



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



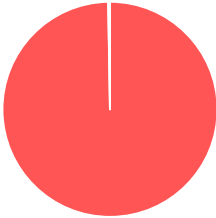
Report Number: 20-010425/D03.R00
Report Date: 10/02/2020
ORELAP#: OR100028
Purchase Order:
Received: 09/28/20 10:43

Customer: Deschutes Labs
Product identity: 1060418-2020-NT-59-ISO-01
Client/Metric ID: .
Laboratory ID: 20-010425-0001

Sample Date: 09/25/20 13:57

Summary

Potency:

Analyte	Result (%)		
CBD	> 98.0		
CBDV [†]	0.276		
		CBD-Total	> 98.0%
		THC-Total	<LOQ
		(Reported in percent of total sample)	

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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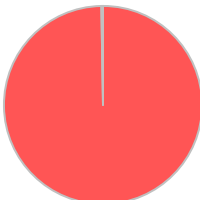


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Customer: Deschutes Labs

Product identity: 1060418-2020-NT-59-ISO-01
Client/Metric ID: .
Sample Date: 09/25/20 13:57
Laboratory ID: 20-010425-0001
Relinquished by: Received By Mail
Temp: 20 °C

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)			Batch: 2008111	Analyze: 10/1/20 7:15:00 PM
Analyte	As Received	Dry weight	LOQ	Notes	 <div><div>CBD</div><div>CBDV</div></div>
CBC	< LOQ		0.0927		
CBC-A†	< LOQ		0.0927		
CBC-Total†	< LOQ		0.174		
CBD	> 98.0		0.927		
CBD-A	< LOQ		0.0927		
CBD-Total	> 98.0		1.01		
CBDV†	0.276		0.0927		
CBDV-A†	< LOQ		0.0927		
CBDV-Total†	0.276		0.173		
CBG†	< LOQ		0.0927		
CBG-A†	< LOQ		0.0927		
CBG-Total	< LOQ		0.173		
CBL†	< LOQ		0.0927		
CBN	< LOQ		0.0927		
Δ8-THC†	< LOQ		0.0927		
Δ9-THC	< LOQ		0.0927		
THC-A	< LOQ		0.0927		
THC-Total	< LOQ		0.174		
THCV†	< LOQ		0.0927		
THCV-A†	< LOQ		0.0927		
THCV-Total†	< LOQ		0.173		
Total Cannabinoids†	> 98.0				



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Solvents						Method EPA5021A	Units µg/g	Batch 2007980	Analyze 09/29/20 09:59 AM				
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes		
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass			
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane	< LOQ		200				
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass			
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< LOQ		200				
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0				
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass			
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass			
Cyclohexane	< LOQ	3880	200	pass		Ethyl acetate	< LOQ	5000	200	pass			
Ethyl benzene	< LOQ		200			Ethyl ether	< LOQ	5000	200	pass			
Ethylene glycol	< LOQ	620	200	pass		Ethylene oxide	< LOQ	50.0	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	< LOQ	5000	200	pass		n-Hexane	< LOQ		30.0				
n-Pentane	< LOQ		200			o-Xylene	< LOQ		200				
Pentanes (sum)	< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass			
Tetrahydrofuran	< LOQ	720	100	pass		Toluene	< LOQ	890	100	pass			
Total Xylenes	< LOQ		400			Total Xylenes and Ethyl	< LOQ	2170	600	pass			



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Pesticides										
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2008049 Analyze 09/30/20 04:56 PM										
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status
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	0.0411	2008092	10/01/20	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0411	2008092	10/01/20	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.0411	2008092	10/01/20	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.0205	2008092	10/01/20	AOAC 2013.06 (mod.)	X	

Purity									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Chemical Purity	98.8		%		2008035	09/30/20	Purity by FID		

Mass-balance purity assay performed by GC-FID. The reported result is accurate within an expanded uncertainty of $\pm 0.3\%$ (w/w).



