



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

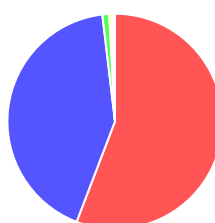


Report Number: 20-002237/D02.R00
Report Date: 03/04/2020
ORELAP#: OR100028
Purchase Order:
Received: 02/26/20 11:00

Customer: Rogue Biosciences
Product identity: NDT20001-HH
Client/Metric ID: .
Laboratory ID: 20-002237-0001

Summary

Potency:

Analyte	Result (%)		<ul style="list-style-type: none">● CBD● CBD-A● CBG-A● CBG● CBDV● CBDV-A	
CBD	55.6			
CBD-A	42.1			
CBG-A†	1.02			
CBG†	0.440			
CBDV†	0.232			
CBDV-A†	0.181			
		CBD-Total 92.5%		
		THC-Total <LOQ		
		(Reported in percent of total sample)		

Pesticides:

All analytes passing and less than LOQ.

Microbiology:

Less than LOQ for all analytes.



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Received: 02/26/20 11:00

Customer: Rogue Biosciences

Product identity: NDT20001-HH
Client/Metric ID: .
Sample Date:
Laboratory ID: 20-002237-0001
Relinquished by: UPS
Temp: 20.7 °C

Sample Results

Potency	Method J AOAC 2015 V98-6			Units %	Batch 2002014	Analyze 03/02/20 11:59 PM
Analyte	As Received	Dry weight	LOQ	Notes		
CBC†	< LOQ		0.0892			
CBC-A†	< LOQ		0.0892			
CBC-Total†	< LOQ		0.167			
CBD	55.6		0.892			
CBD-A	42.1		0.892			
CBD-Total	92.5		1.67			
CBDV†	0.232		0.0892			
CBDV-A†	0.181		0.0892			
CBDV-Total†	0.389		0.167			
CBG†	0.440		0.0892			
CBG-A†	1.02		0.0892			
CBG-Total†	1.34		0.167			
CBL†	< LOQ		0.0892			
CBN	< LOQ		0.0892			
Δ8-THC†	< LOQ		0.0892			
Δ9-THC	< LOQ		0.0892			
THC-A	< LOQ		0.0892			
THC-Total	< LOQ		0.167			
THCV†	< LOQ		0.0892			
THCV-A†	< LOQ		0.0892			
THCV-Total†	< LOQ		0.167			

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2001857	02/29/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2001857	02/29/20	AOAC 2014.05 (RAPID)	X



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Pesticides						Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2001936 Analyze 02/29/20 10:02 AM					
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.200	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etiozole	< 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							



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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

cfu/g = Colony forming units 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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Revision: 1.02 Document Control: CF001
Revision Date: 01/14/2019 Effective Date: 01/14/2019



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Phone: (503) 254-1794 Fax: (503) 254-1452
www.pixislabs.com
customerservice@pixislabs.com

Please inform us if you know or suspect that
your sample contains hazardous chemicals.

Some or all of this analyses may be
subcontracted to an ORELAP accredited lab

Chain of Custody Record

Page 1 of 3

Company: <u>Rogue Bioscience</u>		Testing Requested										Purchase Order: <u>PO22520EFH</u>		
Contact: <u>Anthony DeLuca</u>		Potency	Microbial (mold/yeast)	Pesticides								Project Number: _____		
Street: <u>189 Ehrman Way OR 97520</u>												Project Name: _____		
City, State, Zip: <u>Medford OR 97501</u>												<input type="checkbox"/> Report Instructions:		
Email: <u>testresults@emeraldfamilyhemp.com</u>												<input type="checkbox"/> State Compliance Format/Send to State		
Phone: (<u>541</u>) <u>973-2040</u> Fax: (<u> </u>) <u> </u>												<input type="checkbox"/> Email Final Results		
Billing (if different): _____												<input type="checkbox"/> Cash/Check/CC/Net 30 Auth/Check # _____		
Client Sample Identification	Date/Time Collected											Sample Type	# Cnr	Comments
1 ✓ NDT20001-HH	2/25/20 9:45	X	X	X								oil	1	2.5 grams / non detect THC oil formulated with 40% CBDa/80% CBD
2 ✓ NDT20002-SSC	'	X	X	X									2	
3 ✓ NDT20003-CC	'	X	X	X									3	
4 ✓ NDT20004-L	'	X	X	X									4	
Sampled by: <u>Anthony DeLuca</u>		* Relinquished by (Signature)	Date	Time	Received by (Signature)		Date	Time	Lab Use Only:					
Turn-around time:		<u>[Signature]</u>	2/24/20	1:05	<u>Hagit Alon</u>		2-26-20	11:00	Client Alias: _____					
Ask for availability									Job No: _____					
<input checked="" type="checkbox"/> Standard									<input type="checkbox"/> Proper Container					
<input type="checkbox"/> Rush (1.5 Times Standard)									<input type="checkbox"/> Sample Condition					
<input type="checkbox"/> Priority Rush (2 Times Standard)									<input type="checkbox"/> Temperature 4 ± 2 °C <u>30.7</u>					
									Evidence of Cooling <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
									Shipped Via: <u>ups</u>					

*SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS LABS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM. BY SIGNING "RELINQUISHED BY" YOU AGREE TO THESE TERMS AND CONDITIONS.



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Revision: 1.00 Document Control: CF001
Revision Date: 04/28/2018 Effective Date: 04/28/2018

PIXIS Labs
CHAIN OF CUSTODY INSTRUCTIONS

COMPANY NAME	Name of the company and/or individual who will receive the lab report. Please specify if the billing information is different than the reporting information.
and CONTACT INFO -	
COMMENTS -	A brief description of any special instructions pertaining to the samples or reporting.
PO# -	Applies to a customer purchase order or number to be listed on the invoice.
PROJECT -	Applies to a customer project name or number to be listed on the report.
STATE COMPLIANCE -	Applies to report format. MUST BE CHECKED FOR ALL COMPLIANCE WORK REQUESTED. All samples must be collected and preserved properly. A job may be rejected if it does not meet State or NELAC standards. Refer to sampling instruction sheets.
CLIENT SAMPLE ID -	A short description of the sample point or material to be analyzed (e.g., "Effluent from sand filter"). This description will appear on the report.
COLLECTION DATE -	The date on which the sample(s) was/were collected.
COLLECTION TIME -	The time at which the sample(s) was/were collected.
SAMPLE TYPE -	This is a description of the sample media (e.g., drinking water, waste water, soil, etc.)
TESTING REQUESTED -	Use one line for each analysis or group of analyses associated to a specific sample ID.
SAMPLED BY -	The name of the person who collected the sample(s).
RELINQUISHED BY -	The signature of the person who is turning possession of the sample(s) to the lab for analysis along with date and time. All below terms and conditions are agreed upon this signature.
RECEIVED BY -	The lab personnel who receives the sample(s) signs here and fills in the date/time received. The date and time should be same as "Relinquished by" unless the sample(s) was shipped.

TERMS AND CONDITIONS

PRICING AND CHARGES

Prices to be charged for work performed for CUSTOMER are those currently published in the Columbia Food Laboratories, Inc. DBA Pixis Labs (herein referred to as "the LAB", where Columbia Food Laboratories, Inc. & Pixis Labs can be used interchangeably) standard price book unless otherwise agreed in writing by the CUSTOMER and the LAB. CUSTOMER must notify the LAB of price quotation at the time of the transfer of sample(s) to the LAB. Any cancellation of testing requirements will result in charges being assessed on all testing completed prior to the notice of cancellation. Unless otherwise agreed upon, samples containing hazardous material will be shipped back to client at their expense, or disposed of at a certain fee, waste category dependent. New accounts are accepted with full payment in advance by cash, check, Visa or Mastercard. A credit line may be established with an approved credit application.

DELIVERY AND LIABILITY LIMITATIONS

The specific format of the goods will be defined by CUSTOMER to the LAB upon delivery of the sample(s) to the LAB. The LAB will analyze samples provided by CUSTOMER as requested by CUSTOMER in accordance with the procedures documented in the Quality Assurance Plan (QAP). Samples are retained for 15 days. If additional time is desired, then a written request is required and an additional monthly fee will apply. This price quote is only valid for one year after initial quote date.

CONFIDENTIALITY

The LAB will treat all information regarding work performed for CUSTOMER as proprietary and confidential. No CUSTOMER information will be released to third persons without the written request of the CUSTOMER.

