



20-007221/D04.R00 **Report Number: Report Date:** 07/20/2020 **ORELAP#:** OR100028 **Purchase Order: Received:** 07/13/20 10:33

Customer: Product identity: Client/Metrc ID:	Juniper Biolabs JB-7-10-2020_I 20-007221-000	SO	Sample Date:		07/10/20 09:00	
Laboratory ID:	20-007221-000	I	Sample Date:		07/10/20 09.00	
		S	Summary			
Potency:						
Analyte CBD CBDV <sup>†</sup>	<b>Result (%)</b> > 98.0 0.333		CBD-Total	> 98.0%		
CBDV	0.333					<loq< th=""></loq<>
				• CBDV	(Reported in perce	ent of total sample)
Residual Solvents	:	-				
Analyte	Result (µg/g)	Limits Status (µg/g)	i			
n-Heptane	347	5000 pass				
Pesticides:						
All analytes passing	and less than LOQ.					
Metals:						
Less than LOQ for a	ll analytes.					
Microbiology:						
Less than LOQ for a	ll analytes.					

Page 1 of 14 <u>www.columbialaboratories.com</u> Page 1 of 14 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.





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Report Date:	07/20/2020
ORELAP#:	OR100028
Purchase Order:	
Received:	07/13/20 10:33

Customer:	Juniper Biolabs 16855 Reed Rd. La Pine Oregon 97739 United States
Product identity:	JB-7-10-2020_ISO
Client/Metrc ID:	
Sample Date:	07/10/20 09:00
Laboratory ID:	20-007221-0001
Relinquished by:	UPS
Temp:	20.2 °C

# **Sample Results**

Potency	Method J	AOAC 2015	V98-6 (mod)	Batch: 200589	3 Analyze: 7/16/20 4:09:00 F	РΜ
Analyte	As Dry	y LOQ	Notes			
	Received we	ight				
CBC	< LOQ	0.0864				
CBC-A <sup>†</sup>	< LOQ	0.0864				
CBC-Total <sup>†</sup>	< LOQ	0.162				
CBD	> 98.0	0.864				CBD CBDV
CBD-A	< LOQ	0.0864				CDDV
CBD-Total	> 98.0	0.940				
CBDV <sup>†</sup>	0.333	0.0864				
CBDV-A <sup>†</sup>	< LOQ	0.0864				
CBDV-Total <sup>†</sup>	0.333	0.161				
CBG <sup>†</sup>	< LOQ	0.0864				
CBG-A <sup>†</sup>	< LOQ	0.0864				
CBG-Total	< LOQ	0.161				
CBL <sup>†</sup>	< LOQ	0.0864				
CBN	< LOQ	0.0864				
$\Delta 8$ -THC <sup>†</sup>	< LOQ	0.0864				
∆9-THC	< LOQ	0.0864				
THC-A	< LOQ	0.0864				
THC-Total	< LOQ	0.162				
THCV <sup>†</sup>	< LOQ	0.0864				
THCV-A <sup>†</sup>	< LOQ	0.0864				
THCV-Total <sup>†</sup>	< LOQ	0.161				
Total Cannabinoids <sup>†</sup>	> 98.0					
Microbiology						
Analyte	Result	Limits	Units LOQ	Batch	Analyze Method Notes	

wicrobiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2005724	07/15/20	AOAC 991.14 (Petrifilm)	Х
Total Coliforms	< LOQ		cfu/g	10	2005724	07/15/20	AOAC 991.14 (Petrifilm)	Х
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2005725	07/15/20	AOAC 2014.05 (RAPID)	Х
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2005725	07/15/20	AOAC 2014.05 (RAPID)	X

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Method EPA5021A

Solvents

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



**Units** µg/g

Batch 2

Report N	lumber:	20-007221/D04.R0	0									
Report D	ate:	07/20/2020										
ORELAP	#:	OR100028										
Purchase	Purchase Order:											
Received	:	07/13/20 10:33										
2005830	Analyz	<b>e</b> 07/16/20 11:13 AM										
Result	Limits	LOQ Status Notes										
< LOQ	5000	200 pass										
< LOQ		200										
< LOQ	5000	200 pass										

