

# **Certification of Analysis**

labservices@ionizationlabs.com 737.231.0772





Whole Organix LLC Houston, Texas 77018

# **Sample Information**

Test Date:	Dec 3, 2020, 11:28 AM
Sample / Strain Name:	WO 500 mg FS Nat
Lot #/ Batch ID:	27K20158

Sample Type:	Tincture
IL Unique ID:	ILCTS561-2

Sample Description: Clear tincture oil

Notes: Unit weight is 1 bottle = 28 grams

Analyst Name: Enrique Orci IV

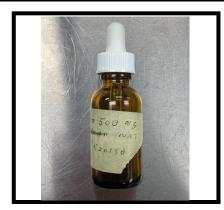
Analyst Signature: 

Analyst Signature:

Reviewer Name:	Ted Barton
Reviewer Signature:	Led Barta

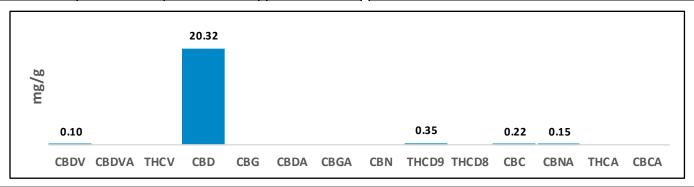
# **Cannabinoid Potency and Profile**

Cannabinoid	Resu	ılt (%)	Result (n	ng/g)	mg	g/jar
CBDV		0.01%		0.10		2.80
CBDVA	N/D		N/D		N/D	
THCV	N/D		N/D		N/D	
CBD		2.03%	2	20.32		568.96
CBG	N/D		N/D		N/D	
CBDA	N/D		N/D		N/D	
CBGA	N/D		N/D		N/D	
CBN	N/D		N/D		N/D	
THCD9		0.03%		0.35		9.80
THCD8	N/D		N/D		N/D	
CBC		0.02%		0.22		6.16
CBNA		0.01%		0.15		4.20
THCA	N/D		N/D		N/D	
CBCA	N/D		N/D		N/D	
Totals		2.10%	2	21.14		591.92



Total THC %	0.03%
Total THC mg / jar	9.80

Total CBD %	2.03%
Total CBD mg / jar	568.96



 $THC Total = \% \ of THCD9 + (\% \ of THCA \times 0.877), CBD \ Total = \% \ of CBD + (\% \ of CBDA \times 0.877), CBG \ Total = \% \ of CBG + (\% \ of CBCA \times 0.876), CBC \ Total = \% \ of CBC + (\% \ of CBCA \times 0.877), CBDV \ Total = \% \ of CBDV + (\% \ of CBDVA \times 0.867), N/D = Not Detected$ 

\*\* Bud/Flower potency results are presented on a dry weight basis

Testing results are based solely upon the samples submitted to Ionization Labs, LLC. Ionization Labs warrants that all analytical work is conducted in accordance with all applicable standard laboratory practices uisng validated methods. This report may not be reproduced without the written consent of Ionization Labs.

ISO 17025 Accredited
A2LA Certificate #: 5756.01
Texas Dept of Ag Account #: TL2020003





**Report Number:** 20-010216/D02.R00

Report Date: 09/28/2020 ORELAP#: OR100028

**Purchase Order:** 

Received: 09/23/20 10:20

**Customer: Deschutes Labs** 

Product identity: 1060418-2020-WHO-Full Spec MCT-01

Client/Metrc ID:

Laboratory ID: 20-010216-0003 Sample Date: 09/21/20 15:24

# **Summary**

Potency:

otorioy.				
Analyte	Result (%)	_		
CBD	12.1		CBD-Total	12.1%
Δ9-THC	0.211			
CBC	0.129	• CBD	THC-Total	0.211%
		• 9-THC	(Reported in pe	ercent of total sample)
		• CBC	(Nopolica III pe	room or total dample)

# **Residual Solvents:**

All analytes passing and less than LOQ.

## Pesticides:

All analytes passing and less than LOQ.

# Metals:

Less than LOQ for all analytes.





