



This report cannot be used for ODA, OHA or OLCC compliance requirements.

Customer: Speedy Naturals
Product identity: 333mg Roll-on Relief 10ml
Laboratory ID: 19-006654-0003
Client/Metric ID: Lot: ROR-523191
Sample Date:

Summary

Potency:

Analyte	Result	Limits	Units	LOQ	
CBC [†]	0.179		%	0.0032	CBD-Total (%) 4.54 %
CBD	4.53		%	0.0321	
CBD-A	0.00937		%	0.0032	THC-Total (%) 0.189 %
CBDV [†]	0.0303		%	0.0032	
CBG [†]	0.150		%	0.0032	CBD-Total per 1g 45.4 mg/1g
Δ9-THC	0.189		%	0.0032	
Analyte per 1g	Result	Limits	Units	LOQ	THC-Total per 1g 1.89 mg/1g
CBC per 1g [†]	1.79		mg/1g	0.0333	
CBD per 1g	45.3		mg/1g	0.0333	
CBD-A per 1g	0.0937		mg/1g	0.0333	
CBDV per 1g [†]	0.303		mg/1g	0.0333	
CBG per 1g [†]	1.50		mg/1g	0.0333	
Δ9-THC per 1g	1.89		mg/1g	0.0333	

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.



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Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
Eucalyptol [†]	1.04	26.84	(R)-(+)-Limonene [†]	0.873	22.60
Menthol [†]	0.454	11.76	β-Caryophyllene [†]	0.304	7.88
gamma-Terpinene [†]	0.219	5.68	(-)-β-Pinene [†]	0.192	4.96
farnesene [†]	0.176	4.56	α-pinene [†]	0.120	3.11
Linalool [†]	0.0948	2.46	Humulene [†]	0.0909	2.36
(-)-α-Terpineol [†]	0.0632	1.64	(+)-Borneol [†]	0.0502	1.30
p-Cymene [†]	0.0388	1.01	Sabinene [†]	0.0374	0.97
(+)-Pulegone [†]	0.0322	0.83	β-Myrcene [†]	0.0302	0.78
α-Bisabolol [†]	0.0243	0.63	(-)-Guaiol [†]	0.0220	0.57

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Customer: Speedy Naturals

Product identity: 333mg Roll-on Relief 10ml

Client/Metric ID: Lot: ROR-523191

Sample Date:

Laboratory ID: 19-006654-0003

Relinquished by: Received By Mail

Temp: 24.1 °C

Serving Size #1: 1 g

Sample Results

Potency		Batch: 1905257					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC†	0.179		%	0.0032	06/13/19	J AOAC 2015 V98-6	
CBC-A†	< LOQ		%	0.0032	06/13/19	J AOAC 2015 V98-6	
CBC-Total†	0.179		%	0.0063	06/14/19	J AOAC 2015 V98-6	
CBD	4.53		%	0.0321	06/13/19	J AOAC 2015 V98-6	
CBD-A	0.00937		%	0.0032	06/13/19	J AOAC 2015 V98-6	
CBD-Total	4.54		%	0.0349	06/14/19	J AOAC 2015 V98-6	
CBDV†	0.0303		%	0.0032	06/13/19	J AOAC 2015 V98-6	
CBDV-A†	< LOQ		%	0.0032	06/13/19	J AOAC 2015 V98-6	
CBDV-Total†	0.0303		%	0.0062	06/14/19	J AOAC 2015 V98-6	
CBG†	0.150		%	0.0032	06/13/19	J AOAC 2015 V98-6	
CBG-A†	< LOQ		%	0.0032	06/13/19	J AOAC 2015 V98-6	
CBG-Total†	0.150		%	0.0063	06/14/19	J AOAC 2015 V98-6	
CBL†	< LOQ		%	0.0032	06/13/19	J AOAC 2015 V98-6	
CBN	< LOQ		%	0.0032	06/13/19	J AOAC 2015 V98-6	
Δ8-THC†	< LOQ		%	0.0032	06/13/19	J AOAC 2015 V98-6	
Δ9-THC	0.189		%	0.0032	06/13/19	J AOAC 2015 V98-6	
THC-A	< LOQ		%	0.0032	06/13/19	J AOAC 2015 V98-6	
THC-Total	0.189		%	0.0063	06/14/19	J AOAC 2015 V98-6	
THCV†	< LOQ		%	0.0032	06/13/19	J AOAC 2015 V98-6	
THCV-A†	< LOQ		%	0.0032	06/13/19	J AOAC 2015 V98-6	
THCV-Total†	< LOQ		%	0.0062	06/14/19	J AOAC 2015 V98-6	

Potency per 1g		Batch: 1905257					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 1g†	1.79		mg/1g	0.0333	06/14/19	J AOAC 2015 V98-6	
CBC-A per 1g†	< LOQ		mg/1g	0.0333	06/14/19	J AOAC 2015 V98-6	
CBC-Total per 1g†	1.79		mg/1g	0.0626	06/14/19	J AOAC 2015 V98-6	
CBD per 1g	45.3		mg/1g	0.0333	06/14/19	J AOAC 2015 V98-6	
CBD-A per 1g	0.0937		mg/1g	0.0333	06/14/19	J AOAC 2015 V98-6	