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	30.0	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	200	pass	
Methylpropane	< LOQ		200			n-Butane	< LOQ		200		
n-Heptane	347	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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Report Number	: 20-007221/D04.R00
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ORELAP#:	OR100028
Purchase Order	:
Received:	07/13/20 10:33
05804 <b>Analy</b>	ze 07/15/20 01:49 PM

Pesticides I		IOAC 2	007.01 & EN	15662 (mod)	Units mg/kg Batch 200	05804	Anaiyz	e 07/15/20 01:49 PM
Analyte I	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 0.0387 2005872 07/16/20 AOAC 2013.06 (mod.) Х mg/kg Cadmium < LOQ mg/kg 0.0387 2005872 07/16/20 AOAC 2013.06 (mod.) Х Lead < LOQ mg/kg 0.0387 2005872 07/16/20 AOAC 2013.06 (mod.) Х < LOQ 0.0194 2005872 07/16/20 AOAC 2013.06 (mod.) Х Mercury mg/kg

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Purchase Order:								
Received:	07/13/20 10:33							

Mycotoxins								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aflatoxin B1 <sup>†</sup>	< LOQ		µg/kg	5.00	2005839	07/16/20	AOAC 2007.01 & EN 15662	
Aflatoxin B2 <sup>†</sup>	< LOQ		µg/kg	5.00	2005839	07/16/20	AOAC 2007.01 & EN 15662	
Aflatoxin G1 <sup>†</sup>	< LOQ		µg/kg	5.00	2005839	07/16/20	AOAC 2007.01 & EN 15662	
Aflatoxin G2 <sup>†</sup>	< LOQ		µg/kg	5.00	2005839	07/16/20	AOAC 2007.01 & EN 15662	
Deoxynivalenol <sup>†</sup>	< LOQ		µg/kg	200	2005839	07/16/20	AOAC 2007.01 & EN 15662	
Fumonisin B1 <sup>†</sup>	< LOQ		µg/kg	200	2005839	07/16/20	AOAC 2007.01 & EN 15662	
Fumonisin B2 <sup>†</sup>	< LOQ		µg/kg	200	2005839	07/16/20	AOAC 2007.01 & EN 15662	
HT2-Toxin <sup>†</sup>	< LOQ		µg/kg	40.0	2005839	07/16/20	AOAC 2007.01 & EN 15662	
Nivalenol <sup>†</sup>	< LOQ		µg/kg	400	2005839	07/16/20	AOAC 2007.01 & EN 15662	
Ochratoxin A <sup>†</sup>	< LOQ		µg/kg	5.00	2005839	07/16/20	AOAC 2007.01 & EN 15662	
Ochratoxin B <sup>†</sup>	< LOQ		µg/kg	2.00	2005839	07/16/20	AOAC 2007.01 & EN 15662	
T2-Toxin <sup>†</sup>	< LOQ		µg/kg	20.0	2005839	07/16/20	AOAC 2007.01 & EN 15662	
Zearalenone <sup>†</sup>	< LOQ		µg/kg	200	2005839	07/16/20	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.

<sup>†</sup> = Analyte not NELAP accredited.

## Units of Measure

cfu/g = Colony forming units per gram µg/g = Microgram per gram  $\mu$ g/kg = Micrograms per kilogram = parts per billion (ppb) 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