LIMITATION OF LIABILITY AND WARRANTY

The LAB gives no warranty, express or implied, or of fitness for a particular purpose, in connection with its analytical testing or reporting. Any liability of the LAB to CUSTOMER or any third party shall be limited to the cost of analysis charged to CUSTOMER.

PAST DUE ACCOUNTS

Credit line account are payable within 30 days. Accounts that are 60 days past due will incur 1 1/2% per month on all past due sums until paid in full and will automatically default to cash on delivery (COD). Reports will not be released unless payment on past and current invoices are received. Customer agrees to pay the interest as a service charge and all the LAB's collection costs, including reasonable attorney fees.

EXPERT TESTIMONY AND COURT APPEARANCES

In the event CUSTOMER requires the further written opinion or testimony of any employee of the LAB, including response to a subpoena issued by CUSTOMER or any third person, CUSTOMER agrees to pay such additional fees and expenses as may be reasonably assessed by the LAB.

ALTERNATIVE DISPUTE RESOLUTION (ADR)

Any disputes arising out of this Agreement or the analytical testing or reporting by the LAB shall be settled through mediation and/or arbitration rather than litigation, and the cost of the ADR shall be borne equally by both parties.

APPLICABLE LAW

Legal matters arising from work performed by the LAB for CUSTOMER will be construed and interpreted in accordance with the laws for the state of Oregon.



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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: 20-002237 Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 26-20 Time: 11:00

Received By (Initials): HA

1) Were custody seals on outside of the package/cooler? YES NO NA
If YES, how many and where? _____

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): 12 739 WVI 01 1259 7875

6) Was packing material used? YES NO NA

Peanuts Bubble Wrap Foam Paper Other: _____

7) Was sufficient ice used (if appropriate)? YES NO NA
What kind?