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

Abbreviations

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

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

Units of Measure

µg/g = Microgram per gram

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

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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Columbia Laboratories
Sample Receipt Form

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

Job Number: 20-010425

Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 9-28-20 Time: 10:43

Received By (Initials): JV

- 1) Were custody seals on outside of the package/cooler?
If YES, how many and where? _____ YES NO NA
- Were signature and date correct? _____ YES NO NA
- 2) Were custody papers included in the package/cooler? YES NO NA
- 3) Were custody papers properly filled out (ink, sign, date)? YES NO NA
- 4) Did you sign custody papers in the appropriate place? YES NO NA
- 5) How was the package/cooler delivered?

UPS FEDEX USPS CLIENT COURIER OTHER: _____

Tracking Number (written in or copy of shipping label): 1Z 104 E64 03 9794

- 6) Was packing material used? YES NO NA 5366
- Peanuts 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 plastic bags? YES NO NA
- 9) Did all sample containers arrive in good condition? YES NO NA
- 10) Were all sample container labels complete? YES 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) 20.0°C
- 16) Sample location prior to login: R25 R39 R44 F44 Ambient Shelf Cannabis Table Other: _____

Explain any discrepancies: _____

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Laboratory Quality Control Results									
EPA 5021				Batch ID: 2007980					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		1100	1,190	µg/g	92.4	70 - 130	
Isobutane	ND	< 200		1390	1,520	µg/g	91.4	70 - 130	
Butane	ND	< 200		1410	1,520	µg/g	92.8	70 - 130	
2,2-Dimethylpropane	ND	< 200		1720	1,910	µg/g	90.1	70 - 130	
Methanol	ND	< 200		3000	3,240	µg/g	92.6	70 - 130	
Ethylene Oxide	ND	< 30		113	117	µg/g	96.6	70 - 130	
2-Methylbutane	ND	< 200		2990	3,220	µg/g	92.9	70 - 130	
Pentane	ND	< 200		2960	3,210	µg/g	92.2	70 - 130	
Ethanol	ND	< 200		2850	3,220	µg/g	88.5	70 - 130	
Ethyl Ether	ND	< 200		3010	3,260	µg/g	92.3	70 - 130	
2,2-Dimethylbutane	ND	< 30		380	431	µg/g	88.2	70 - 130	
Acetone	ND	< 200		3040	3,210	µg/g	94.7	70 - 130	
2-Propanol	ND	< 200		2780	3,180	µg/g	87.4	70 - 130	
Acetonitrile	ND	< 100		920	983	µg/g	93.6	70 - 130	
2,3-Dimethylbutane	ND	< 30		307	373	µg/g	82.3	70 - 130	
Dichloromethane	ND	< 200		926	1,010	µg/g	91.7	70 - 130	
2-Methylpentane	ND	< 30		285	330	µg/g	86.4	70 - 130	
3-Methylpentane	ND	< 30		303	342	µg/g	88.6	70 - 130	
Hexane	ND	< 30		287	321	µg/g	89.4	70 - 130	
Ethyl acetate	ND	< 200		3000	3,260	µg/g	92.0	70 - 130	
2-Butanol	ND	< 200		2720	3,210	µg/g	84.7	70 - 130	
Tetrahydrofuran	ND	< 100		878	982	µg/g	89.4	70 - 130	
Cyclohexane	ND	< 200		2950	3,210	µg/g	91.9	70 - 130	
Benzene	ND	< 1		47.3	55.4	µg/g	85.4	70 - 130	
Isopropyl Acetate	ND	< 200		2810	3,200	µg/g	87.8	70 - 130	
Heptane	ND	< 200		3080	3,210	µg/g	96.0	70 - 130	
1,4-Dioxane	ND	< 100		871	1,010	µg/g	86.2	70 - 130	
2-Ethoxyethanol	ND	< 30		496	681	µg/g	72.8	70 - 130	
Ethylene Glycol	ND	< 200		965	1,170	µg/g	82.5	70 - 130	
Toluene	ND	< 200		867	980	µg/g	88.5	70 - 130	
Ethylbenzene	ND	< 200		1660	1,970	µg/g	84.3	70 - 130	
m,p-Xylene	ND	< 200		1700	1,950	µg/g	87.2	70 - 130	
o-Xylene	ND	< 200		1700	1,940	µg/g	87.6	70 - 130	
Cumene	ND	< 30		298	336	µg/g	88.7	70 - 130	



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QC - Sample Duplicate

Sample ID: 20-010197-0001

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	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	µg/g	0.0	< 20	Acceptable	

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.