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Received: 09/23/20 10:20

**Customer: Deschutes Labs** 

Product identity: 1060418-2020-WHO-Full Spec MCT-01

Client/Metrc ID:

Sample Date: 09/21/20 15:24 Laboratory ID: 20-010216-0003 Relinquished by: Received By Mail

Temp: 22.2 °C

# **Sample Results**

Potency	Metho	<b>d</b> J AOA	C 2015	V98-6 (mod)	Batch: 2007964	<b>Analyze:</b> 9/26/20	12:29:00 AM
Analyte	As	Dry	LOQ	Notes			
	Received	weight					
CBC	0.129		0.0914				
CBC-A <sup>†</sup>	< LOQ		0.0914				
CBC-Total <sup>†</sup>	< LOQ		0.172				CBD
CBD	12.1		0.0914			(	9-THC
CBD-A	< LOQ		0.0914				CBC
CBD-Total	12.1		0.172				
CBDV <sup>†</sup>	< LOQ		0.0914				
CBDV-A <sup>†</sup>	< LOQ		0.0914				
CBDV-Total <sup>†</sup>	< LOQ		0.171				
CBG <sup>†</sup>	< LOQ		0.0914				
CBG-A <sup>†</sup>	< LOQ		0.0914				
CBG-Total	< LOQ		0.171				
CBL <sup>†</sup>	< LOQ		0.0914				
CBN	< LOQ		0.0914				
Δ8-THC <sup>†</sup>	< LOQ		0.0914				
Δ9-THC	0.211		0.0914				
THC-A	< LOQ		0.0914				
THC-Total	0.211		0.172				
THCV <sup>†</sup>	< LOQ		0.0914				
THCV-A <sup>†</sup>	< LOQ		0.0914				
THCV-Total <sup>†</sup>	< LOQ		0.171				
Total Cannabinoids†	12.4						





**Report Number:** 20-010216/D02.R00

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Received: 09/23/20 10:20

Solvents	Method	EPA502	21A			<b>Units</b> μg/g	Batch 20	07813	Analyz	<b>:e</b> 09/2	23/20 0	1:18 PM
Analyte	Result	Limits	LOQ	Status Not	tes	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-Methylbutan	е	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IF	PA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpi	ropane	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpenta	ne	< 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	9	< LOQ	50.0	30.0	pass	
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl aceta	ate	< LOQ	5000	200	pass	
Isopropylbenzene	< LOQ	70.0	30.0	pass		m,p-Xylene		< LOQ		200		
Methanol	< LOQ	3000	200	pass		Methylene chlo	oride	< LOQ	600	200	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 Bat	ch 2007914	Analy	<b>ze</b> 09/25/20 04:20 PM
Analyte	Result	Limits	LOQ Status	Notes	Analyte	Result	Limits	LOQ Status Notes
Abamectin	< LOQ	0.50	0.250 pass		Acephate	< LOQ	0.40	0.250 pass
Acequinocyl	< LOQ	2.0	1.00 pass		Acetamiprid	< LOQ	0.20	0.100 pass
Aldicarb	< LOQ	0.40	0.200 pass		Azoxystrobin	< LOQ	0.20	0.100 pass
Bifenazate	< LOQ	0.20	0.100 pass		Bifenthrin	< LOQ	0.20	0.100 pass
Boscalid	< LOQ	0.40	0.200 pass		Carbaryl	< LOQ	0.20	0.100 pass
Carbofuran	< LOQ	0.20	0.100 pass		Chlorantraniliprole	< LOQ	0.20	0.100 pass
Chlorfenapyr	< LOQ	1.0	0.500 pass		Chlorpyrifos	< LOQ	0.20	0.100 pass
Clofentezine	< LOQ	0.20	0.100 pass		Cyfluthrin	< LOQ	1.0	0.500 pass
Cypermethrin	< LOQ	1.0	0.500 pass		Daminozide	< LOQ	1.0	0.500 pass
Diazinon	< LOQ	0.20	0.100 pass		Dichlorvos	< LOQ	1.0	0.500 pass
Dimethoate	< LOQ	0.20	0.100 pass		Ethoprophos	< LOQ	0.20	0.100 pass
Etofenprox	< LOQ	0.40	0.200 pass		Etoxazole	< LOQ	0.20	0.100 pass
Fenoxycarb	< LOQ	0.20	0.100 pass		Fenpyroximate	< LOQ	0.40	0.200 pass
Fipronil	< LOQ	0.40	0.200 pass		Flonicamid	< LOQ	1.0	0.400 pass
Fludioxonil	< LOQ	0.40	0.200 pass		Hexythiazox	< LOQ	1.0	0.400 pass
Imazalil	< LOQ	0.20	0.100 pass		Imidacloprid	< LOQ	0.40	0.200 pass
Kresoxim-methyl	< LOQ	0.40	0.200 pass		Malathion	< LOQ	0.20	0.100 pass
Metalaxyl	< LOQ	0.20	0.100 pass		Methiocarb	< LOQ	0.20	0.100 pass
Methomyl	< LOQ	0.40	0.200 pass		MGK-264	< LOQ	0.20	0.100 pass
Myclobutanil	< LOQ	0.20	0.100 pass		Naled	< LOQ	0.50	0.250 pass
Oxamyl	< LOQ	1.0	0.500 pass		Paclobutrazole	< LOQ	0.40	0.200 pass
Parathion-Methyl	< LOQ	0.20	0.200 pass		Permethrin	< LOQ	0.20	0.100 pass
Phosmet	< LOQ	0.20	0.100 pass		Piperonyl butoxide	< LOQ	2.0	1.00 pass
Prallethrin	< LOQ	0.20	0.200 pass		Propiconazole	< LOQ	0.40	0.200 pass
Propoxur	< LOQ	0.20	0.100 pass		Pyrethrin I (total)	< LOQ	1.0	0.500 pass
Pyridaben	< LOQ	0.20	0.100 pass		Spinosad	< LOQ	0.20	0.100 pass
Spiromesifen	< LOQ	0.20	0.100 pass		Spirotetramat	< LOQ	0.20	0.100 pass
Spiroxamine	< LOQ	0.40	0.200 pass		Tebuconazole	< LOQ	0.40	0.200 pass
Thiacloprid	< LOQ	0.20	0.100 pass		Thiamethoxam	< LOQ	0.20	0.100 pass
Trifloxystrobin	< LOQ	0.20	0.100 pass					

Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.0353	2007930	09/25/20	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.0353	2007930	09/25/20	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.0353	2007930	09/25/20	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.0176	2007930	09/25/20	AOAC 2013.06 (mod.)	X





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**Purchase Order:** 

Received: 09/23/20 10:20

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

μg/g = Microgram per gram mg/kg = Milligram per kilogram = parts per million (ppm) % = Percentage of sample % wt =  $\mu$ g/g divided by 10,000

# Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

**Derrick Tanner** General Manager





**Report Number:** 20-010216/D02.R00

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**Purchase Order:** 

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# Hemp / Cannabis Usable / Extract **Chain of Custody Record**

Revision: 3.01 Control#: CF023 Rev 02/26/2020 Eff: 02/27/2020 ORELAP ID: OR100028

266102119
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Deschartes Labo				Analysis Requested										PO Number:											
Company: Deschutes Labs  Contact: Drew Van Roekel																									
Street: 2020 NW Industrial Park Rd																									
City: Prineville State: C	)R 7in, 9	7754																							
	Email Results: Drew@Deschuteslabs.com						bisher-an		-			-		Report to	State - M	ETRC or Other:									
Ph: (503_) 809-9798																									andard Rush * Priority Rush *
					nts									Turnarour		*Ask for availability									
Billing (if different):	Billing (if different):				Solve	Metals								Sampled I		Ask for availability									
Lab			ency	Pesticides	Residual Solvents	νν								Sample	Weight										
ID Client Sample Identification	Date	Time	Potency	Pest	Resi	Heavy								Type †	(Units)	Comments/Metrc ID									
\ 1060418-2020-TF-03-DIS-01	9/21/20	1344	V	~	V	V	_																		
~ 1060418-2020-TS-25-IS 0-01	9/21/20	1521	V	/	V	/					*														
	9/21/20	1524	1	<b>V</b>	/	/						3													
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Relinquished By:	Date	Time			R	eceived	Ву:			Da	te	Tir	me			Lab Use Only:									
Drew Van Rockel	09/21/20	1335			1	7				9	-231020		20	☐ Shippe	d Via:	or □ Client drop Yes   □ No - Temp (°C): 27.2									
www				(		7								Evidence of cooling:   Yes   No - Temp (°C):   Sample in good condition:   Yes   No - Temp (°C):   One of the condition is th											
			+-											☐ Cash	□ Check   □	CC									
													Prelog storage:			*****									

† - Sample Type Codes: Vegitation (V); Isolates (S); Extract/Concentrate (C)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to the Service associated with this COC. By signing "Relinquished by" you are agreeing to the Service associated with this COC. By signing "Relinquished by" you are agreeing to the Service associated with the COC. By signing "Relinquished by" you are agreeing to the Service associated with the COC. By signing "Relinquished by" you are agreeing to the Service associated with the COC. By signing "Relinquished by" you are agreeing to the Service associated with the COC. By signing "Relinquished by Service associated by Service associated with the COC. By signing "Relinquished by Service associated by Service associa 12423 NE Whitaker Way Portland, OR 97230 Page of www.columbialaboratories.com info@columbialaboratories.com