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LABOF	Columbia LABORATORIES (A Tentamus Company					12423 NE Whitaker Way Portland, OR 97230 503-254-1794									Report Number: Report Date: ORELAP#: Purchase Order: Received:			20-007221/D04.R00 07/20/2020 OR100028 07/13/20 10:33
12423 NE Whitaker Way Por			p.503-	254-17	94	Ca	nnal	ois C	JUNI	PERBIO	C		20-007;	221		(geoderic	ORELAF	PIXIS Labs
Company: Juniper I Contact: Steve StadImann Address: 16855 Reed Rd., La Email: steves@junipert Phone: 541-213-1805 Processor's / AG-R10 License:	Pine, OR Diolabs. Fax:	8, 97739 .com	nds	llti-Residue – 379 compounds		/ents	ty		Junipe	r Biola ploy pue	Micro: E.Coli and Total Coliform	S				dor; Plea e report to	se send a o MOC.	Purchase Order Number: Project Number: Project Name: Report Instructions: Send to State - METRC Email Final Results: Fax Final Results Cash/Check/CC/Net 30 Other:
Field ID	Date, Colle	/Time ected	Pesticides – (	Pesticide Multi-Residue	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E.Coli	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	s Comments/Metrc ID
JB-7-10-2020_ISO 2 JB-6-30-2020_ISO	7/1920				X X	X X				X X		X X	X X		Isolate Isolate	10g		
										2								
Collected By:	Reling	quished	By:			Date	:	Time	e	Rece	eived by	r:			Date	e   T		b Use Only:
<ul> <li>✓ Standard (5 day)</li> <li>□ Rush (3-4 day) (1.5x Standard)</li> <li>□ Priority Rush (2 day) (2x Standard)</li> </ul>	Stee 	me 8	ed			7/101	2020	11:00	AiM		Jin	NV			7-13	5-20 1(	D'23 Or Pr Sa Te Sh	ient Alias: der Number: oper Container mple Condition mperature: こしここ ipped Via: し アン idence of cooling: ニNo

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Revision: 2.00 Control#: CF023 Effective 04/29/2019 Revised 04/29/2019

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Page 7 of 14 <u>www.columbialaboratories.com</u> Page 7 of 14 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Ć	Columbia LABORATORIES A Tentamus Company	12423 NE Whi Portland, OF 503-254-	8 97230	Report Number: Report Date: ORELAP#: Purchase Order: Received:	20-007221/D04.R00 07/20/2020 OR100028 07/13/20 10:33
1			and a provide a second		
a cash		Columbia Laboratories Sample Receipt Form	Revision: 1.01 Document Revised: 02/28/2020 Effect		
				5	
Job	Number: 20-007221	Search Name:	Juniper		
		1/12			
Paci	kage/Cooler opened on (if different than receive	d date/time) Date:	rime: [0:3>		
Rec	eived By (Initials):				
1)	Were custody seals on outside of the package/ If YES, how many and where?	pooler?	YES NO MA		
	Were signature and date correct?		YES NO NA		
2)	Were oustody papers included in the package/o	ooler?	YES NO NA		
3)	Were custody papers properly filled out (ink, si	gn, date)?	YES NO NA		
<del></del>	Did you sign custody papers in the appropriate	place?	YES NO NA		
5)	How was the package/cooler delivered?				
C	UPS FEDEX USPS	CLIENT COURIER	OTHER:		
	Tracking Number (written in or copy of shipp	ping label): <u>12 73</u>	1 3/2 01	1775	
6)	Was packing material used?		YES NO NA	1006	
	Peznuts Bubble Wrap Foam Paper	Other:			
7)	Was sufficient ice used (if appropriate)? What kind?		YES NO NA		
	Blue Ice Ice Cooler Packs	Dry Ice			
8)	Were all sample containers sealed in separate p	plastic bags?	YES NO NA		
. 9)	Did all sample containers arrive in good condi	tion?	VES NO NA		
10)	Were all sample container labels complete?	,	YES NO NA		
11)	) Did all sample container labels and tags agree	with the coo?	YES NO NA		
12)	) Were correct sample containers used for the te	ests indicated?		IV	
	) Were VOA vials checked for absence of air b		YES NO NA	1V 7-13-20	
	) Was a sufficient amount of sample sent in eac		YES NO NA		
	) Temperature of the samples upon receipt (See		70.7		
	) Sample location prior to login: R25 R39	R44 F44 Ambient Sheli	Cannahis Table Other:		
	xplain any discrepancies:		Canterns Table Culler: _		
Pa	ageof		1		

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Purchase Order:	
Received:	07/13/20 10:33

