chlorpyrifos	0.000	< 0.100		0.368	0.400	92.0	60.0 120	
Clofentezine	0.000	< 0.100		0.357	0.400	89.2	60.0 120	
Cyfluthrin	0.000	< 0.500		1.919	2.000	95.9	50.0 150	
Cypermethrin	0.000	< 0.500		1.806	2.000	90.3	50.0 150	
Daminozide	0.000	< 0.500		1.886	2.000	94.3	60.0 120	
Diazinon	0.000	< 0.100		0.372	0.400	93.1	60.0 120	
Dichlorvos	0.000	< 0.500		1.842	2.000	92.1	60.0 120	
Dimethoate	0.000	< 0.100		0.369	0.400	92.4	60.0 120	
Ethoprophos	0.000	< 0.100		0.347	0.400	86.6	60.0 120	
Etofenprox	0.000	< 0.200		0.707	0.800	88.4	50.0 150	
Etoxazole	0.000	< 0.100		0.361	0.400	90.2	60.0 120	
Fenoxycarb	0.000	< 0.100		0.355	0.400	88.8	60.0 120	
Fenpyroximate	0.000	< 0.200		0.708	0.800	88.5	60.0 120	
Fipronil	0.000	< 0.200		0.719	0.800	89.9	60.0 120	
Flonicamid	0.000	< 0.250		0.944	1.000	94.4	60.0 120	
Fludioxonil	0.000	< 0.200		0.805	0.800	100.6	50.0 150	
Hexythiazox	0.000	< 0.250		0.893	1.000	89.3	60.0 120	
Imazalil	0.000	< 0.100		0.371	0.400	92.6	60.0 120	
Imidacloprid	0.000	< 0.200		0.727	0.800	90.8	60.0 120	
Kresoxim-methyl	0.000	< 0.200		0.749	0.800	93.7	60.0 120	
Malathion	0.000	< 0.100		0.364	0.400	91.0	60.0 120	
Metaxyl	0.000	< 0.100		0.369	0.400	92.1	60.0 120	
Methiocarb	0.000	< 0.100		0.367	0.400	91.8	60.0 120	
Methomyl	0.000	< 0.200		0.666	0.800	83.2	60.0 120	
MGK-264	0.000	< 0.100		0.364	0.400	91.1	50.0 150	
Myclobutanil	0.000	< 0.100		0.360	0.400	90.1	60.0 120	
Naled	0.000	< 0.250		0.877	1.000	87.7	50.0 150	
Oxamyl	0.000	< 0.500		1.911	2.000	95.5	60.0 120	
Paclobutrazole	0.000	< 0.200		0.715	0.800	89.4	60.0 120	
Parathion-Methyl	0.000	< 0.200		0.728	0.800	91.0	50.0 150	
Permethrin	0.000	< 0.100		0.355	0.400	88.8	50.0 150	
Phosmet	0.000	< 0.100		0.351	0.400	87.9	50.0 150	
Piperonyl butoxide	0.000	< 0.500		1.739	2.000	87.0	60.0 120	
Prallethrin	0.000	< 0.100		0.368	0.400	91.9	60.0 120	
Propiconazole	0.000	< 0.200		0.734	0.800	91.7	60.0 120	
Propoxur	0.000	< 0.100		0.374	0.400	93.5	60.0 120	
Pyrethrin (Summe)	0.000	< 0.100		0.377	0.413	91.2	60.0 120	
Pyridaben	0.000	< 0.100		0.349	0.400	87.3	50.0 150	
Spirosad	0.000	< 0.100		0.319	0.388	82.2	50.0 150	
Spiromesifen	0.000	< 0.100		0.363	0.400	90.7	60.0 120	
Spirotetramat	0.000	< 0.100		0.369	0.400	92.2	60.0 120	
Spiroxamine	0.000	< 0.200		0.732	0.800	91.4	60.0 120	
Tebuconazole	0.000	< 0.200		0.723	0.800	90.4	60.0 120	
Thiacloprid	0.000	< 0.100		0.374	0.400	93.5	60.0 120	
Thiamethoxam	0.000	< 0.100		0.359	0.400	89.8	60.0 120	
Trifloxystrobin	0.000	< 0.100		0.360	0.400	89.9	60.0 120	