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Potency per 1g		Batch: 1905257						
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes	
CBD-Total per 1g	45.4		mg/1g	0.0626	06/14/19	J AOAC 2015 V98-6		
CBDV per 1g†	0.303		mg/1g	0.0333	06/14/19	J AOAC 2015 V98-6		
CBDV-A per 1g†	< LOQ		mg/1g	0.0333	06/14/19	J AOAC 2015 V98-6		
CBDV-Total per 1g†	0.303		mg/1g	0.0622	06/14/19	J AOAC 2015 V98-6		
CBG per 1g†	1.50		mg/1g	0.0333	06/14/19	J AOAC 2015 V98-6		
CBG-A per 1g†	< LOQ		mg/1g	0.0333	06/14/19	J AOAC 2015 V98-6		
CBG-Total per 1g†	1.50		mg/1g	0.0626	06/14/19	J AOAC 2015 V98-6		
CBL per 1g†	< LOQ		mg/1g	0.0333	06/14/19	J AOAC 2015 V98-6		
CBN per 1g	< LOQ		mg/1g	0.0333	06/14/19	J AOAC 2015 V98-6		
Δ8-THC per 1g†	< LOQ		mg/1g	0.0333	06/14/19	J AOAC 2015 V98-6		
Δ9-THC per 1g	1.89		mg/1g	0.0333	06/14/19	J AOAC 2015 V98-6		
THC-A per 1g	< LOQ		mg/1g	0.0333	06/14/19	J AOAC 2015 V98-6		
THC-Total per 1g	1.89		mg/1g	0.0626	06/14/19	J AOAC 2015 V98-6		
THCV per 1g†	< LOQ		mg/1g	0.0333	06/14/19	J AOAC 2015 V98-6		
THCV-A per 1g†	< LOQ		mg/1g	0.0333	06/14/19	J AOAC 2015 V98-6		
THCV-Total per 1g†	< LOQ		mg/1g	0.0622	06/14/19	J AOAC 2015 V98-6		

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1905117	06/13/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1905117	06/13/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1905116	06/13/19	AOAC 2014.05 (RAPID)	X
Yeast	< LOQ		cfu/g	10	1905116	06/13/19	AOAC 2014.05 (RAPID)	X



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Solvents					Method SOPC503					Units µg/g		Batch 1905113		Analyze 06/11/19 09:02 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								



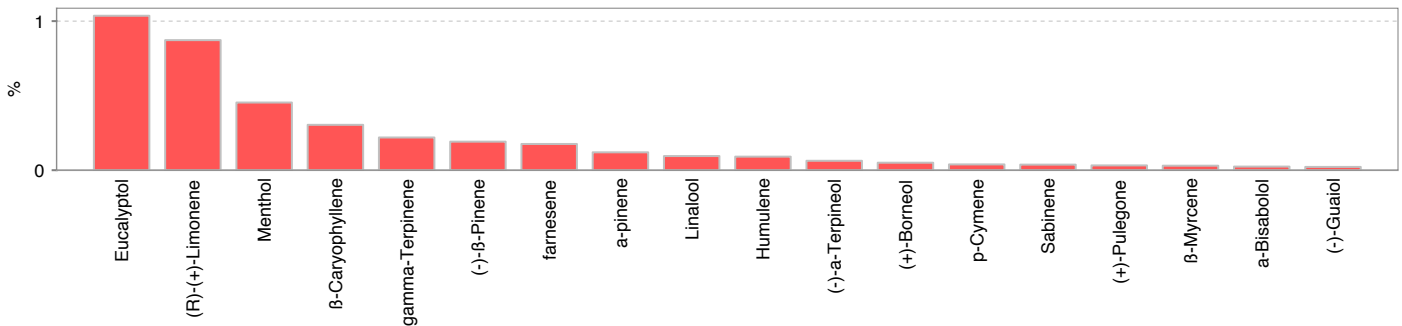
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Pesticides		Method AOAC 2007.01 & EN 15662 (mod)				Units mg/kg	Batch 1905210	Analyze 06/12/19 04:38 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.100	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 (incl.	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		Fonicamid	< LOQ	1.0	0.400	pass	
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass	
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass	
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass	
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass	
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass	
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass	
Oxamyl	< LOQ	1.0	0.500	pass		Paclobutrazole	< LOQ	0.40	0.200	pass	
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100	pass	
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00	pass	
Prallethrin	< LOQ	0.20	0.100	pass		Propiconazole	< LOQ	0.40	0.200	pass	
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< LOQ	1.0	0.500	pass	
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100	pass	
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100	pass	
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200	pass	
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100	pass	
Trifloxystrobin	< LOQ	0.20	0.100	pass							



