Pseudomonas Test Instructions
RAPID PLUS OVERNIGHT TEST

TEST PACKAGE CONTENTS

- Each Test Package contains: ONE (1) Pseudomonas Test Cartridge and collection/preparation materials to run a RAPID or OVERNIGHT Test.

- The RAPID Test collection/preparation materials are: ONE (1) Squeeze tube with 200 microliters of elution buffer and ONE (1) iClean Specimen Collection Swab.

- The OVERNIGHT Test collection/preparation materials are: ONE (1) sterile agar tube and TWO (2) iClean Specimen Collection Swabs.

1 SAMPLE COLLECTION

- Do not clean the ear before collecting sample(s).

- Decide if you will only run the OVERNIGHT TEST or the RAPID TEST AND THE OVERNIGHT TEST.

- RAPID TEST Instructions start on page 2.

- OVERNIGHT TEST Instructions start on page 7.

- Each Test Package allows you to perform only one test as it only contains ONE (1) single use cartridge.

- We do not recommend only running a RAPID TEST alone because of the possibility of false negative results for low-level Pseudomonas infections.
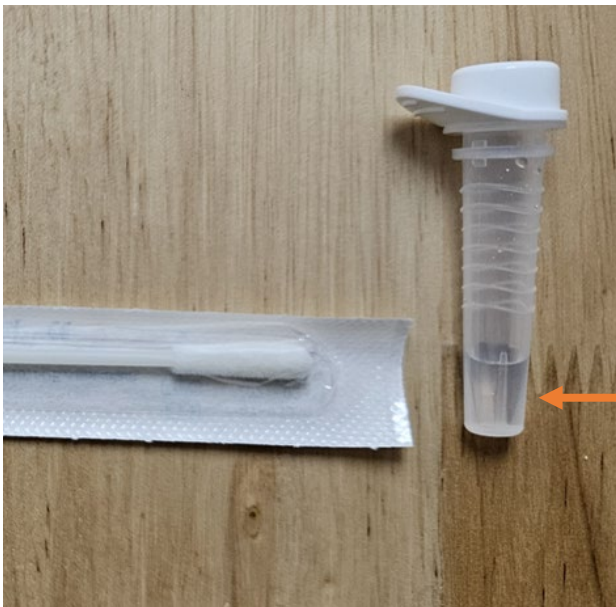
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QSMDiagnostics®

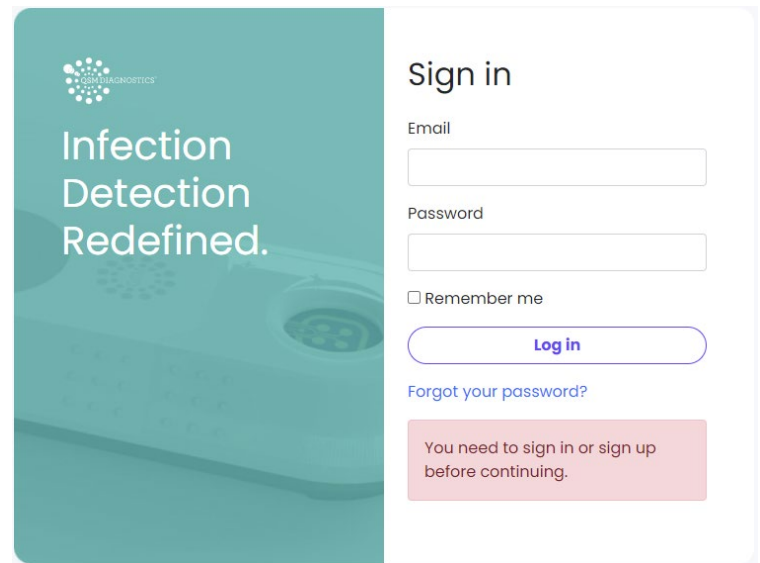**Otter®**

2

RAPID TEST SAMPLE PREP

- The rapid test must be run IMMEDIATELY after collecting the cerumen (ear exudate).

- Tap the squeeze tube against a tabletop to make sure that the elution solution is collected to the bottom of the tube.

- Pop up the white top from the squeeze tube and place the swab with the freshly collected material into the squeeze tube containing elution solution!