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**Purchase Order:** 

Received: 09/23/20 10:20



Columbia Laboratories Sample Receipt Form

Revision: 1.01 Document Control: CF015 Revised: 02/28/2020 Effective: 02/28/2020

Job Number: 20-010219   Search Name:						
Package/Cooler opened on (if different than received date/time) Date.	Time: 1020					
Received By (Initials):						
Were custody seals on outside of the package/cooler?     If YES, how many and where?	YES NA					
Were signature and date correct?	YES NO NA					
2) Were custody papers included in the package/cooler?	JES NO NA					
3) Were custody papers properly filled out (ink, sign, date)?	XES NO NA					
4) Did you sign custody papers in the appropriate place?	YES NO NA					
5) How was the package/cooler delivered?						
OPS FEDEX USPS CLIENT COURIER	OTHER:					
Tracking Number (written in or copy of shipping label):	5640193825032					
6) Was packing material used?	YES NO NA					
Peanuts Bubble Wrap Foam Paper Other:						
7) Was sufficient ice used (if appropriate)? What kind?	YES NO NA					
Blue Ice Cooler Packs Dry Ice						
8) Were all sample containers sealed in separate plastic bags?	YES NO NA					
9) Did all sample containers arrive in good condition?	VES NO NA					
10) Were all sample container labels complete?	XES NO NA					
11) Did all sample container labels and tags agree with the coc?	YES NO NA					
12) Were correct sample containers used for the tests indicated?	YES NO NA					
13) Were VOA vials checked for absence of air bubbles (note if found)?	YES NO NA					
14) Was a sufficient amount of sample sent in each sample container?	YES NO NA					
15) Temperature of the samples upon receipt (See SOP for proper temps)	27. Ze					
16) Sample location prior to login: R25 R39 R44 F44 Ambient Shelf	Cannabis Table Other:					
Explain any discrepancies:						
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**Report Number:** 20-010216/D02.R00

**Report Date:** 09/28/2020 ORELAP#: OR100028

**Purchase Order:** 

Received: 09/23/20 10:20

**Laboratory Quality Control Results** 

EPA 5021					iroi nesuit		tch ID:	200781	.3		
Method Blank					Laborato	ry Control S	ample	:			
Analyte	Result		LOQ	Notes	Result	Spike	Units	% Rec	Lin	its	Notes
Propane	ND	<	200		1020	1,190	µg/g	85.7	70 -	130	
Isobutane	ND	<	200		1250	1,520	µg/g	82.2	70 -	130	
Butane	ND	<	200		1260	1,520	µg/g	82.9	70 -	130	
2,2-Dimethylpropane	ND	<	200		1620	1,910	µg/g	84.8	70 -	130	
Methanol	ND	<	200		2730	3,240	µg/g	84.3	70 -	130	
Ethylene Oxide	ND	<	30		100	117	μg/g	85.5	70 -	130	
2-Methylbutane	ND	<	200		2760	3,220	µg/g	85.7	70 -	130	
Pentane	ND	٧	200		2730	3,210	µg/g	85.0	70 -	130	
Ethanol	ND	<	200		2590	3,220	µg/g	80.4	70 -	130	
Ethyl Ether	ND	<	200		2720	3,260	µg/g	83.4	70 -	130	
2,2-Dimethylbutane	ND	<	30		341	431	µg/g	79.1	70 -	130	
Acetone	ND	<	200		2820	3,210	µg/g	87.9	70 -	130	
2-Propanol	ND	<	200		2550	3,180	μg/g	80.2	70 -	130	
Acetonitrile	ND	٧	100		844	983	μg/g	85.9	70 -	130	
2,3-Dimethylbutane	ND	<	30		268	373	µg/g	71.8	70 -	130	
Dichloromethane	ND	<	200		840	1,010	µg/g	83.2	70 -	130	
2-Methylpentane	ND	<	30		268	330	µg/g	81.2	70 -	130	
3-Methylpentane	ND	<	30		272	342	µg/g	79.5	70 -	130	
Hexane	ND	<	30		258	321	µg/g	80.4	70 -	130	
Ethyl acetate	ND	<	200		2770	3,260	μg/g	85.0	70 -	130	
2-Butanol	ND	<	200		2490	3,210	μg/g	77.6	70 -	130	
Tetrahydrofuran	ND	<	100		773	982	μg/g	78.7	70 -	130	
Cyclohexane	ND	<	200		2630	3,210	μg/g	81.9	70 -	130	
Benzene	ND	<	1		42.4	55.4	µg/g	76.5	70 -	130	
Isopropyl Acetate	ND	<	200		2620	3,200	µg/g	81.9	70 -	130	
Heptane	ND	<	200		2840	3,210	µg/g	88.5	70 -	130	
1,4-Dioxane	ND	<	100		783	1,010	µg/g	77.5	70 -	130	
2-Ethoxyethanol	ND	<	30		488	681	µg/g	71.7	70 -	130	
Ethylene Glycol	ND	<	200		838	1,170	µg/g	71.6	70 -	130	
Toluene	ND	<	200		774	980	µg/g	79.0	70 -	130	
Ethylbenzene	ND	<	200		1530	1,970	µg/g	77.7	70 -	130	
m,p-Xylene	ND	<	200		1560	1,950	µg/g	80.0	70 -	130	
o-Xylene	ND	<	200		1580	1,940	µg/g	81.4	70 -	130	
Cumene	ND	<	30		276	336	µg/g	82.1	70 -	130	