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

AOAC 2007.1 & EN 15662		Units	: mg/Kg			Ba	tch ID: 200580	4
vietnod Blank			Laboratory Cont				1.94	
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	0.000	< 0.200		1.019	1.000	101.9	69.4 - 126	ļ
Acequinocyl	0.000	< 1.000	L	3.778	4.000	94.4	79.5 - 122	I
Acetamiprid	0.000	< 0.100	L	0.409	0.400	102.4	82.9 - 117	ļ
Aldicarb	0.000	< 0.200		0.822	0.800	102.8	78.8 - 121	L
Abamectin	0.000	< 0.288	1	1.097	1.000	109.7	72.2 - 129	L
Azoxystrobin	0.008	< 0.100		0.399	0.400	99.8	72.9 - 127	
Bifenazate	0.000	< 0.100		0.401	0.400	100.3	77.5 - 120	
Bifenthrin	0.000	< 0.100	1	0.416	0.400	104.0	77.9 - 123	1
Boscalid	0.000	< 0.100		0.712	0.800	89.0	72.3 - 127	
Carbaryl	0.000	< 0.100	1	0.402	0.400	100.5	80.5 - 119	
Carbofuran	0.000	< 0.100	1	0.403	0.400	100.6	82.6 - 118	1
Chlorantraniliprol	0.000	< 0.100	1	0.372	0.400	93.0	73.7 - 131	Î.
Chlorfenapyr	0.000	< 1.000	1	2.061	2.000	103.0	68.6 - 127	1
Chlorpyrifos	0.001	< 0.100	1	0.386	0.400	96.5	73.8 - 118	1
Clofentezine	0.000	< 0.100	1	0.398	0.400	99.5	67.9 - 126	1
Cyfluthrin	0.000	< 1.000	1	2.037	2.000	101.9	72.4 - 132	1
Cypermethrin	0.008	< 1.000	1	2.241	2.000	112.0	80.9 - 122	1
Daminozide	0.000	< 1.000	1	1.935	2.000	96.8	74.0 - 122	1
Diazinon	0.000	< 0.100	1	0.406	0.400	101.4	78.6 - 119	1
Dichlorvos	0.000	< 0.500	-	2.029	2.000	101.4	78.3 - 117	-
Dimethoat	0.000	< 0.100	+	0.408	0.400	101.4	80.6 - 118	+
thoprophos	0.000	< 0.100	+	0.398	0.400	99.6	80.8 - 118	-
Etofenprox	0.000	< 0.100		0.398	0.400	99.0	82.0 - 117	
toxazol	0.000	< 0.100		0.379	0.400	94.7	77.2 - 121	I
	0.001	< 0.100	<u> </u>	0.379	0.400	105.1	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	-
enoxycarb			1					I
enpyroximat	0.000	< 0.100		0.789	0.800	98.7	82.6 - 117	L
ipronil	0.017	< 0.100	1	0.803	0.800	100.3	79.8 - 122	1
lonicamid	0.000	< 0.400	1	1.075	1.000	107.5	77.7 - 123	L
ludioxonil	0.000	< 0.100	Į	0.803	0.800	100.4	71.4 - 133	ļ
Hexythiazox	0.000	< 0.400		1.032	1.000	103.2	82.2 - 119	1
mazalil	0.000	< 0.100	1	0.433	0.400	108.2	77.4 - 128	
midacloprid	0.000	< 0.200		0.795	0.800	99.4	76.2 - 121	
Kresoxim-Methyl	0.000	< 0.100	1	0.794	0.800	99.3	75.0 - 126	1
Malathion	0.003	< 0.100	1	0.399	0.400	99.8	77.0 - 121	1
Vletalaxyl	0.000	< 0.100	1	0.408	0.400	102.1	75.5 - 123	1
Vethiocarb	0.009	< 0.100	1	0.384	0.400	96.0	78.4 - 123	1
Vethomyl	0.000	< 0.200	I	0.814	0.800	101.7	73.1 - 125	1
VIGK 264	0.000	< 0.100	1	0.416	0.400	104.0	81.3 - 121	1
Vyclobutanil	0.000	< 0.100	1	0.385	0.400	96.2	75.8 - 122	1
Valed	0.000	< 0.200	1	0.997	1.000	99.7	74.6 - 124	1
Dxamyl	0.000	< 0.400	1	2.065	2.000	103.2	73.6 - 126	1
Paclobutrazol	0.000	< 0.200	1	0.821	0.800	102.7	78.1 - 120	1
Parathion Methyl	0.000	< 0.200	1	1.051	0.800	131.4	71.3 - 132	1
Permethrin	0.012	< 0.100	+	0.408	0.400	102.0	79.3 - 120	ł
Phosmet	0.000	< 0.100	+	0.408	0.400	102.8	78.4 - 121	1
Piperonyl butoxide	0.000	< 1.000	+	2.005	2.000	102.8	83.8 - 122	
Prallethrin	0.000	< 0.200	+	0.417	0.400	100.3	70.8 - 131	-
Propiconazole	0.001	< 0.200		0.417	0.400	104.5	80.2 - 118	
ropiconazole	0.000	< 0.200		0.393	0.400	98.3	82.1 - 114	-
	0.000	< 0.100		0.393	0.400	98.3	78.1 - 114	-
yrethrins								-
yridaben	0.000	< 0.100		0.540	0.400	135.0	79.7 - 131	Q
pinosad	0.000	< 0.100	1	0.412	0.388	106.1	76.6 - 135	
piromesifen	0.000	< 0.100	-	0.386	0.400	96.4	70.0 - 130	
pirotetramat	0.000	< 0.100		0.401	0.400	100.2	80.3 - 119	
piroxamine	0.000	< 0.100		0.808	0.800	101.1	77.3 - 122	
ebuconazol	0.000	< 0.200	1	0.846	0.800	105.8	79.0 - 121	1
hiacloprid	0.000	< 0.100		0.401	0.400	100.2	77.5 - 121	1
Thiamethoxam	0.000	< 0.100	1	0.408	0.400	102.1	70.5 - 130	1
Trifloxystrobin	0.002	< 0.100	1	0.406	0.400	101.5	81.8 - 118	1