Units of Measure:

µg/g - Microgram per gram or ppm

mg/Kg - Milligrams per Kilogram

Aw - Water Activity unit



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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: 2008049				
Method Blank			Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Accephate	0.025	< 0.200		0.935	1.000	93.5	68.1 - 126	
Acequinocyl	0.041	< 1.000		3.664	4.000	91.6	69.5 - 129	
Acetamiprid	0.000	< 0.100		0.374	0.400	93.6	69.0 - 128	
Aldicarb	0.000	< 0.200		0.705	0.800	88.1	67.8 - 126	
Abamectin	0.000	< 0.288		0.774	1.000	77.4	69.1 - 128	
Azoxystrobin	0.012	< 0.100		0.362	0.400	90.5	68.9 - 128	
Bifenazate	0.009	< 0.100		0.378	0.400	94.6	68.1 - 126	
Bifenthrin	0.019	< 0.100		0.376	0.400	94.1	71.1 - 132	
Boscalid	0.084	< 0.100		0.735	0.800	91.8	68.5 - 127	
Carbaryl	0.013	< 0.100		0.383	0.400	95.9	69.4 - 129	
Carbofuran	0.017	< 0.100		0.380	0.400	95.0	69.1 - 128	
Chlorantraniliprol	0.022	< 0.100		0.370	0.400	92.4	69.5 - 129	
Chlorfenapyr	0.000	< 1.000		1.714	2.000	85.7	68.1 - 126	
Chlorpyrifos	0.000	< 0.100		0.375	0.400	93.6	68.9 - 128	
Clofentezine	0.019	< 0.100		0.370	0.400	92.5	67.0 - 124	
Cyfluthrin	0.000	< 1.000		1.530	2.000	76.5	71.1 - 132	
Cypermethrin	0.004	< 1.000		1.794	2.000	89.7	71.3 - 132	
Daminozide	0.046	< 1.000		1.835	2.000	91.8	66.0 - 123	
Diazinon	0.008	< 0.100		0.382	0.400	95.6	68.3 - 127	
Dichlorvos	0.045	< 0.500		1.824	2.000	91.2	68.0 - 126	
Dimethoat	0.007	< 0.100		0.382	0.400	95.5	68.6 - 127	
Ethoprophos	0.000	< 0.100		0.361	0.400	90.4	67.9 - 126	
Etofenprox	0.017	< 0.100		0.752	0.800	94.0	68.9 - 128	
Etoxazol	0.000	< 0.100		0.371	0.400	92.8	68.3 - 127	
Fenoxycarb	0.009	< 0.100		0.380	0.400	94.9	68.8 - 128	
Fenpyroximat	0.008	< 0.100		0.794	0.800	99.2	70.2 - 130	
Fipronil	0.014	< 0.100		0.720	0.800	90.0	71.4 - 133	
Flonicamid	0.000	< 0.400		0.936	1.000	93.6	69.4 - 129	
Fludioxonil	0.000	< 0.100		0.914	0.800	114.3	69.2 - 128	
Hexythiazox	0.021	< 0.400		0.982	1.000	98.2	71.0 - 132	
Imazalil	0.006	< 0.100		0.408	0.400	102.1	71.6 - 133	
Imidacloprid	0.003	< 0.200		0.728	0.800	91.0	67.8 - 126	
Kresoxim-Methyl	0.034	< 0.100		0.726	0.800	90.7	69.1 - 128	
Malathion	0.008	< 0.100		0.377	0.400	94.3	68.8 - 128	
Metaxalyl	0.010	< 0.100		0.351	0.400	87.8	68.2 - 127	
Methiocarb	0.062	< 0.100		0.407	0.400	101.7	68.7 - 128	
Methomyl	0.091	< 0.200		0.790	0.800	98.7	67.7 - 126	
MGK 264	0.009	< 0.100		0.366	0.400	91.5	69.8 - 130	
Myclobutanil	0.020	< 0.100		0.389	0.400	97.3	67.7 - 126	
Naled	0.034	< 0.200		0.967	1.000	96.7	68.7 - 128	
Oxamyl	0.000	< 0.400		1.838	2.000	91.9	67.7 - 126	
Paclobutrazol	0.036	< 0.200		0.751	0.800	93.9	67.5 - 125	
Parathion Methyl	0.000	< 0.200		0.849	0.800	106.2	71.4 - 133	
Permethrin	0.023	< 0.100		0.372	0.400	93.1	70.2 - 130	
Phosmet	0.004	< 0.100		0.397	0.400	99.3	69.2 - 128	
Piperonyl butoxide	0.125	< 1.000		1.916	2.000	95.8	69.9 - 130	
Prallethrin	0.146	< 0.200		0.450	0.400	112.4	70.5 - 131	
Propiconazole	0.008	< 0.200		0.791	0.800	98.9	68.8 - 128	
Propoxur	0.017	< 0.100		0.381	0.400	95.3	68.0 - 126	
Pyrethrins	0.174	< 0.500		0.408	0.413	98.8	69.9 - 130	
Pyridaben	0.000	< 0.100		0.397	0.400	99.2	74.7 - 139	
Spinosad	0.000	< 0.100		0.410	0.388	105.6	75.8 - 141	
Spiromesifen	0.035	< 0.100		0.381	0.400	95.4	69.2 - 129	
Spirotetramat	0.009	< 0.100		0.375	0.400	93.8	69.0 - 128	
Spiroxamine	0.021	< 0.100		0.759	0.800	94.9	68.8 - 128	
Tebuconazol	0.009	< 0.200		0.733	0.800	91.6	68.3 - 127	
Thiacloprid	0.000	< 0.100		0.371	0.400	92.7	68.3 - 127	
Thiamethoxam	0.000	< 0.100		0.404	0.400	100.9	67.9 - 126	
Trifloxystrobin	0.004	< 0.100		0.394	0.400	98.6	69.3 - 129	