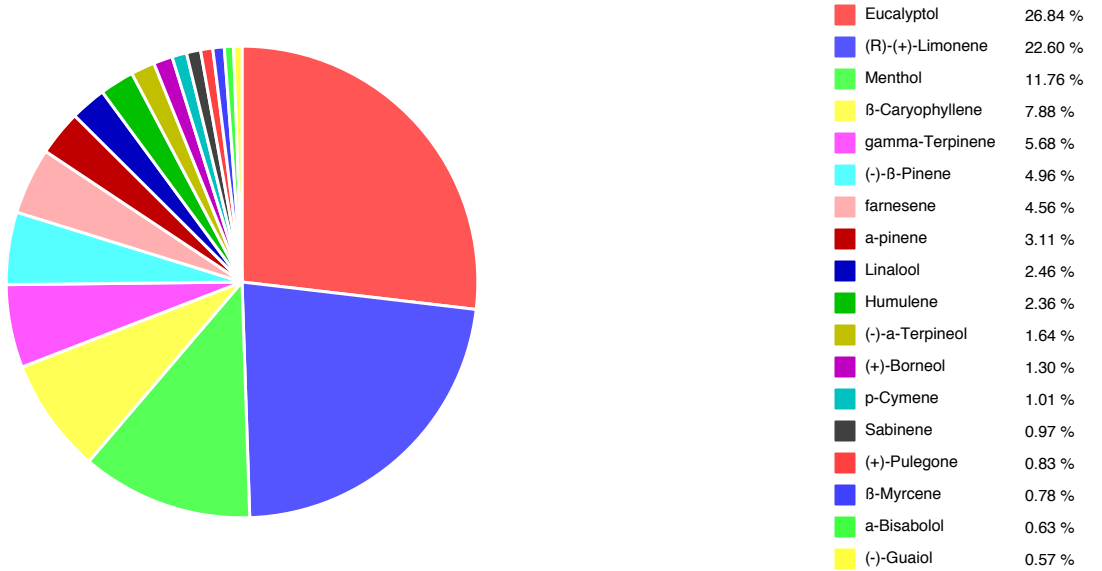
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Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 1905118	Analyze 06/13/19 08:01 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
Eucalyptol†	1.04	0.020	26.84%		(R)-(+)-Limonene†	0.873	0.020	22.60%	
Menthol†	0.454	0.020	11.76%		β-Caryophyllene†	0.304	0.020	7.88%	
gamma-Terpinene†	0.219	0.020	5.68%		(-)-β-Pinene†	0.192	0.020	4.96%	
farnesene†	0.176	0.020	4.56%		α-pinene†	0.120	0.020	3.11%	
Linalool†	0.0948	0.020	2.46%		Humulene†	0.0909	0.020	2.36%	
(-)-α-Terpineol†	0.0632	0.020	1.64%		(+)-Borneol†	0.0502	0.020	1.30%	
p-Cymene†	0.0388	0.020	1.01%		Sabinene†	0.0374	0.020	0.97%	
(+)-Pulegone†	0.0322	0.020	0.83%		β-Myrcene†	0.0302	0.020	0.78%	
α-Bisabolol†	0.0243	0.020	0.63%		(-)-Guaiol†	0.0220	0.020	0.57%	
(-)-caryophyllene oxide†	< LOQ	0.020	0.00%		(-)-Isopulegol†	< LOQ	0.020	0.00%	
(+)-Cedrol†	< LOQ	0.020	0.00%		(+)-fenchol†	< LOQ	0.020	0.00%	
(±)-Camphor†	< LOQ	0.020	0.00%		(±)-cis-Nerolidol†	< LOQ	0.020	0.00%	
(±)-fenchone†	< LOQ	0.020	0.00%		(±)-trans-Nerolidol†	< LOQ	0.020	0.00%	
α-cedrene†	< LOQ	0.020	0.00%		α-phellandrene†	< LOQ	0.020	0.00%	
α-Terpinene†	< LOQ	0.020	0.00%		Camphene†	< LOQ	0.020	0.00%	
cis-β-Ocimene†	< LOQ	0.006	0.00%		d-3-Carene†	< LOQ	0.020	0.00%	
Geraniol†	< LOQ	0.020	0.00%		Geranyl acetate†	< LOQ	0.020	0.00%	
Isoborneol†	< LOQ	0.020	0.00%		nerol†	< LOQ	0.020	0.00%	
Sabinene hydrate†	< LOQ	0.020	0.00%		Terpinolene†	< LOQ	0.020	0.00%	
trans-β-Ocimene†	< LOQ	0.013	0.00%		valencene†	< LOQ	0.020	0.00%	
Total Terpenes	3.86								





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Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.0483	1905340	06/14/19	AOAC 2013.06	X
Cadmium	< LOQ		mg/kg	0.0483	1905340	06/14/19	AOAC 2013.06	X
Lead	< LOQ		mg/kg	0.0483	1905340	06/14/19	AOAC 2013.06	X
Mercury	< LOQ		mg/kg	0.0242	1905340	06/14/19	AOAC 2013.06	X



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Abbreviations

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

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

† = Analyte not NELAP accredited.

Units of Measure

cfu/g = Colony forming units per gram

g = Gram

µg/g = Microgram per gram

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

mg/1g = Milligram per 1g

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

19-006654 ORELAP ID: OR100028

Company: Speedy Naturals		Analysis Requested											Purchase Order Number:				
Contact:		Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Notes:		Project Number:	
Address:														Total Mg per Container		Project Name:	
Email:														Please provide the Total CBD mg/g			
Phone: _____ Fax: _____														Show CBD and THC as a %		<input type="checkbox"/> Report Instructions: <input type="checkbox"/> Send to State - METRC <input type="checkbox"/> Email Final Results: <input type="checkbox"/> Fax Final Results <input type="checkbox"/> Cash/Check/CC/Net 30	
Processor's License: N/A														Please use as low as of a LOQ as possible and report in %		Other:	
Field ID	Date/Time Collected													Matrix	Weight	Serving size for edibles	Comments/Metric ID
① 25% Low-THC Concentrate				X										Tincture		mg/g	Lot: SGI-LT-25%-060719
② 1000mg Roll-On Relief 30ml		X		X	X			X	X	X	X			Topical		mg/g	Lot: ROR-523191
③ 333mg Roll-On Relief 10ml		X		X	X			X	X	X	X			Topical		mg/g	Lot: ROR-523191

Collected By:	Relinquished By: Craig	Date 06-07	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)					6/11/19	7:30	Client Alias:
<input type="checkbox"/> Rush (3-4 day) (1.5x Standard)	6-7-19						Order Number:
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Proper Container
							Sample Condition
							Temperature: 24.1
							Shipped Via:
							Evidence of cooling: <input type="checkbox"/> Yes <input type="checkbox"/> 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



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Columbia Food/Pixis Labs
Sample Receipt Form

Revision: 1.00 Document Control: CF015
Revised: 04/25/2019 Effective: 05/11/2019

Job Number: 19-006654 Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 6/11/19 Time: 7:30

Received By (Initials): mm

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): _____

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 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) 24.1 °C

16) Sample location prior to login: R25 R39 R44 F44 Ambient Shelf Cannabis Table Other: _____

Explain any discrepancies: _____

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 Pixis 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 kept a maximum of 15 days from the report date unless prior arrangements have been made.