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**Purchase Order:** 

Received: 09/23/20 10:20

QC - Sample Duplicate Sample ID: 20-009946-0004

QC - Jampie Dupilcate					Jampie ID.			
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	
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	200	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		0.0	< 20	Acceptable	l

## Abbreviations

ND - None Detected at or above MRL

RPD - Relative Percent Difference LOQ - Limit of Quantitation

\* Screening only
Q1 Quality Control result biased high. Only non detect samples reported.

μg/g- Microgram per gram or ppm mg/Kg - Milligrams per Kilogram Aw- Water Activity unit





**Report Number:** 20-010216/D02.R00

**Report Date:** 09/28/2020 ORELAP#: OR100028

**Purchase Order:** 

Received: 09/23/20 10:20

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: 2007914					
IVIETNOG BIANK				Laboratory Cont	roi Sample				
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes	
Acephate	0.026	< 0.200		0.950	1.000	95.0	68.1 - 126		
Acequinocyl	0.000	< 1.000	1	3.976	4.000	99.4	69.5 - 129		
Acetamiprid	0.000	< 0.100	1	0.389	0.400	97.2	69.0 - 128		
Aldicarb	0.000	< 0.200	1	0.832	0.800	104.0	67.7 - 126		
Abamectin	0.000	< 0.288	+	1.055	1.000	105.5	69.1 - 128	-	
Azoxystrobin	0.012	< 0.100	1	0.356	0.400	89.0	69.0 - 128	-	
Bifenazate	0.012	< 0.100	1	0.394	0.400	98.5	68.1 - 126		
Bifenthrin	0.018	< 0.100	-	0.357	0.400	89.3	71.2 - 132		
Boscalid	0.087		1			118.9			
		< 0.100	1	0.951	0.800				
Carbaryl	0.020	< 0.100		0.391	0.400	97.7	69.5 - 129		
Carbofuran	0.010	< 0.100		0.385	0.400	96.3	69.1 - 128		
Chlorantraniliprol	0.008	< 0.100	1	0.328	0.400	82.0	69.7 - 129		
Chlorfenapyr	0.000	< 1.000		2.104	2.000	105.2	67.9 - 126		
Chlorpyrifos	0.025	< 0.100		0.388	0.400	96.9	68.7 - 128		
Clofentezine	0.005	< 0.100	1	0.375	0.400	93.8	67.0 - 124		
Cyfluthrin	0.138	< 1.000	1	2.072	2.000	103.6	71.3 - 132		
Cypermethrin	0.000	< 1.000	1	1.810	2.000	90.5	71.4 - 133		
Daminozide	0.047	< 1.000		1.840	2.000	92.0	66.1 - 123		
Diazinon	0.009	< 0.100	1	0.386	0.400	96.5	68.3 - 127		
Dichlorvos	0.000	< 0.500	1	2.032	2.000	101.6	67.9 - 126		
Dimethoat	0.006	< 0.100	1	0.385	0.400	96.3	68.6 - 127		
Ethoprophos	0.000	< 0.100	1	0.329	0.400	82.3	68.0 - 126		
Etofenprox	0.030	< 0.100	1	0.752	0.800	94.1	68.8 - 128		
Etoxazol	0.000	< 0.100	1	0.375	0.400	93.8	68.4 - 127		
	0.000	< 0.100	1	0.391	0.400	97.8	68.8 - 128		
Fenoxycarb			1						
Fenpyroximat	0.015	< 0.100		0.783	0.800	97.9	70.3 - 131		
Fipronil	0.000	< 0.100		0.827	0.800	103.4	71.3 - 132		
Flonicamid	0.020	< 0.400		0.891	1.000	89.1	69.5 - 129		
Fludioxonil	0.000	< 0.100		0.926	0.800	115.7	69.0 - 128		
Hexythiazox	0.025	< 0.400		0.998	1.000	99.8	71.0 - 132		
mazalil	0.003	< 0.100		0.385	0.400	96.3	71.6 - 133		
Imidacloprid	0.000	< 0.200		0.706	0.800	88.3	67.9 - 126	Ī	
Kresoxim-Methyl	0.000	< 0.100		0.759	0.800	94.9	69.2 - 128	i –	
Malathion	0.014	< 0.100	1	0.375	0.400	93.7	69.0 - 128	1	
Metalaxyl	0.013	< 0.100	1	0.387	0.400	96.7	68.3 - 127		
Methiocarb	0.000	< 0.100	1	0.391	0.400	97.8	68.7 - 128		
Methomyl	0.000	< 0.200		0.768	0.800	96.0	67.6 - 126		
MGK 264	0.000	< 0.100	1	0.387	0.400	96.6	69.8 - 130	-	
Myclobutanil	0.015	< 0.100		0.383	0.400	95.7	67.8 - 126	_	
Naled	0.031	< 0.200	1	0.998	1.000	99.8	68.8 - 128	-	
Oxamyl	0.000	< 0.400	1	1.783	2.000	89.1	67.7 - 126		
			-			90.5			
Paclobutrazol	0.000	< 0.200	_	0.724	0.800	90.5	67.6 - 126 71.2 - 132		
Parathion Methyl	0.000	< 0.200	1	0.721	0.800				
Permethrin	0.002	< 0.100		0.418	0.400	104.4	70.1 - 130		
Phosmet	0.019	< 0.100		0.381	0.400	95.2	69.2 - 129		
Piperonyl butoxide	0.000	< 1.000		2.073	2.000	103.6	69.8 - 130		
Prallethrin	0.000	< 0.200		0.332	0.400	83.0	70.8 - 131		
Propiconazole	0.001	< 0.200		0.773	0.800	96.7	68.7 - 128		
Propoxur	0.003	< 0.100		0.399	0.400	99.8	67.9 - 126		
Pyrethrins	0.008	< 0.500		0.390	0.413	94.3	70.0 - 130		
Pyridaben	0.000	< 0.100	1	0.432	0.400	108.0	74.6 - 139	Ī	
Spinosad	0.000	< 0.100		0.394	0.388	101.5	75.9 - 141		
Spiromesifen	0.004	< 0.100	1	0.394	0.400	98.4	69.1 - 128	i –	
Spirotetramat	0.000	< 0.100	1	0.391	0.400	97.7	69.0 - 128		
Spiroxamine	0.021	< 0.100	1	0.762	0.800	95.2	68.9 - 128	-	
Tebuconazol	0.021	< 0.200	1	0.771	0.800	96.3	68.3 - 127	-	
Thiacloprid	0.028	< 0.100	1	0.771	0.400	93.7	68.3 - 127		
			-						
Thiamethoxam	0.000	< 0.100	1	0.371	0.400	92.7	68.0 - 126		
Trifloxystrobin	0.002	< 0.100	1	0.394	0.400	98.6	69.4 - 129	i	