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Portland, OR 97230
503-254-1794



Report Number: 20-010425/D03.R00
Report Date: 10/02/2020
ORELAP#: OR100028
Purchase Order:
Received: 09/28/20 10:43

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: 2008049										
Matrix Spike/Matrix Spike Duplicate Recoveries Sample ID: 20-010263-0004										
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.019	1.001	0.890	1.000	11.8	< 30	98.2	87.0	50 - 150	
Acetamiprid	0.000	3.878	1.997	4.000	64.0	< 30	96.9	49.9	50 - 150	R,Q
Aldicarb	0.000	0.371	0.330	0.400	11.6	< 30	92.6	82.5	50 - 150	
Aldicarb	0.000	0.582	0.332	0.800	54.8	< 30	72.8	41.5	50 - 150	R,Q
Abamectin	0.000	1.499	1.403	1.000	6.6	< 30	149.9	140.3	50 - 150	
Azoxystrobin	0.010	0.494	0.472	0.400	4.5	< 30	120.9	115.5	50 - 150	
Bifenazate	0.000	0.373	0.353	0.400	5.5	< 30	93.1	88.2	50 - 150	
Bifenthrin	0.000	0.733	0.850	0.400	14.8	< 30	183.2	212.6	50 - 150	Q1
Boscalid	0.063	0.952	0.721	0.800	27.5	< 30	111.1	82.3	50 - 150	
Carbaryl	0.012	0.396	0.336	0.400	16.3	< 30	96.0	81.1	50 - 150	
Carbofuran	0.014	0.419	0.359	0.400	15.3	< 30	101.3	86.4	50 - 150	
Chlorantraniliprol	0.020	0.425	0.416	0.400	1.9	< 30	101.2	99.2	50 - 150	
Chlorfenapyr	0.000	2.047	2.119	2.000	3.4	< 30	102.3	105.9	50 - 150	
Chlorpyrifos	0.000	0.413	0.473	0.400	13.6	< 30	103.3	118.4	50 - 150	
Clofentezine	0.016	0.438	0.430	0.400	1.7	< 30	105.4	103.5	50 - 150	
Cyfluthrin	0.000	3.845	3.370	2.000	13.2	< 30	192.3	168.5	30 - 150	Q1
Cypermethrin	0.003	1.802	1.824	2.000	1.2	< 30	89.9	91.0	50 - 150	
Daminozide	0.126	1.905	1.694	2.000	11.8	< 30	89.0	78.4	30 - 150	
Diazinon	0.007	0.428	0.436	0.400	2.0	< 30	105.2	107.3	50 - 150	
Dichlorvos	0.040	1.933	1.846	2.000	4.6	< 30	94.7	90.3	50 - 150	
Dimethoat	0.007	0.365	0.332	0.400	9.4	< 30	89.6	81.3	50 - 150	
Ethoprophos	0.000	0.320	0.275	0.400	15.0	< 30	79.9	68.7	50 - 150	
Etofenprox	0.000	0.872	1.347	0.800	42.8	< 30	109.0	168.4	50 - 150	R,Q1
Etoxazol	0.002	0.398	0.428	0.400	7.4	< 30	98.8	106.5	50 - 150	
Fenoxycarb	0.000	0.397	0.373	0.400	6.3	< 30	99.2	93.1	50 - 150	
Fenpyroximat	0.000	0.763	0.781	0.800	2.3	< 30	95.4	97.7	50 - 150	