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Laboratory Quality Control Results									
EPA 5021				Batch ID: 1905113					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		2420	2750	µg/g	88.0	70 - 130	
Isobutane	ND	< 200		2770	3570	µg/g	77.6	70 - 130	
Butane	ND	< 200		2780	3570	µg/g	77.9	70 - 130	
2,2-dimethylpropane	ND	< 200		3600	4500	µg/g	80.0	70 - 130	
Methanol	ND	< 200		2330	2390	µg/g	97.5	70 - 130	
Ethylene Oxide	ND	< 30		213	277	µg/g	76.9	70 - 130	
2-Methylbutane	ND	< 200		2340	2430	µg/g	96.3	70 - 130	
n-Pentane	ND	< 200		2270	2380	µg/g	95.4	70 - 130	
Ethanol	ND	< 200		2310	2400	µg/g	96.3	70 - 130	
Ethyl Ether	ND	< 200		2230	2430	µg/g	91.8	70 - 130	
2,2-Dimethylbutane	ND	< 30		617	620	µg/g	99.5	70 - 130	
Acetone	ND	< 200		2240	2380	µg/g	94.1	70 - 130	
Isopropyl alcohol	ND	< 200		2370	2380	µg/g	99.6	70 - 130	
Ethyl Formate	ND	< 500		2190	2440	µg/g	89.8	70 - 130	
Acetonitrile	ND	< 100		867	919	µg/g	94.3	70 - 130	
Methyl Acetate	ND	< 500		2080	2450	µg/g	84.9	70 - 130	
2,3-Dimethylbutane	ND	< 30		298	303	µg/g	98.3	70 - 130	
Dichloromethane	ND	< 200		893	948	µg/g	94.2	70 - 130	
2-Methylpentane	ND	< 30		283	293	µg/g	96.6	70 - 130	
MTBE	ND	< 500		2170	2440	µg/g	88.9	70 - 130	
3-Methylpentane	ND	< 30		297	314	µg/g	94.6	70 - 130	
Hexane	ND	< 30		277	297	µg/g	93.3	70 - 130	
1-Propanol	ND	< 500		1990	2350	µg/g	84.7	70 - 130	
Methylethylketone	ND	< 500		2000	2400	µg/g	83.3	70 - 130	
Ethyl acetate	ND	< 200		2170	2370	µg/g	91.6	70 - 130	
2-Butanol	ND	< 200		2250	2410	µg/g	93.4	70 - 130	
Tetrahydrofuran	ND	< 100		879	943	µg/g	93.2	70 - 130	
Cyclohexane	ND	< 200		2220	2370	µg/g	93.7	70 - 130	
2-methyl-1-propanol	ND	< 500		2040	2400	µg/g	85.0	70 - 130	
Benzene	ND	< 1		35.7	38.4	µg/g	93.0	70 - 130	
Isopropyl Acetate	ND	< 200		2170	2420	µg/g	89.7	70 - 130	
Heptane	ND	< 200		2180	2380	µg/g	91.6	70 - 130	
1-Butanol	ND	< 500		2040	2370	µg/g	86.1	70 - 130	
Propyl Acetate	ND	< 500		2040	2470	µg/g	82.6	70 - 130	
1,4-Dioxane	ND	< 100		835	933	µg/g	89.5	70 - 130	
2-Ethoxyethanol	ND	< 30		2160	2370	µg/g	91.1	70 - 130	
Methylisobutylketone	ND	< 500		2050	2460	µg/g	83.3	70 - 130	
3-Methyl-1-butanol	ND	< 500		2090	2400	µg/g	87.1	70 - 130	
Ethylene Glycol	ND	< 200		917	934	µg/g	98.2	70 - 130	
Toluene	ND	< 200		814	937	µg/g	86.9	70 - 130	
Isobutyl Acetate	ND	< 500		1960	2450	µg/g	80.0	70 - 130	
1-Pentanol	ND	< 500		2070	2440	µg/g	84.8	70 - 130	
Butyl Acetate	ND	< 500		2180	2750	µg/g	79.3	70 - 130	
Ethylbenzene	ND	< 200		1680	1920	µg/g	87.5	70 - 130	
m,p-Xylene	ND	< 200		1670	1880	µg/g	88.8	70 - 130	
o-Xylene	ND	< 200		1620	1910	µg/g	84.8	70 - 130	
Cumene	ND	< 30		316	368	µg/g	85.9	70 - 130	
Anisole	ND	< 500		1920	2450	µg/g	78.4	70 - 130	



This report cannot be used for ODA, OHA or OLCC compliance requirements.

QC - Sample Duplicate Sample ID: 19-006586-0001

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	
n-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	
Isopropyl alcohol	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100 µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500 µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Methylethylketone	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100 µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1 µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100 µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500 µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200 µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200 µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500 µg/g	0.0	< 20	Acceptable	

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



This report cannot be used for ODA, OHA or OLCC compliance requirements.