Page 9 of 14 <u>www.columbialaboratories.com</u> Page 9 of 14 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.





Report Number:	20-007221/D04.R00
Report Date:	07/20/2020
ORELAP#:	OR100028
Purchase Order:	
Received:	07/13/20 10:33

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

	Laboratory Pesticide Quality Control Results Units: mg/Kg Batch ID: 2005804												
AOAC 2007.1 & EN 15662			Units:	mg/Kg				Batch ID: 2005804					
Matrix Spike/Matrix Spike D								20-006965-0					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes			
Acephate	0.000	1.056	1.048	1.000	0.8	< 30	105.6	104.8	50 - 150	1			
Acequinocyl	0.000	4.202	4.780	4.000	12.9	< 30	105.0	119.5	50 - 150				
Acetamiprid	0.000	0.415	0.408	0.400	1.6	< 30	103.7	102.1	50 - 150	1			
Aldicarb	0.000	0.851	0.824	0.800	3.2	< 30	106.3	103.0	50 - 150				
Abamectin	0.024	1.384	1.369	1.000	1.1	< 30	136.0	134.5	50 - 150				
Azoxystrobin	0.007	0.413	0.424	0.400	2.5	< 30	101.5	104.1	50 - 150				
Bifenazate	0.000	0.434	0.399	0.400	8.4	< 30	108.4	99.7	50 - 150	1			
Bifenthrin	0.000	0.655	0.650	0.400	0.8	< 30	163.8	162.4	50 - 150	Q1			
Boscalid	0.000	0.791	0.805	0.800	1.7	< 30	98.9	100.6	50 - 150	4.			
Carbaryl	0.000	0.416	0.430	0.400	3.3	< 30	104.1	107.6	50 - 150	<u> </u>			
Carbofuran	0.000	0.410	0.430	0.400	2.2	< 30	104.1	107.0	50 - 150				
Chlorantraniliprol	0.000	0.429	0.438	0.400	5.5	< 30	98.0	92.7	50 - 150	ļ			
Chlorfenapyr	0.000	2.693	2.486	2.000	8.0	< 30	134.6	124.3	50 - 150				
Chlorpyrifos	0.000	0.076	0.071	0.400	6.2	< 30	18.9	17.8	50 - 150	Q			
Clofentezine	0.000	0.486	0.481	0.400	0.9	< 30	121.4	120.4	50 - 150	L			
Cyfluthrin	0.000	3.612	3.621	2.000	0.3	< 30	180.6	181.1	30 - 150	Q1			
Cypermethrin	0.000	3.247	3.118	2.000	4.0	< 30	162.4	155.9	50 - 150	Q1			
Daminozide	0.000	2.170	2.175	2.000	0.2	< 30	108.5	108.8	30 - 150				
Diazinon	0.000	0.463	0.426	0.400	8.4	< 30	115.8	106.5	50 - 150				
Dichlorvos	0.000	2.112	2.180	2.000	3.2	< 30	105.6	109.0	50 - 150	1			
Dimethoat	0.000	0.412	0.408	0.400	1.0	< 30	103.1	102.1	50 - 150				
Ethoprophos	0.000	0.409	0.386	0.400	5.8	< 30	102.2	96.4	50 - 150				
Etofenprox	0.000	0.894	0.881	0.800	1.5	< 30	111.7	110.1	50 - 150				
Etoxazol	0.000	0.459	0.454	0.400	1.1	< 30	114.7	113.4	50 - 150				
Fenoxycarb	0.000	0.447	0.451	0.400	0.8	< 30	111.7	112.6	50 - 150				
Fenpyroximat	0.000	0.900	0.912	0.800	1.3	< 30	112.5	112.0	50 - 150				
Fipronil	0.000	1.010	0.912	0.800	9.8	< 30	112.5	114.0	50 - 150	<u> </u>			