Fipronil	0.008	1.036	0.837	0.800	21.3	< 30	128.4	103.6	50 - 150	
Flonicamid	0.006	0.950	0.867	1.000	9.2	< 30	94.4	86.1	50 - 150	
Fludioxonil	0.000	0.509	0.707	0.800	32.7	< 30	63.6	88.4	50 - 150	
Hexythiazox	0.000	1.675	1.662	1.000	0.8	< 30	167.5	166.2	50 - 150	Q1
Imazalil	0.005	0.314	0.303	0.400	3.3	< 30	77.1	74.5	50 - 150	
Imidacloprid	0.002	0.771	0.716	0.800	7.3	< 30	96.1	89.3	50 - 150	
Kresoxim-Methyl	0.000	0.698	0.700	0.800	0.3	< 30	87.3	87.5	50 - 150	
Malathion	0.006	0.431	0.406	0.400	6.0	< 30	106.3	100.0	50 - 150	
Metaxalyl	0.008	0.375	0.367	0.400	2.2	< 30	91.7	89.7	50 - 150	
Methiocarb	0.049	0.375	0.310	0.400	18.8	< 30	81.4	65.3	50 - 150	
Methomyl	0.000	0.673	0.722	0.800	7.1	< 30	84.1	90.3	50 - 150	
MGK 264	0.000	0.393	0.394	0.400	0.3	< 30	98.3	98.5	50 - 150	
Myclobutanil	0.016	0.355	0.383	0.400	7.5	< 30	84.9	91.8	50 - 150	
Naled	0.029	1.020	0.933	1.000	8.8	< 30	99.1	90.4	50 - 150	
Oxamyl	0.000	1.890	1.648	2.000	13.7	< 30	94.5	82.4	50 - 150	
Paclobutrazol	0.030	0.784	0.729	0.800	7.3	< 30	94.3	87.4	50 - 150	
Parathion Methyl	0.000	0.980	0.783	0.800	22.4	< 30	122.4	97.8	30 - 150	
Permethrin	0.015	0.378	0.378	0.400	0.2	< 30	90.7	90.8	50 - 150	
Phosmet	0.007	0.393	0.334	0.400	16.2	< 30	96.5	81.8	50 - 150	
Piperonyl butoxide	0.077	2.068	2.079	2.000	0.5	< 30	99.6	100.1	50 - 150	
Prallethrin	0.064	0.564	0.616	0.400	8.8	< 30	125.1	138.1	50 - 150	
Propiconazole	0.005	0.839	0.807	0.800	3.9	< 30	104.3	100.3	50 - 150	
Propoxur	0.013	0.384	0.325	0.400	16.6	< 30	92.7	78.0	50 - 150	
Pyrethrins	0.003	0.378	0.375	0.413	0.9	< 30	90.9	90.0	50 - 150	
Pyridaben	0.004	0.260	0.258	0.400	0.7	< 30	63.9	63.4	50 - 150	
Spinosad	0.000	0.413	0.418	0.388	1.3	< 30	106.5	107.8	50 - 150	
Spiromesifen	0.037	0.398	0.391	0.400	1.8	< 30	90.5	88.7	50 - 150	
Spirotetramat	0.007	0.354	0.336	0.400	5.3	< 30	86.7	82.1	50 - 150	
Spiroxamine	0.018	0.731	0.713	0.800	2.5	< 30	89.0	86.8	50 - 150	
Tebuconazole	0.000	0.698	0.695	0.800	0.4	< 30	87.3	86.9	50 - 150	
Thiacloprid	0.000	0.374	0.343	0.400	8.5	< 30	93.4	85.8	50 - 150	
Thiamethoxam	0.000	0.372	0.337	0.400	10.0	< 30	93.1	84.3	50 - 150	
Trifloxystrobin	0.000	0.457	0.436	0.400	3.0	< 30	114.1	109.0	50 - 150	