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



Report Number: 22-012186/D002.R001
Report Date: 12/16/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/10/22 10:10

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: 2208761										
Matrix Spike/Matrix Spike Duplicate Recoveries Sample ID: 22-012177-0001										
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.638	0.648	1.000	1.6%	< 30	63.8%	64.8%	50 - 150	
Acephate	0.000	0.605	0.654	1.000	7.8%	< 30	60.5%	65.4%	50 - 150	
Acequinocyl	0.000	1.501	1.570	4.000	4.5%	< 30	37.5%	39.2%	50 - 150	Q
Acetamiprid	0.000	0.347	0.354	0.400	2.0%	< 30	86.8%	88.5%	50 - 150	
Aldicarb	0.000	0.669	0.718	0.800	7.1%	< 30	83.6%	89.7%	50 - 150	
Azoxystrobin	0.000	0.269	0.268	0.400	0.7%	< 30	67.3%	66.9%	50 - 150	
Bifenazate	0.000	0.300	0.319	0.400	6.2%	< 30	74.9%	79.7%	50 - 150	
Bifenthrin	0.000	0.200	0.217	0.400	8.3%	< 30	49.9%	54.2%	50 - 150	Q
Boscalid	0.069	0.683	0.645	0.800	6.4%	< 30	76.8%	72.0%	50 - 150	
Carbaryl	0.000	0.300	0.297	0.400	1.1%	< 30	74.9%	74.1%	50 - 150	
Carbofuran	0.000	0.278	0.280	0.400	0.9%	< 30	69.4%	70.0%	50 - 150	
Chlorantraniliprole	0.000	0.303	0.312	0.400	3.0%	< 30	75.7%	78.0%	50 - 150	
Chlorfenapyr	0.000	1.231	1.067	2.000	14.2%	< 30	61.5%	53.4%	50 - 150	
Chlorpyrifos	0.000	2.487	2.665	0.400	6.9%	< 30	621.8%	666.2%	50 - 150	Q
Clofentezine	0.000	0.229	0.235	0.400	2.7%	< 30	57.1%	58.7%	50 - 150	
Cyfluthrin	0.000	0.871	0.940	2.000	7.6%	< 30	43.5%	47.0%	30 - 150	
Cypermethrin	0.000	0.759	0.817	2.000	7.5%	< 30	37.9%	40.9%	50 - 150	Q
Daminozide	0.000	0.290	0.318	2.000	9.3%	< 30	14.5%	15.9%	30 - 150	Q
Diazinon	0.000	0.205	0.205	0.400	0.4%	< 30	51.3%	51.1%	50 - 150	
Dichlorvos	0.000	1.564	1.589	2.000	1.6%	< 30	78.2%	79.5%	50 - 150	
Dimethoate	0.000	0.352	0.358	0.400	1.7%	< 30	88.1%	89.6%	50 - 150	
Ethoprophos	0.000	0.250	0.250	0.400	0.2%	< 30	62.4%	62.5%	50 - 150	
Etofenprox	0.000	0.347	0.351	0.800	1.3%	< 30	43.3%	43.9%	50 - 150	Q
Etoxazole	0.000	0.275	0.271	0.400	1.6%	< 30	68.8%	67.7%	50 - 150	
Fenoxycarb	0.000	0.259	0.269	0.400	3.7%	< 30	64.7%	67.2%	50 - 150	
Fenpyroximate	0.000	0.308	0.343	0.800	10.6%	< 30	38.5%	42.8%	50 - 150	Q
Fipronil	0.000	0.519	0.550	0.800	5.7%	< 30	64.9%	68.7%	50 - 150	
Fonicamid	0.000	0.927	0.910	1.000	1.9%	< 30	92.7%	91.0%	50 - 150	
Fludioxonil	0.000	0.809	0.777	0.800	4.0%	< 30	101.1%	97.1%	50 - 150	
Hexythiazox	0.000	0.658	0.665	1.000	1.1%	< 30	65.8%	66.5%	50 - 150	