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) 20.7 °C

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

Explain any discrepancies: _____

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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		Laboratory Control Sample		Batch ID: 2001936	
Method blank								
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acenatpe	0.000	< 0.200		0.779	1.000	77.9	69.3 - 129	
Acequinocyl	0.065	< 1.000		3.894	4.000	97.3	69.8 - 130	
Acetamidrid	0.000	< 0.100		0.389	0.400	97.2	70.3 - 131	
Aldicarb	0.000	< 0.200		0.768	0.800	96.0	70.3 - 131	
Abamectin	0.053	< 0.288		0.947	1.000	94.7	70.5 - 131	
Azoxystrobin	0.011	< 0.100		0.384	0.400	96.0	71.4 - 133	
Bifenazate	0.012	< 0.100		0.397	0.400	99.3	71.3 - 132	
Bifenthrin	0.012	< 0.100		0.361	0.400	90.2	70.7 - 131	
Boscalid	0.021	< 0.100		0.848	0.800	106.0	70.9 - 132	
Carbaryl	0.014	< 0.100		0.382	0.400	95.4	70.8 - 132	
Carbofuran	0.004	< 0.100		0.397	0.400	99.4	72.6 - 135	
Chlorantraniliprol	0.010	< 0.100		0.385	0.400	96.3	69.3 - 129	
Chlorfenapyr	0.332	< 1.000		2.560	2.000	128.0	70.8 - 132	
Chlorpyrifos	0.000	< 0.100		0.364	0.400	90.9	71.2 - 132	
Clofentezine	0.011	< 0.100		0.375	0.400	93.9	68.1 - 126	
Cyfluthrin	0.103	< 1.000		2.166	2.000	108.3	70.5 - 131	
Cypermethrin	0.135	< 1.000		1.938	2.000	96.9	72.2 - 134	
Daminozide	0.000	< 1.000		2.007	2.000	100.3	68.1 - 127	
Diazinon	0.010	< 0.100		0.384	0.400	96.1	70.9 - 132	
Dichlorvos	0.000	< 0.500		2.057	2.000	102.9	69.1 - 128	
Dimethoat	0.007	< 0.100		0.385	0.400	96.4	70.1 - 130	
Ethoprophos	0.009	< 0.100		0.393	0.400	98.3	68.6 - 127	
Etofenprox	0.001	< 0.100		0.791	0.800	98.9	73.6 - 137	
Etoxaol	0.011	< 0.100		0.376	0.400	93.9	71.3 - 132	
Fenoxycarb	0.003	< 0.100		0.390	0.400	97.5	70.9 - 132	
Fenpyroximat	0.016	< 0.100		0.781	0.800	97.6	71.8 - 133	
Fipronil	0.028	< 0.100		0.771	0.800	96.4	71.2 - 132	
Flonicamid	0.062	< 0.400		0.984	1.000	98.4	69.4 - 129	
Fludioxonil	0.000	< 0.100		0.912	0.800	114.0	73.5 - 137	
Hexythiazox	0.022	< 0.400		0.930	1.000	93.0	71.7 - 133	
Imazalil	0.016	< 0.100		0.394	0.400	98.6	72.9 - 135	
Imidacloprid	0.039	< 0.200		0.758	0.800	94.7	69.9 - 130	
Kresoxim-Methyl	0.000	< 0.100		0.865	0.800	108.1	71.4 - 133	
Malathion	0.004	< 0.100		0.403	0.400	100.8	70.9 - 132	
Metaxalayl	0.007	< 0.100		0.389	0.400	97.4	70.5 - 131	
Methiocarb	0.004	< 0.100		0.387	0.400	96.6	70.8 - 132	
Methomyl	0.046	< 0.200		0.778	0.800	97.2	68.7 - 128	
MGK 264	0.013	< 0.100		0.404	0.400	100.9	70.6 - 131	
Myclobutanil	0.000	< 0.100		0.377	0.400	94.2	70.4 - 131	
Naled	0.026	< 0.200		0.982	1.000	98.2	71.6 - 133	
Oxamyl	0.000	< 0.400		2.005	2.000	100.3	68.5 - 127	
Paclobutrazol	0.005	< 0.200		0.773	0.800	96.6	71.6 - 133	
Parathion Methyl	0.000	< 0.200		0.794	0.800	99.3	71.8 - 133	
Permethrin	0.015	< 0.100		0.388	0.400	97.0	74.2 - 138	
Phosmet	0.006	< 0.100		0.393	0.400	98.2	71.0 - 132	
Piperonyl butoxide	0.000	< 1.000		2.099	2.000	104.9	75.3 - 140	
Prallethrin	0.035	< 0.200		0.372	0.400	92.9	71.9 - 134	
Propiconazole	0.000	< 0.200		0.782	0.800	97.7	70.9 - 132	
Propoxur	0.008	< 0.100		0.374	0.400	93.6	71.1 - 132	
Pyrethrins	0.008	< 0.500		0.360	0.413	87.1	74.8 - 139	
Pyridaben	0.000	< 0.100		0.379	0.400	94.9	78.0 - 145	
Spinosad	0.001	< 0.100		0.405	0.388	104.4	74.3 - 138	
Spiromesifen	0.004	< 0.100		0.408	0.400	102.0	71.5 - 133	
Spirotetramat	0.010	< 0.100		0.401	0.400	100.2	70.1 - 130	
Spiroxamine	0.026	< 0.100		0.791	0.800	98.8	72.8 - 135	
Tebuconazol	0.016	< 0.200		0.810	0.800	101.2	71.1 - 132	
Thiacloprid	0.000	< 0.100		0.388	0.400	96.9	70.7 - 131	
Thiamethoxam	0.030	< 0.100		0.434	0.400	108.5	69.9 - 130	
Trifloxystrobin	0.000	< 0.100		0.400	0.400	99.9	71.5 - 133	



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Revised: 08/12/2019 Effective: 08/15/2019