Flonicamid	0.012	1.010	1.021	1.000	9.8	< 30	124.8	102.0	5 5 5 5 5 5 5 5 5 S				
										L			
Fludioxonil	0.000	0.748	0.750	0.800	0.3	< 30	93.5	93.8	50 - 150				
Hexythiazox	0.000	1.395	1.373	1.000	1.6	< 30	139.5	137.3	50 - 150				
Imazalil	0.000	0.391	0.414	0.400	5.9	< 30	97.6	103.5	50 - 150				
Imidacloprid	0.000	0.828	0.857	0.800	3.4	< 30	103.5	107.1	50 - 150				
Kresoxim-Methyl	0.000	0.885	0.848	0.800	4.2	< 30	110.7	106.1	50 - 150				
Malathion	0.001	0.476	0.475	0.400	0.3	< 30	118.8	118.5	50 - 150	[			
Metalaxyl	0.000	0.425	0.442	0.400	4.0	< 30	106.2	110.5	50 - 150				
Methiocarb	0.000	0.424	0.409	0.400	3.6	< 30	106.0	102.2	50 - 150				
Methomyl	0.000	0.760	0.772	0.800	1.7	< 30	94.9	96.5	50 - 150				
MGK 264	0.000	0.475	0.469	0.400	1.4	< 30	118.8	117.2	50 - 150				
Myclobutanil	0.000	0.429	0.424	0.400	1.1	< 30	107.2	106.0	50 - 150				
Naled	0.000	1.084	1.133	1.000	4.4	< 30	108.4	113.3	50 - 150				
Oxamyl	0.000	1.868	1.133	2.000	6.7	< 30	93.4	99.9	50 - 150				
Paclobutrazol	0.000	0.902	0.863	0.800	4.4	< 30	112.7	107.9	50 - 150				
Paciobutrazol Parathion Methyl	0.000	0.902	1.149	0.800	20.7	< 30	112.7	107.9	30 - 150				
										ļ			
Permethrin	0.000	0.486	0.512	0.400	5.3	< 30	121.5	128.1	50 - 150	l			
Phosmet	0.000	0.428	0.431	0.400	0.8	< 30	106.9	107.8	50 - 150	L			
Piperonyl butoxide	0.000	2.250	2.189	2.000	2.8	< 30	112.5	109.5	50 - 150				
Prallethrin	0.010	0.516	0.510	0.400	1.1	< 30	126.5	125.1	50 - 150				
Propiconazole	0.000	0.892	0.874	0.800	2.0	< 30	111.5	109.2	50 - 150				
Propoxur	0.000	0.403	0.415	0.400	2.9	< 30	100.8	103.8	50 - 150				
Pyrethrins	0.000	0.703	0.705	0.413	0.3	< 30	170.2	170.7	50 - 150	Q1			
Pyridaben	0.000	0.714	0.718	0.400	0.6	< 30	178.4	179.5	50 - 150	Q1			
Spinosad	0.000	0.399	0.392	0.388	1.9	< 30	102.9	100.9	50 - 150				
Spiromesifen	0.000	0.475	0.483	0.400	1.6	< 30	118.9	120.8	50 - 150	1			
Spirotetramat	0.000	0.395	0.377	0.400	4.7	< 30	98.8	94.2	50 - 150				
Spiroxamine	0.000	0.395	0.377	0.400	2.3	< 30	100.0	97.6	50 - 150				
Tebuconazol	0.000	0.800	0.781	0.800	1.4	< 30	100.0	108.7	50 - 150				
Thiacloprid	0.000	0.858	0.870	0.800	0.2	< 30	107.3	108.7	50 - 150				
		0.401			2.7	< 30							
Thiamethoxam	0.000	1 0.388	0.399	0.400	2.1	< 30	97.1	99.8	50 - 150	E			

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Page 10 of 14 <u>www.columbialaboratories.com</u> Page 10 of 14 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.