**Report Number:** 20-010216/D02.R00

**Report Date:** 09/28/2020 ORELAP#: OR100028

**Purchase Order:** 

Received: 09/23/20 10:20

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

# **Laboratory Pesticide Quality Control Results**

OAC 2007.1 & EN 15662 Units: mg/Kg Batch ID: 2007914										
Matrix Spike/Matrix Spike				7.00/120		1000000000		20-009946-0		est to const
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit		MSD % Rec	Limits	Notes
Acephate	0.024	0.923	0.926	1.000	0.4	< 30	89.9	90.2	50 - 150	
Acequinocyl	0.000	3.884	3.383	4.000	13.8	< 30	97.1	84.6	50 - 150	
Acetamiprid	0.000	0.368	0.370	0.400	0.5	< 30	91.9	92.4	50 - 150	
Aldicarb	0.000	0.761	0.718	0.800	5.7	< 30	95.1	89.8	50 - 150	
Abamectin	0.000	1.524	1.656	1.000	8.3	< 30	152.4	165.6	50 - 150	Q1
Azoxystrobin	0.012	0.447	0.433	0.400	3.2	< 30	108.8	105.2	50 - 150	
Bifenazate	0.016	0.372	0.390	0.400	4.5	< 30	89.1	93.4	50 - 150	ĺ
Bifenthrin	0.000	0.676	1.212	0.400	56.9	< 30	168.9	303.1	50 - 150	R,Q1
Boscalid	0.063	0.838	0.777	0.800	7.5	< 30	96.8	89.2	50 - 150	
Carbaryl	0.019	0.384	0.384	0.400	0.0	< 30	91.3	91.2	50 - 150	
Carbofuran	0.009	0.372	0.374	0.400	0.4	< 30	90.8	91.1	50 - 150	
Chlorantraniliprol	0.008	0.400	0.398	0.400	0.3	< 30	98.0	97.7	50 - 150	
Chlorfenapyr	0.000	2.043	2.059	2.000	0.7	< 30	102.2	102.9	50 - 150	
Chlorpyrifos	0.007	0.479	0.459	0.400	4.3	< 30	118.1	113.0	50 - 150	-
Clofentezine	0.004	0.412	0.412	0.400	0.2	< 30	101.9	102.1	50 - 150	
Cyfluthrin	0.068	3.246	3.138	2.000	3.4	< 30	158.9	153.5	30 - 150	Q1
Cypermethrin	0.000	1.707	1.776	2.000	3.9	< 30	85.4	88.8	50 - 150	- 41
Daminozide	0.018	0.574	0.601	2.000	4.7	< 30	27.8	29.1	30 - 150	Q
Diazinon	0.018	0.574	0.601	0.400	0.7	< 30	101.7	101.0	10000	ų.
Dichlorvos	0.007	1.843	1.829	2.000	0.7	< 30	92.2	91.4	50 - 150	
		0.378	0.373	0.400		< 30		91.4		1
Dimethoat	0.008				1.1		92.3		50 - 150	
Ethoprophos	0.000	0.344	0.327	0.400	5.1	< 30	86.1	81.8	50 - 150	
Etofenprox	0.085	0.837	0.878	0.800	4.8	< 30	94.0	99.1	50 - 150	
Etoxazol	0.000	0.365	0.383	0.400	5.0	< 30	91.2	95.8	50 - 150	
Fenoxycarb	0.000	0.381	0.382	0.400	0.1	< 30	95.3	95.4	50 - 150	
Fenpyroximat	0.003	0.776	0.797	0.800	2.7	< 30	96.6	99.3	50 - 150	