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Report Number: 20-010425/D03.R00
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Received: 09/28/20 10:43

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2008087/2008111									
Laboratory Control Sample									
Analyte	Result		Spike	Units	% Rec	Limits		Evaluation	Notes
CBDV-A	0.196		0.2	%	98.0	85.0 - 115		Acceptable	
CBDV	0.203		0.2	%	102	85.0 - 115		Acceptable	
CBD-A	0.199		0.2	%	99.6	85.0 - 115		Acceptable	
CBG-A	0.191		0.2	%	95.3	85.0 - 115		Acceptable	
CBG	0.199		0.2	%	99.6	85.0 - 115		Acceptable	
CBD	0.219		0.2	%	110	85.0 - 115		Acceptable	
THCV	0.196		0.2	%	98.0	85.0 - 115		Acceptable	
THCVA	0.178		0.2	%	88.9	85.0 - 115		Acceptable	
CBN	0.199		0.2	%	99.3	85.0 - 115		Acceptable	
THC	0.187		0.2	%	93.5	85.0 - 115		Acceptable	
D8THC	0.196		0.2	%	97.9	85.0 - 115		Acceptable	
CBL	0.183		0.2	%	91.6	85.0 - 115		Acceptable	
CBC	0.201		0.2	%	101	85.0 - 115		Acceptable	
THCA	0.180		0.2	%	89.9	85.0 - 115		Acceptable	
CBCA	0.183		0.2	%	91.6	85.0 - 115		Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	<LOQ	0.1	%	< 0.1	Acceptable	
CBDV	<LOQ	0.1	%	< 0.1	Acceptable	
CBD-A	<LOQ	0.1	%	< 0.1	Acceptable	
CBG-A	<LOQ	0.1	%	< 0.1	Acceptable	
CBG	<LOQ	0.1	%	< 0.1	Acceptable	
CBD	<LOQ	0.1	%	< 0.1	Acceptable	
THCV	<LOQ	0.1	%	< 0.1	Acceptable	
THCVA	<LOQ	0.1	%	< 0.1	Acceptable	
CBN	<LOQ	0.1	%	< 0.1	Acceptable	
THC	<LOQ	0.1	%	< 0.1	Acceptable	
D8THC	<LOQ	0.1	%	< 0.1	Acceptable	
CBL	<LOQ	0.1	%	< 0.1	Acceptable	
CBC	<LOQ	0.1	%	< 0.1	Acceptable	
THCA	<LOQ	0.1	%	< 0.1	Acceptable	
CBCA	<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



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Report Number: 20-010425/D03.R00
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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			Batch ID: 2008087/2008111					
Sample Duplicate			Sample ID: 20-010325-0001					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	0.147	0.147	0.1	%	0.188	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBD	36.4	36.5	0.1	%	0.357	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBN	0.210	0.210	0.1	%	0.0903	< 20	Acceptable	
THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	0.294	0.294	0.1	%	0.131	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBCA	<LOQ	<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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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.