20-007221/D04.R00
07/20/2020
OR100028

**Received:** 

07/13/20 10:33

Revision 0.00 Control CFL-D26

Revision date:	06/03/2019	Effective	Date 06	/03/2019

Quality Control R	eport Su	mmary							LI	MS Batch ID:	2005839
Laboratory Control Sample			LCS					Method Blan	k		
Analytes	Results	Assigned	Units	%Recovery	L	.im	ts	Recovery	LOQ	Units	MB Check
HT-2-Toxin 1	15.2100	16 g	pb	95.1%	70%	-	130%	0.00	80	ppb	Acceptable
T2-Toxin 1	7.8500	8 ;	pb	98.1%	70%	-	130%	0.00	20	ppb	Acceptable
Ochratoxin A 1	1.9000	2 1	pb	95.0%	70%	-	130%	0.00	20	ppb	Acceptable
Ochratoxin B-1	0.72000	1 ;	pb	90.0%	70%	-	130%	0.00	10	ppb	Acceptable
Zearalenone (ZON) 1	81.850	80 (	pb	102.3%	70%		130%	0.00	200	ppb	Acceptable
Fumonisin B1 I	74.100	80 g	pb	92.6%	70%	-	130%	0.00	200	ppb	Acceptable
Fumonisin B2 IV	79.36	80 (	opb	99.2%	70%	-	130%	0.00	400	ppb	Acceptable
Deoxynivalenol (DON) 1	87.350	80 p	opb	109.2%	70%	-	130%	0.00	200	ppb	Acceptable
Aflatoxin B1 1	2.3800	2 1	opb	119.0%	70%	-	130%	0.00	10	ppb	Acceptable
Aflatoxin B2 1	2.3100	2 ;	pb	115.5%	70%	-	130%	0.00	10	ppb	Acceptable
Aflatoxin G1 1	2.6000	2 (	opb	130.0%	70%	-	130%	0.00	10	ppb	Acceptable
Aflatoxin G2 1	2.8400	2 ;	pb	142.0%	70%	-	130%	0.00	10	ppb	Acceptable
Nivalenol (M-H)	151.730	160 p	pb	94.8%	70%	-	130%	0.00	400	ppb	Acceptable
Nivalenol (M-H+HCOOH)-1	115.910	160 p	opb	72.4%	70%	-	130%	0.00	400	ppb	Acceptable

Matrix Spike Analysis		Nat	ive Sample:								
Analytes	MS	MSD	Sample	Assigned	ι	im	ts	Units	%Rec MS	%Rec MSD	RPD
HT-2-Toxin 1	183.6	167.3	29.2	160	50%	-	150%	ppb	96.5%	86.3%	11.2%
T2-Toxin 1	81.1	77.0	0.1	80	50%		150%	ppb	101.3%	96.1%	5.2%
Ochratoxin A 1	26.3	22.0	1.1	20	50%		150%	ppb	126.2%	104.6%	18.8%
Ochratoxin B-1	9.0	7.7	0.0	8	50%	-	150%	ppb	112.3%	96.0%	15.6%
Zearalenone (ZON) 1	729.1	773.1	0.0	800	50%	-	150%	ppb	91.1%	96.6%	5.9%
Fumonisin B1 I	974.5	903.1	0.0	800	50%	-	150%	ppb	121.8%	112.9%	7.6%
Fumonisin B2 IV	887.4	860.2	0.0	800	50%	-	150%	ppb	110.9%	107.5%	3.1%
Deoxynivalenol (DON) 1	922.0	637.5	0.0	800	50%	-	150%	ppb	115.2%	79.7%	36.5%
Aflatoxin B1 1	22.7	19.1	0.0	20	50%	-	150%	ppb	113.4%	95.3%	17.4%
Aflatoxin B2 1	22.9	19.4	0.0	20	50%	-	150%	ppb	114.4%	97.0%	16.4%
Aflatoxin G1 1	26.3	21.6	5.0	20	50%	-	150%	ppb	106.6%	83.0%	24.9%
Aflatoxin G2 1	25.9	18.5	0.0	20	50%	-	150%	ppb	129.5%	92.4%	33.4%
Nivalenol (M-H)	1177.2	1137.8	234.0	1600	50%	-	150%	ppb	58.9%	56.5%	4.3%
Nivalenol (M-H+HCOOH)-1	1285.3	1172.1	0.0	1600	50%	2	150%	ppb	80.3%	73.3%	9.2%