Laboratory Terpene Quality Control Results

EPA 5035				Batch ID: 1905118					
Method Blank				Laboratory Control Sample					
Analyte	Result	Blank	Notes	Result	LCS Spike	Units	LCS % Rec	Limits	Notes
a-pinene	ND	< 200		465	500	µg/g	92.9	70 - 130	
Camphene	ND	< 200		478	500	µg/g	95.5	70 - 130	
Sabinene	ND	< 200		472	500	µg/g	94.5	70 - 130	
b-Pinene	ND	< 200		472	500	µg/g	94.4	70 - 130	
b-Myrcene	ND	< 200		513	500	µg/g	103	70 - 130	
a-phellandrene	ND	< 200		506	500	µg/g	101	70 - 130	
d-3-Carene	ND	< 200		485	500	µg/g	97.0	70 - 130	
a-Terpinene	ND	< 200		526	500	µg/g	105	70 - 130	
p-Cymene	ND	< 200		496	500	µg/g	99.2	70 - 130	
D-Limonene	ND	< 200		487	500	µg/g	97.3	70 - 130	
Eucalyptol	ND	< 200		507	500	µg/g	101	70 - 130	
b-cis-Ocimene	ND	< 66.7		151	167	µg/g	90.4	70 - 130	
b-trans-Ocimene	ND	< 133		357	333	µg/g	107	70 - 130	
g-Terpinene	ND	< 200		504	500	µg/g	101	70 - 130	
Sabinene_Hydrate	ND	< 200		442	500	µg/g	88.4	70 - 130	
Terpinolene	ND	< 200		511	500	µg/g	102	70 - 130	
D-Fenchone	ND	< 200		477	500	µg/g	95.3	70 - 130	
Linalool	ND	< 200		468	500	µg/g	93.5	70 - 130	
Fenchol	ND	< 200		519	500	µg/g	104	70 - 130	
Camphor	ND	< 200		543	500	µg/g	109	70 - 130	
Isopulego	ND	< 200		492	500	µg/g	98.3	70 - 130	
Isoborneol	ND	< 200		468	500	µg/g	93.5	70 - 130	
Borneol	ND	< 200		489	500	µg/g	97.7	70 - 130	
DL-Menthol	ND	< 200		480	500	µg/g	96.0	70 - 130	
Terpineol	ND	< 200		360	500	µg/g	72.0	70 - 130	
Nerol	ND	< 200		486	500	µg/g	97.2	70 - 130	
Pulegone	ND	< 200		527	500	µg/g	105	70 - 130	
Geraniol	ND	< 200		505	500	µg/g	101	70 - 130	
Geranyl_Acetate	ND	< 200		496	500	µg/g	99.3	70 - 130	
a-Cedrene	ND	< 200		503	500	µg/g	101	70 - 130	
b-Caryophyllene	ND	< 200		511	500	µg/g	102	70 - 130	
a-Humulene	ND	< 200		489	500	µg/g	97.7	70 - 130	
Valene	ND	< 200		493	500	µg/g	98.7	70 - 130	
cis-Nerolidol	ND	< 200		526	500	µg/g	105	70 - 130	
a-Farnesene	ND	< 200		631	500	µg/g	126	70 - 130	
trans-Nerolidol	ND	< 200		519	500	µg/g	104	70 - 130	
Caryophyllene_Oxide	ND	< 200		502	500	µg/g	100	70 - 130	
Guaial	ND	< 200		528	500	µg/g	106	70 - 130	
Cedrol	ND	< 200		509	500	µg/g	102	70 - 130	
a-Bisabolol	ND	< 200		505	500	µg/g	101	70 - 130	



This report cannot be used for ODA, OHA or OLCC compliance requirements.

Sample/Sample Duplicate		Sample ID: 19-006586-0001							
Analyte	Result	Org. Result	LOQ	Units	RPD, %	Sample Duplicate	% Limits	Notes	
a-pinene	ND	ND	200	µg/g	0	< 20	80 - 120		
Camphene	ND	ND	200	µg/g	0	< 20	80 - 120		
Sabinene	ND	ND	200	µg/g	0	< 20	80 - 120		
b-Pinene	ND	ND	200	µg/g	0	< 20	80 - 120		
b-Myrcene	ND	ND	200	µg/g	0	< 20	80 - 120		
a-phellandrene	ND	ND	200	µg/g	0	< 20	80 - 120		
d-3-Carene	ND	ND	200	µg/g	0	< 20	80 - 120		
a-Terpinene	ND	ND	200	µg/g	0	< 20	80 - 120		
p-Cymene	ND	ND	200	µg/g	0	< 20	80 - 120		
D-Limonene	ND	ND	200	µg/g	0	< 20	80 - 120		
Eucalyptol	163.9	153.1	200	µg/g	3.41	< 20	80 - 120		
b-cis-Ocimene	ND	ND	66.7	µg/g	0	< 20	80 - 120		
b-trans-Ocimene	ND	ND	133	µg/g	0	< 20	80 - 120		
g-Terpinene	ND	ND	200	µg/g	0	< 20	80 - 120		
Sabinene Hydrate	ND	ND	200	µg/g	0	< 20	80 - 120		
Terpinolene	ND	ND	200	µg/g	0	< 20	80 - 120		
D-Fenchone	ND	ND	200	µg/g	0	< 20	80 - 120		
Linalool	663.9	603.4	200	µg/g	4.77	< 20	80 - 120		
Fenchol	ND	ND	200	µg/g	0	< 20	80 - 120		
Camphor	256.9	234.6	200	µg/g	4.54	< 20	80 - 120		
Isopulego	ND	ND	200	µg/g	0	< 20	80 - 120		
Isoborneol	ND	ND	200	µg/g	0	< 20	80 - 120		
Borneol	ND	ND	200	µg/g	0	< 20	80 - 120		
DL-Menthol	ND	ND	200	µg/g	0	< 20	80 - 120		
Terpineol	ND	ND	200	µg/g	0	< 20	80 - 120		
Nerol	ND	ND	200	µg/g	0	< 20	80 - 120		
Pulegone	ND	ND	200	µg/g	0	< 20	80 - 120		
Geraniol	ND	ND	200	µg/g	0	< 20	80 - 120		
Geranyl Acetate	ND	ND	200	µg/g	0	< 20	80 - 120		
a-Cedrene	ND	ND	200	µg/g	0	< 20	80 - 120		
b-Caryophyllene	ND	ND	200	µg/g	0	< 20	80 - 120		
a-Humulene	ND	ND	200	µg/g	0	< 20	80 - 120		
Valenene	ND	ND	200	µg/g	0	< 20	80 - 120		
cis-Nerolidol	ND	ND	200	µg/g	0	< 20	80 - 120		
a-Farnesene	ND	ND	200	µg/g	0	< 20	80 - 120		
trans-Nerolidol	ND	ND	200	µg/g	0	< 20	80 - 120		
Caryophyllene Oxide	ND	ND	200	µg/g	0	< 20	80 - 120		
Guaiol	ND	ND	200	µg/g	0	< 20	80 - 120		
Cedrol	ND	ND	200	µg/g	0	< 20	80 - 120		
a-Bisabolol	ND	ND	200	µg/g	0	< 20	80 - 120		