Fipronil	0.000	0.873	0.970	0.800	10.5	< 30	109.1	121.2	50 - 150	
Flonicamid	0.015	0.881	0.910	1.000	3.3	< 30	86.6	89.5	50 - 150	
Fludioxonil	0.000	0.648	0.816	0.800	22.9	< 30	81.0	101.9	50 - 150	
Hexythiazox	0.000	1.535	1.558	1.000	1.5	< 30	153.5	155.8	50 - 150	Q1
Imazalil	0.003	0.360	0.397	0.400	9.9	< 30	89.2	98.6	50 - 150	
Imidacloprid	0.000	0.706	0.707	0.800	0.2	< 30	88.3	88.4	50 - 150	i e
Kresoxim-Methyl	0.000	0.640	0.715	0.800	11.1	< 30	80.0	89.3	50 - 150	t
Malathion	0.010	0.408	0.417	0.400	2.2	< 30	99.5	101.7	50 - 150	
Metalaxyl	0.012	0.385	0.372	0.400	3.6	< 30	93.3	89.9	50 - 150	
Methiocarb	0.000	0.390	0.384	0.400	1.5	< 30	97.4	96.0	50 - 150	
Methomyl	0.000	0.737	0.734	0.800	0.5	< 30	92.2	91.7	50 - 150	
MGK 264	0.000	0.351	0.355	0.400	1.3	< 30	87.7	88.8	50 - 150	
Myclobutanil	0.012	0.380	0.401	0.400	5.5	< 30	92.0	97.3	50 - 150	-
Naled	0.028	0.942	0.985	1.000	4.4	< 30	91.5	95.7	50 - 150	-
Oxamyl	0.000	1.821	1.788	2.000	1.8	< 30	91.1	89.4	50 - 150	
Paclobutrazol	0.000	0.711	0.730	0.800	2.6	< 30	88.9	91.2	50 - 150	-
Parathion Methyl	0.000	0.711	0.730	0.800	6.9	< 30	93.1	99.8	30 - 150	
Permethrin	0.005	0.743	0.798	0.400	8.9	< 30	99.3	99.8	50 - 150	
Permethrin Phosmet	0.005	0.403	0.368	0.400	4.5	< 30	99.3	88.6		
						< 30	105.5	105.2	97350 773757	-
Piperonyl butoxide	0.000	2.111	2.104	2.000	0.3					
Prallethrin	0.000	0.387	0.405	0.400	4.6	< 30	96.7	101.2	50 - 150	
Propiconazole	0.000	0.825	0.833	0.800	1.1	< 30	103.1	104.2	50 - 150	
Propoxur	0.002	0.371	0.362	0.400	2.6	< 30	92.3	89.9	50 - 150	1
Pyrethrins	0.000	0.369	0.385	0.413	4.4	< 30	89.3	93.3	50 - 150	
Pyridaben	0.000	0.276	0.274	0.400	0.6	< 30	68.9	68.5	50 - 150	
Spinosad	0.000	0.450	0.459	0.388	2.0	< 30	115.9	118.2	50 - 150	
Spiromesifen	0.000	0.402	0.382	0.400	5.1	< 30	100.4	95.4	50 - 150	
Spirotetramat	0.000	0.356	0.367	0.400	3.0	< 30	88.9	91.6	50 - 150	1
Spiroxamine	0.019	0.741	0.765	0.800	3.2	< 30	90.2	93.2	50 - 150	
Tebuconazol	0.000	0.757	0.708	0.800	6.8	< 30	94.7	88.5	50 - 150	
Thiacloprid	0.000	0.377	0.367	0.400	2.8	< 30	94.3	91.7	50 - 150	
Thiamethoxam	0.000	0.333	0.349	0.400	4.7	< 30	83.2	87.2	50 - 150	
	0.001	0.420	0.436	0.400	2.6	< 30	104.6	108.8	50 - 150	1