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662									
Units: mg/kg									
Batch ID: 2001936									
Sample ID: 20-002023-0007									
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Notes
Acetate	0.000	0.807	0.811	1.000	0.6	< 30	80.7	81.1	50 - 150
Acetaminophen	0.000	4.331	4.438	4.000	2.5	< 30	108.3	111.0	50 - 150
Acetaminophen	0.000	0.402	0.386	0.400	3.9	< 30	100.4	96.6	50 - 150
Aldicarb	0.000	0.795	0.791	0.800	0.4	< 30	99.4	98.9	50 - 150
Abamectin	0.046	1.043	1.019	1.000	2.3	< 30	99.7	97.3	50 - 150
Azoxystrobin	0.009	0.365	0.360	0.400	1.6	< 30	89.0	87.6	50 - 150
Bifenazate	0.010	0.374	0.377	0.400	0.9	< 30	91.1	91.9	50 - 150
Bifenthrin	0.025	0.827	0.821	0.400	0.8	< 30	200.7	199.1	50 - 150 Q1
Boscalid	0.022	0.791	0.850	0.800	7.2	< 30	96.0	103.4	50 - 150
Carbaryl	0.013	0.394	0.389	0.400	1.3	< 30	95.2	94.0	50 - 150
Carbofuran	0.004	0.398	0.399	0.400	0.3	< 30	98.5	98.8	50 - 150
Chlorantraniliprol	0.008	0.359	0.370	0.400	3.1	< 30	87.7	90.5	50 - 150
Chlorfenapyr	0.000	2.214	1.818	2.000	19.6	< 30	110.7	90.9	50 - 150
Chlorpyrifos	0.007	0.462	0.436	0.400	6.0	< 30	113.9	107.2	50 - 150
Clofentezine	0.010	0.428	0.410	0.400	4.2	< 30	104.6	100.2	50 - 150
Cyfluthrin	0.082	1.664	1.742	2.000	4.5	< 30	79.1	83.0	30 - 150
Cypermethrin	0.112	2.101	2.170	2.000	3.2	< 30	99.4	102.9	50 - 150
Daminozide	0.000	1.756	1.701	2.000	3.1	< 30	87.8	85.1	30 - 150
Diazinon	0.009	0.408	0.399	0.400	2.3	< 30	99.9	97.6	50 - 150
Dichlorvos	0.001	2.111	2.172	2.000	2.8	< 30	105.5	108.6	50 - 150
Dimethoat	0.006	0.387	0.391	0.400	1.0	< 30	95.2	96.2	50 - 150
Ethionphos	0.038	0.433	0.433	0.400	0.0	< 30	98.8	98.8	50 - 150
Etofenprox	0.005	0.865	0.843	0.800	2.5	< 30	107.5	104.9	50 - 150
Etoxazol	0.004	0.429	0.393	0.400	8.7	< 30	106.2	97.3	50 - 150
Fenoxycarb	0.002	0.397	0.389	0.400	2.1	< 30	98.7	96.7	50 - 150
Fenpyroximate	0.000	0.760	0.757	0.800	0.4	< 30	95.0	94.6	50 - 150
Fipronil	0.027	0.854	0.815	0.800	4.7	< 30	103.4	98.4	50 - 150
Flonicamid	0.052	0.981	0.973	1.000	0.8	< 30	92.9	92.1	50 - 150
Fludioxonil	0.000	0.794	0.842	0.800	5.8	< 30	99.3	105.2	50 - 150
Hexythiazox	0.025	1.371	1.350	1.000	1.6	< 30	134.6	132.5	50 - 150
Imazalil	0.013	0.402	0.376	0.400	6.7	< 30	97.5	90.9	50 - 150
Imidacloprid	0.034	0.792	0.786	0.800	0.7	< 30	94.7	94.0	50 - 150
Kresoxim-Methyl	0.000	0.743	0.767	0.800	3.2	< 30	92.9	95.9	50 - 150
Malathion	0.000	0.382	0.387	0.400	1.3	< 30	95.5	96.7	50 - 150
Metaxyl	0.006	0.412	0.387	0.400	6.1	< 30	101.5	95.4	50 - 150
Methiocarb	0.002	0.412	0.417	0.400	1.2	< 30	102.5	103.8	50 - 150
Methomyl	0.040	0.773	0.754	0.800	2.6	< 30	91.7	89.2	50 - 150
MGK 264	0.013	0.448	0.491	0.400	9.1	< 30	108.9	119.6	50 - 150
Myclobutanil	0.000	0.392	0.383	0.400	2.4	< 30	98.1	95.7	50 - 150
Naled	0.022	1.010	0.995	1.000	1.5	< 30	98.8	97.3	50 - 150
Oxamyl	0.000	2.034	1.858	2.000	9.0	< 30	101.7	92.9	50 - 150
Pachlobutrazol	0.003	0.824	0.835	0.800	1.2	< 30	102.7	104.0	50 - 150
Parathion Methyl	0.000	0.780	0.652	0.800	17.9	< 30	97.4	81.5	30 - 150
Permethrin	0.014	0.477	0.483	0.400	1.1	< 30	116.0	117.3	50 - 150
Phosmet	0.006	0.383	0.403	0.400	5.1	< 30	94.2	99.3	50 - 150
Piperonyl butoxide	0.000	2.150	2.113	2.000	1.7	< 30	107.5	105.6	50 - 150
Prallethrin	0.021	0.540	0.512	0.400	5.4	< 30	129.7	122.6	50 - 150
Propiconazole	0.000	0.805	0.800	0.800	0.7	< 30	100.6	99.9	50 - 150
Propoxur	0.007	0.382	0.396	0.400	3.7	< 30	93.8	97.4	50 - 150
Pyrethrin	0.000	0.406	0.406	0.413	0.1	< 30	98.3	98.2	50 - 150
Pyridaben	0.000	0.358	0.355	0.400	0.8	< 30	89.4	88.8	50 - 150
Spinosad	0.000	0.419	0.437	0.388	4.2	< 30	108.0	112.7	50 - 150
Spiromesifen	0.011	0.466	0.496	0.400	6.2	< 30	113.8	121.3	50 - 150
Spirotetramat	0.000	0.362	0.343	0.400	5.4	< 30	90.5	85.8	50 - 150
Spiroxamine	0.022	0.777	0.787	0.800	1.3	< 30	94.4	95.7	50 - 150
Tebuconazole	0.034	0.793	0.820	0.800	3.3	< 30	94.9	98.3	50 - 150
Thiacloprid	0.000	0.391	0.389	0.400	0.4	< 30	97.7	97.3	50 - 150
Thiamethoxam	0.028	0.413	0.378	0.400	8.8	< 30	96.3	87.5	50 - 150
Trifloxystrobin	0.000	0.408	0.401	0.400	1.1	< 30	101.9	100.2	50 - 150