This report cannot be used for ODA, OHA or OLCC compliance requirements.

Revision: 0.01 Control: CFL-C22
Revised: 12/4/2018 Effective: 12/4/2018

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 1905210				
Method Blank			Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	ND	< 0.200		1.190	1.000	119.0	70 - 130	
Acequinocyl	ND	< 1.000		3.950	4.000	98.8	70 - 130	
Acetamiprid	ND	< 0.100		0.475	0.400	118.8	70 - 130	
Aldicarb	ND	< 0.200		0.885	0.800	110.6	70 - 130	
Abamectin	ND	< 0.288		1.000	1.000	100.0	70 - 130	
Azoxystrobin	ND	< 0.100		0.397	0.400	99.3	70 - 130	
Bifenazate	ND	< 0.100		0.386	0.400	96.5	70 - 130	
Bifenthrin	ND	< 0.100		0.399	0.400	99.8	70 - 130	
Boscalid	ND	< 0.100		0.812	0.800	101.5	70 - 130	
Carbaryl	ND	< 0.100		0.437	0.400	109.3	70 - 130	
Carbofuran	ND	< 0.100		0.437	0.400	109.3	70 - 130	
Chlorantraniliprol	ND	< 0.100		0.397	0.400	99.3	70 - 130	
Chlorfenapyr	ND	< 1.000		2.070	2.000	103.5	70 - 130	
Chlorpyrifos	ND	< 0.100		0.425	0.400	106.3	70 - 130	
Clofentezine	ND	< 0.100		0.443	0.400	110.8	70 - 130	
Cyfluthrin	ND	< 1.000		2.110	2.000	105.5	30 - 150	
Cypermethrin	ND	< 1.000		2.030	2.000	101.5	70 - 130	
Daminozide	ND	< 1.000		0.996	2.000	49.8	30 - 150	
Diazinon	ND	< 0.100		0.431	0.400	107.8	70 - 130	
Dichlorvos	ND	< 0.500		2.220	2.000	111.0	70 - 130	
Dimethoat	ND	< 0.100		0.471	0.400	117.8	70 - 130	
Ethoprophos	ND	< 0.100		0.393	0.400	98.3	70 - 130	
Etofenprox	ND	< 0.100		0.848	0.800	106.0	70 - 130	
Etoxazol	ND	< 0.100		0.347	0.400	86.8	70 - 130	
Fenoxycarb	ND	< 0.100		0.423	0.400	105.8	70 - 130	
Fenpyroximat	ND	< 0.100		0.835	0.800	104.4	70 - 130	
Fipronil	ND	< 0.100		0.825	0.800	103.1	70 - 130	
Flonicamid	ND	< 0.400		1.130	1.000	113.0	70 - 130	
Fludioxonil	ND	< 0.100		0.841	0.800	105.1	70 - 130	
Hexythiazox	ND	< 0.400		1.100	1.000	110.0	70 - 130	
Imazalil	ND	< 0.100		0.458	0.400	114.5	70 - 130	
Imidacloprid	ND	< 0.200		0.938	0.800	117.3	70 - 130	
Kresoxim-Methyl	ND	< 0.100		0.854	0.800	106.8	70 - 130	
Malathion	ND	< 0.100		0.422	0.400	105.5	70 - 130	
Metaxyl	ND	< 0.100		0.424	0.400	106.0	70 - 130	
Methiocarb	ND	< 0.100		0.424	0.400	106.0	70 - 130	
Methomyl	ND	< 0.200		1.030	0.800	128.8	70 - 130	
MGK 264	ND	< 0.100		0.403	0.400	100.8	70 - 130	
Myclobutanil	ND	< 0.100		0.419	0.400	104.8	70 - 130	
Naled	ND	< 0.200		0.931	1.000	93.1	70 - 130	
Oxamyl	ND	< 0.400		2.580	2.000	129.0	70 - 130	
Paclbutrazol	ND	< 0.200		0.812	0.800	101.5	70 - 130	
Parathion Methyl	ND	< 0.200		0.940	0.800	117.5	30 - 150	
Permethrin	ND	< 0.100		0.405	0.400	101.3	70 - 130	
Phosmet	ND	< 0.100		0.429	0.400	107.3	70 - 130	
Piperonyl butoxide	ND	< 1.000		2.090	2.000	104.5	70 - 130	
Prallethrin	ND	< 0.200		0.210	0.200	105.0	70 - 130	
Propiconazole	ND	< 0.200		0.816	0.800	102.0	70 - 130	
Propoxur	ND	< 0.100		0.450	0.400	112.5	70 - 130	
Pyrethrins	ND	< 0.500		0.290	0.284	102.1	70 - 130	
Pyridaben	ND	< 0.100		0.379	0.400	94.8	70 - 130	
Spinosad	ND	< 0.100		0.426	0.388	109.8	70 - 130	
Spiromesifen	ND	< 0.100		0.427	0.400	106.8	70 - 130	
Spirotetramat	ND	< 0.100		0.422	0.400	105.5	70 - 130	
Spiroxamine	ND	< 0.100		0.868	0.800	108.5	70 - 130	
Tebuconazol	ND	< 0.200		0.832	0.800	104.0	70 - 130	
Thiacloprid	ND	< 0.100		0.463	0.400	115.8	70 - 130	
Thiamethoxam	ND	< 0.100		0.521	0.400	130.3	70 - 130	Q1
Trifloxystrobin	ND	< 0.100		0.428	0.400	107.0	70 - 130	

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 Pixis 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 kept a maximum of 15 days from the report date unless prior arrangements have been made.