**Report Number:** 20-010216/D02.R00

**Report Date:** 09/28/2020 ORELAP#: OR100028

**Purchase Order:** 

Received: 09/23/20 10:20

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

### **Laboratory Quality Control Results**

J AOAC 2015	5 V98-6		,		ch ID: 2007964		
Laboratory C	ontrol Sample						
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.204	0.2	%	102	85.0 - 115	Acceptable	
CBDV	0.203	0.2	%	101	85.0 - 115	Acceptable	
CBD-A	0.207	0.2	%	103	85.0 - 115	Acceptable	
CBG-A	0.201	0.2	%	100	85.0 - 115	Acceptable	
CBG	0.199	0.2	%	99.3	85.0 - 115	Acceptable	
CBD	0.217	0.2	%	108	85.0 - 115	Acceptable	
THCV	0.205	0.2	%	103	85.0 - 115	Acceptable	
THCVA	0.193	0.2	%	96.7	85.0 - 115	Acceptable	
CBN	0.205	0.2	%	102	85.0 - 115	Acceptable	
THC	0.207	0.2	%	104	85.0 - 115	Acceptable	
D8THC	0.189	0.2	%	94.4	85.0 - 115	Acceptable	
CBL	0.194	0.2	%	97.0	85.0 - 115	Acceptable	
CBC	0.202	0.2	%	101	85.0 - 115	Acceptable	
THCA	0.189	0.2	%	94.3	85.0 - 115	Acceptable	
CBCA	0.195	0.2	%	97.5	85.0 - 115	Acceptable	

## Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	<l0q< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></l0q<>	0.1	%	< 0.1	Acceptable	
CBDV	<l0q< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></l0q<>	0.1	%	< 0.1	Acceptable	
CBD-A	<l0q< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></l0q<>	0.1	%	< 0.1	Acceptable	
CBG-A	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBG	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBD	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
THCV	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
THCVA	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBN	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
THC	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
D8THC	<l0q< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></l0q<>	0.1	%	< 0.1	Acceptable	
CBL	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBC	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
THCA	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBCA	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	

## **Abbreviations**

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

# Units of Measure:

% - Percent





**Report Number:** 20-010216/D02.R00

**Report Date:** 09/28/2020 ORELAP#: OR100028

**Purchase Order:** 

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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				Bato	h ID: 2007964	ļ.				
Sample Dupli	cate			Sample ID: 20-009968-0003							
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes			
CBDV-A	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
CBDV	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
CBD-A	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
CBG-A	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
CBG	0.762	0.758	0.1	%	0.588	< 20	Acceptable				
CBD	0.114	0.106	0.1	%	7.42	< 20	Acceptable				
THCV	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
THCVA	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
CBN	0.143	0.141	0.1	%	1.84	< 20	Acceptable				
THC	14.8	14.7	0.1	%	0.414	< 20	Acceptable				
D8THC	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
CBL	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
CBC	0.389	0.396	0.1	%	1.73	< 20	Acceptable				
THCA	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
CBCA	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>&lt; 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 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





**Report Number:** 20-010216/D02.R00

Report Date: 09/28/2020 ORELAP#: OR100028

**Purchase Order:** 

Received: 09/23/20 10:20

# Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
В	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.