Imazalil	0.000	0.326	0.340	0.400	4.3%	< 30	81.5%	85.1%	50 - 150	
Imidacloprid	0.000	0.773	0.808	0.800	4.4%	< 30	96.6%	101.0%	50 - 150	
Kresoxim-methyl	0.000	0.477	0.486	0.800	1.8%	< 30	59.7%	60.7%	50 - 150	
Malathion	0.000	0.236	0.241	0.400	2.3%	< 30	58.9%	60.3%	50 - 150	
Metaxyl	0.000	0.275	0.284	0.400	3.3%	< 30	68.8%	71.1%	50 - 150	
Methiocarb	0.000	0.282	0.281	0.400	0.6%	< 30	70.5%	70.1%	50 - 150	
Methomyl	0.000	0.748	0.630	0.800	17.2%	< 30	93.5%	78.7%	50 - 150	
MGK-264	0.000	0.154	0.158	0.400	2.2%	< 30	38.5%	39.4%	50 - 150	Q
Myclobutanil	0.000	0.236	0.279	0.400	16.5%	< 30	59.0%	69.7%	50 - 150	
Naled	0.000	0.634	0.644	1.000	1.5%	< 30	63.4%	64.4%	50 - 150	
Oxamyl	0.000	1.904	1.702	2.000	11.2%	< 30	95.2%	85.1%	50 - 150	
Paclobutrazole	0.000	0.575	0.602	0.800	4.6%	< 30	71.8%	75.2%	50 - 150	
Parathion-Methyl	0.000	0.454	0.359	0.800	23.4%	< 30	56.7%	44.9%	30 - 150	
Permethrin	0.000	0.212	0.213	0.400	0.5%	< 30	53.0%	53.2%	50 - 150	
Phosmet	0.000	0.283	0.293	0.400	3.4%	< 30	70.7%	73.2%	50 - 150	
Piperonyl butoxide	0.000	1.325	1.377	2.000	3.8%	< 30	66.2%	68.8%	50 - 150	
Prallethrin	0.000	0.197	0.193	0.400	1.6%	< 30	49.1%	48.3%	50 - 150	Q
Propiconazole	0.000	0.622	0.634	0.800	2.0%	< 30	77.8%	79.3%	50 - 150	
Propoxur	0.000	0.297	0.298	0.400	0.3%	< 30	74.4%	74.6%	50 - 150	
Pyrethrin (Summe)	0.000	0.320	0.323	0.413	0.9%	< 30	77.5%	78.3%	50 - 150	
Pyridaben	0.000	0.226	0.231	0.400	2.4%	< 30	56.5%	57.9%	50 - 150	
Spirosad	0.000	0.230	0.230	0.388	0.1%	< 30	59.3%	59.4%	50 - 150	
Spiromesifen	0.000	0.267	0.247	0.400	7.7%	< 30	66.7%	61.8%	50 - 150	
Spirotetramat	0.000	0.506	0.525	0.400	3.7%	< 30	126.5%	131.3%	50 - 150	
Spiroxamine	0.000	0.576	0.625	0.800	8.2%	< 30	72.0%	78.2%	50 - 150	
Tebuconazole	0.000	0.601	0.649	0.800	7.7%	< 30	75.1%	81.1%	50 - 150	
Thiacloprid	0.000	0.334	0.344	0.400	3.0%	< 30	83.4%	86.0%	50 - 150	
Thiamethoxam	0.000	0.358	0.330	0.400	8.2%	< 30	89.6%	82.5%	50 - 150	
Trifloxystrobin	0.000	0.243	0.247	0.400	1.5%	< 30	60.9%	61.8%	50 - 150	



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



Report Number: 22-012186/D002.R001
Report Date: 12/16/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/10/22 10:10





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



Report Number: 22-012186/D002.R001
Report Date: 12/16/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/10/22 10:10

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.