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Revision: 0.01 Control: CFL-C22
Revised: 12/4/2018 Effective: 12/4/2018

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg				Batch ID: 1905210				
Matrix Spike/Matrix Spike Duplicate Recoveries					Sample ID: 19-006680-0001					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	MS % Rec	MSD % Rec	Limits	Notes	
Acephate	0.000	1.410	1.350	1.000	4.3	< 30	141.0	135.0	50 - 150	
Acequinocyl	0.000	5.280	4.800	4.000	9.5	< 30	132.0	120.0	50 - 150	
Acetamiprid	0.000	0.550	0.542	0.400	1.5	< 30	137.5	135.5	50 - 150	
Aldicarb	0.000	0.985	1.010	0.800	2.5	< 30	123.1	126.3	50 - 150	
Abamectin	0.000	0.984	1.050	1.000	6.5	< 30	98.4	105.0	50 - 150	
Azoxystrobin	0.000	0.503	0.441	0.400	13.1	< 30	125.8	110.3	50 - 150	
Bifenazate	0.000	0.417	0.423	0.400	1.4	< 30	104.3	105.8	50 - 150	
Bifenthrin	0.000	0.363	0.356	0.400	1.9	< 30	90.8	89.0	50 - 150	
Boscalid	0.000	0.838	0.848	0.800	1.2	< 30	104.8	106.0	50 - 150	
Carbaryl	0.000	0.537	0.522	0.400	2.8	< 30	134.3	130.5	50 - 150	
Carbofuran	0.000	0.530	0.540	0.400	1.9	< 30	132.5	135.0	50 - 150	
Chlorantraniliprol	0.000	0.375	0.380	0.400	1.3	< 30	93.8	95.0	50 - 150	
Chlorfenapyr	0.000	2.280	2.190	2.000	4.0	< 30	114.0	109.5	50 - 150	
Chlorpyrifos	0.004	0.732	0.698	0.400	4.8	< 30	182.0	173.5	50 - 150 Q1	
Clofentezine	0.000	0.417	0.395	0.400	5.4	< 30	104.3	98.8	50 - 150	
Cyfluthrin	0.099	3.250	3.000	2.000	8.0	< 30	157.6	145.1	30 - 150 Q1	
Cypermethrin	0.000	1.900	1.900	2.000	0.0	< 30	95.0	95.0	50 - 150	
Daminozide	0.000	2.570	2.430	2.000	5.6	< 30	128.5	121.5	30 - 150	
Diazinon	0.000	0.441	0.411	0.400	7.0	< 30	110.3	102.8	50 - 150	
Dichlorvos	0.000	2.460	2.330	2.000	5.4	< 30	123.0	116.5	50 - 150	
Dimethoat	0.000	0.521	0.517	0.400	0.8	< 30	130.3	129.3	50 - 150	
Ethoprophos	0.000	0.433	0.409	0.400	5.7	< 30	108.3	102.3	50 - 150	
Etofenprox	0.000	0.866	0.856	0.800	1.2	< 30	108.3	107.0	50 - 150	
Etozoxol	0.000	0.402	0.395	0.400	1.8	< 30	100.5	98.8	50 - 150	
Fenoxycarb	0.000	0.430	0.421	0.400	2.1	< 30	107.5	105.3	50 - 150	
Fenpyroximat	0.000	0.927	0.948	0.800	2.2	< 30	115.9	118.5	50 - 150	
Fipronil	0.000	0.980	0.949	0.800	3.2	< 30	122.5	118.6	50 - 150	
Flonicamid	0.000	1.140	1.130	1.000	0.9	< 30	114.0	113.0	50 - 150	
Fludioxonil	0.000	0.965	1.140	0.800	16.6	< 30	120.6	142.5	50 - 150	
Hexythiazox	0.000	2.100	1.950	1.000	7.4	< 30	210.0	195.0	50 - 150 Q1	
Imazali	0.000	0.528	0.535	0.400	1.3	< 30	132.0	133.8	50 - 150	
Imidacloprid	0.000	0.727	0.689	0.800	5.4	< 30	90.9	86.1	50 - 150	
Kresoxim-Methyl	0.000	0.910	0.836	0.800	8.5	< 30	113.8	104.5	50 - 150	
Malathion	0.000	0.492	0.474	0.400	3.7	< 30	123.0	118.5	50 - 150	
Metaxyl	0.000	0.498	0.495	0.400	0.6	< 30	124.5	123.8	50 - 150	
Methiocarb	0.000	0.442	0.442	0.400	0.0	< 30	110.5	110.5	50 - 150	
Methomyl	0.000	1.070	1.010	0.800	5.8	< 30	133.8	126.3	50 - 150	
MGK 264	0.016	0.479	0.465	0.400	3.0	< 30	115.7	112.2	50 - 150	
Myclobutanil	0.000	0.420	0.434	0.400	3.3	< 30	105.0	108.5	50 - 150	
Naled	0.000	1.170	1.150	1.000	1.7	< 30	117.0	115.0	50 - 150	
Oxamyl	0.000	2.640	2.440	2.000	7.9	< 30	132.0	122.0	50 - 150	
Paclbutrazol	0.000	0.847	0.879	0.800	3.7	< 30	105.9	109.9	50 - 150	
Parathion Methyl	0.000	0.951	1.030	0.800	8.0	< 30	118.9	128.8	30 - 150	
Permethrin	0.012	0.368	0.368	0.400	0.0	< 30	89.1	89.1	50 - 150	
Phosmet	0.000	0.462	0.466	0.400	0.9	< 30	115.5	116.5	50 - 150	
Piperonyl butoxide	0.000	2.180	2.160	2.000	0.9	< 30	109.0	108.0	50 - 150	
Prallethrin	0.000	0.302	0.293	0.200	3.0	< 30	151.0	146.5	50 - 150 Q1	
Propiconazole	0.000	0.872	0.849	0.800	2.7	< 30	109.0	106.1	50 - 150	
Propoxur	0.000	0.515	0.539	0.400	4.6	< 30	128.8	134.8	50 - 150	
Pyrethrins	0.000	0.201	0.206	0.284	2.5	< 30	70.8	72.5	50 - 150	
Pyridaben	0.008	0.452	0.444	0.400	1.8	< 30	111.0	109.0	50 - 150	
Spinosad	0.000	0.492	0.463	0.388	6.1	< 30	126.8	119.3	50 - 150	
Spiromesifen	0.000	0.978	0.965	0.400	1.3	< 30	244.5	241.3	50 - 150 Q1	
Spirotetramat	0.000	0.329	0.326	0.400	0.9	< 30	82.3	81.5	50 - 150	
Spiroxamine	0.000	0.926	0.946	0.800	2.1	< 30	115.8	118.3	50 - 150	
Tebuconazol	0.000	0.793	0.754	0.800	5.0	< 30	99.1	94.3	50 - 150	
Thiacloprid	0.000	0.503	0.504	0.400	0.2	< 30	125.8	126.0	50 - 150	
Thiamethoxam	0.000	0.502	0.461	0.400	8.5	< 30	125.5	115.3	50 - 150	
Trifloxystrobin	0.000	0.501	0.483	0.400	2.4	< 30	125.3	120.8	50 - 150	