 $\% Recovery_{LCS} = \frac{Calculated \ Result \ (ppb)}{Assigned \ Value \ (ppb)} * 100\%$ 

000	(%Recovery <sub>MS</sub> – %Recovery <sub>MSD</sub> )
RPD <sub>MS/MSD</sub>	[(%Recovery <sub>MS</sub> + %Recovery <sub>MSD</sub> )]
	2

 $% Recovery_{MS/MSD} = \frac{Calculated Result (ppb)_{MS/MSD} - Calculated Result (ppb)_{Sample}}{Aesigned Value (nub)} * 100\%$ Assigned Value (ppb)

Definitions & Units

ppb parts per billion RPD Relative percent difference

LOQ Limit of Quantitation

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.





Report Number:	20-007221/D04.R00
Report Date:	07/20/2020
ORELAP#:	OR100028
Purchase Order:	

**Received:** 

07/13/20 10:33

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

	Laboratory Quality Control Results											
JAOAC2015	V986			Batch ID: 2005893								
Laboratory Q	ontrol Sample											
Analyte	Result		Spike	Units	% Rec	Limits	Evaluation	Notes				
CBDV-A	0.200		0.2	%	100	85.0 - 115	Acceptable					
CBDV	0.215		0.2	%	108	85.0 - 115	Acceptable					
CBD-A	0.203		0.2	%	101	85.0 - 115	Acceptable					
CBG-A	0.201		0.2	%	101	85.0 - 115	Acceptable					
CBG	0.203		0.2	%	102	85.0 - 115	Acceptable					
CBD	0.186		0.2	%	93.2	85.0 - 115	Acceptable					
THCV	0.193		0.2	%	96.5	85.0 - 115	Acceptable					
THCVA	0.193		0.2	%	96.4	85.0 - 115	Acceptable					
CBN	0.205		0.2	%	103	85.0 - 115	Acceptable					
тнс	0.208		0.2	%	104	85.0 - 115	Acceptable					
D8THC	0.183		0.2	%	91.7	85.0 - 115	Acceptable					
CBL	0.192		0.2	%	96.2	85.0 - 115	Acceptable					
CBC	0.209		0.2	%	104	85.0 - 115	Acceptable					
THCA	0.179		0.2	%	89.4	85.0 - 115	Acceptable					
CBCA	0.184		0.2	%	91.8	85.0 - 115	Acceptable					

### Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-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	
CBDV	<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-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-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	
тнс	<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	<loq< td=""><td>0.1</td><td>%</td><td>&lt; 0.1</td><td>Acceptable</td><td></td></loq<>	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

Page 12 of 14 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.





Report Number:	20-007221/D04.R00
Report Date:	07/20/2020
ORELAP#:	OR100028
Purchase Order:	
Received:	07/13/20 10:33

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

			Laboi	ratory (	Quality Co	ntrol Results		
JAOAC2015 V	Batch ID: 2005893							
Sample Duplicate			Sample ID: 20-007221-0001					
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	0.333	0.337	0.1	%	1.15	< 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	<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	>98.0	>98.0	0.1	%	NA	< 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	<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	
THC	<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	
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	<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	
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

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prior arrangements have been made.





20-007221/D04.R00 **Report Number: Report Date:** 07/20/2020 **ORELAP#:** OR100028 **Purchase Order: Received:** 07/13/20 10:33

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.			

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Page 14 of 14 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.