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



Report Number: 20-002237/D02.R00
Report Date: 03/04/2020
ORELAP#: OR100028
Purchase Order:
Received: 02/26/20 11:00

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

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2002014								
Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBV-A	0.194	0.2	%	97.2	85.0 - 115	Acceptable		
CBV	0.212	0.2	%	106	85.0 - 115	Acceptable		
CB-A	0.194	0.2	%	97.1	85.0 - 115	Acceptable		
CBG-A	0.203	0.2	%	102	85.0 - 115	Acceptable		
CBG	0.202	0.2	%	101	85.0 - 115	Acceptable		
CB	0.188	0.2	%	93.8	85.0 - 115	Acceptable		
THCV	0.196	0.2	%	97.8	85.0 - 115	Acceptable		
THCVA	0.196	0.2	%	97.9	85.0 - 115	Acceptable		
CBN	0.186	0.2	%	93.2	85.0 - 115	Acceptable		
THC	0.195	0.2	%	97.4	85.0 - 115	Acceptable		
D8THC	0.188	0.2	%	94.2	85.0 - 115	Acceptable		
CBL	0.192	0.2	%	96.1	85.0 - 115	Acceptable		
CB	0.198	0.2	%	98.9	85.0 - 115	Acceptable		
THCA	0.186	0.2	%	93.2	85.0 - 115	Acceptable		
CBGA	0.189	0.2	%	94.5	85.0 - 115	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes	
CBV-A	<LOQ	0.1	%	< 0.1	Acceptable		
CBV	<LOQ	0.1	%	< 0.1	Acceptable		
CB-A	<LOQ	0.1	%	< 0.1	Acceptable		
CBG-A	<LOQ	0.1	%	< 0.1	Acceptable		
CBG	<LOQ	0.1	%	< 0.1	Acceptable		
CB	<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		
CB	<LOQ	0.1	%	< 0.1	Acceptable		
THCA	<LOQ	0.1	%	< 0.1	Acceptable		
CBGA	<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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Revision #: 0.00 Control : CFL-D06
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

JAOAC2015 V986					Batch ID: 2002014			
Sample Duplicate					Sample ID: 20-002237-0001			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	0.181	0.177	0.1	%	2.28	< 20	Acceptable	
CBDV	0.232	0.227	0.1	%	2.37	< 20	Acceptable	
CBD-A	42.1	40.8	0.1	%	3.35	< 20	Acceptable	
CBG-A	1.02	0.998	0.1	%	2.37	< 20	Acceptable	
CBG	0.440	0.431	0.1	%	2.08	< 20	Acceptable	
CBD	55.6	53.8	0.1	%	3.32	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.1	%	NA	< 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	
CBG	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBGA	<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.