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 Pixis 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 kept a maximum of 15 days from the report date unless prior arrangements have been made.



This report cannot be used for ODA, OHA or OLCC compliance requirements.

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 1905257**

Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDV-A	0.0100	0.01	%	100	85 - 115	Acceptable		
CBDV	0.0102	0.01	%	102	85 - 115	Acceptable		
CBD-A	0.00935	0.01	%	93.5	85 - 115	Acceptable		
CBG-A	0.00947	0.01	%	94.7	85 - 115	Acceptable		
CBG	0.0102	0.01	%	102	85 - 115	Acceptable		
CBD	0.0107	0.01	%	107	85 - 115	Acceptable		
THCV	0.00981	0.01	%	98.1	85 - 115	Acceptable		
THCVA	0.00939	0.01	%	93.9	85 - 115	Acceptable		
CBN	0.0104	0.01	%	104	85 - 115	Acceptable		
THC	0.00985	0.01	%	98.5	85 - 115	Acceptable		
D8THC	0.00971	0.01	%	97.1	85 - 115	Acceptable		
CBL	0.0102	0.01	%	102	85 - 115	Acceptable		
CBC	0.0107	0.01	%	107	85 - 115	Acceptable		
THCA	0.0101	0.01	%	101	85 - 115	Acceptable		
CBCA	0.00974	0.01	%	97.4	85 - 115	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes	
CBDV-A	ND	0.0003	%	< 0.0003	Acceptable		
CBDV	ND	0.0003	%	< 0.0003	Acceptable		
CBD-A	ND	0.0003	%	< 0.0003	Acceptable		
CBG-A	ND	0.0003	%	< 0.0003	Acceptable		
CBG	ND	0.0003	%	< 0.0003	Acceptable		
CBD	ND	0.0003	%	< 0.0003	Acceptable		
THCV	ND	0.0003	%	< 0.0003	Acceptable		
THCVA	ND	0.0003	%	< 0.0003	Acceptable		
CBN	ND	0.0003	%	< 0.0003	Acceptable		
THC	ND	0.0003	%	< 0.0003	Acceptable		
D8THC	ND	0.0003	%	< 0.0003	Acceptable		
CBL	ND	0.0003	%	< 0.0003	Acceptable		
CBC	ND	0.0003	%	< 0.0003	Acceptable		
THCA	ND	0.0003	%	< 0.0003	Acceptable		
CBCA	ND	0.0003	%	< 0.0003	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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J AOAC 2015 V98-6		Batch ID: 1905257						
Sample Duplicate		Sample ID: 19-006622-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBDV	0.0382	0.0374	0.003	%	2.12	< 20	Acceptable	
CBD-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG	0.00395	0.00329	0.003	%	18.2	< 20	Acceptable	
CBD	5.69	5.56	0.003	%	2.31	< 20	Acceptable	
THCV	ND	ND	0.003	%	0	< 20	Acceptable	
THCVA	ND	ND	0.003	%	0	< 20	Acceptable	
CBN	ND	ND	0.003	%	0	< 20	Acceptable	
THC	0.00483	0.00468	0.003	%	3.15	< 20	Acceptable	
D8THC	ND	ND	0.003	%	0	< 20	Acceptable	
CBL	ND	ND	0.003	%	0	< 20	Acceptable	
CBC	0.00744	0.00753	0.003	%	1.20	< 20	Acceptable	
THCA	ND	ND	0.003	%	0	< 20	Acceptable	
CBCA	ND	ND	0.003	%	0	< 20	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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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.
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.