- DO NOT LET THE COLLECTED CERUMEN SIT DRY for more than 30 min or the chance of a false negative will increase.
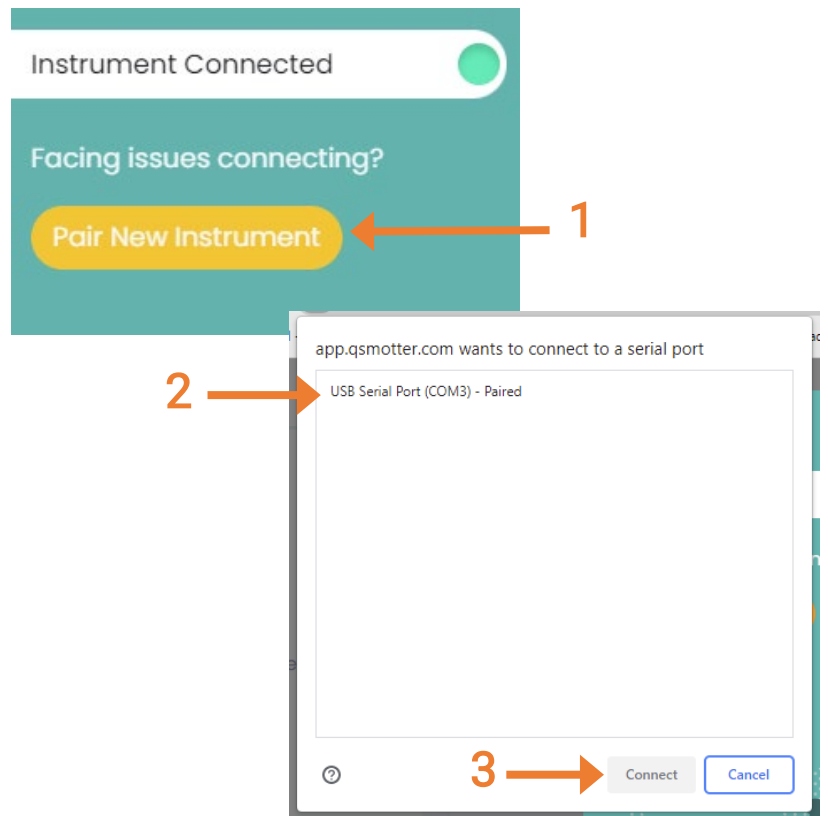
3 LOGIN & INSTRUMENT SETUP

- Make sure that the Otter eQ is connected to your computer by connecting the USB cable from the Otter eQ into any USB port on your desktop or laptop computer.

- The very first time you connect the Otter eQ, your computer may prompt you to install a driver. If so, select yes.

- Open a Google Chrome or Microsoft Edge browser tab.

- Go to **app.qsmotter.com** and sign into the instrument software.

Sign in

Email

Password

☐ Remember me

Log in

Forgot your password?

You need to sign in or sign up before continuing.

Confirm Connection

- Make sure that the status bar in the upper left shows "Instrument Connected."

- If it shows "searching for instrument", you will need to: (1) Click on "Pair New Instrument", (2) Select USB Serial Port, and (3) Click connect. Your status bar should now say "Instrument Connected" and display a green dot.

- If the USB Serial Port for the instrument is not shown in the menu, please contact us at engineering@qsmdiagnsotics.com .

Instrument Connected 🟢

Facing issues connecting?

Pair New Instrument ← 1

app.qsmotter.com wants to connect to a serial port

2 → USB Serial Port (COM3) - Paired

3 → Connect   Cancel

RAPID TEST

4 RUN THE TEST

- Click "Run test" in the upper right corner of the page.

- Start typing the pet's identifying information and select the appropriate entry from the dropdown list if the pet is already in the system.

- If the pet is not yet in the system, type the pet's name and click on the "Add New Pet" button displays on the screen. Enter the required information and click "Add Pet."

- *If you are adding a new pet to an existing pet owner, please go to the "Pets" menu on the left to add the pet and select the existing pet owner from the dropdown menu that displays.

- Select the Sample Area and add an optional Sample ID.

- Click "Proceed."

5 Insert Cartridge or Sensor

- Insert a new cartridge directly into the Otter eQ instrument and remove the protective sticker before applying the sample.
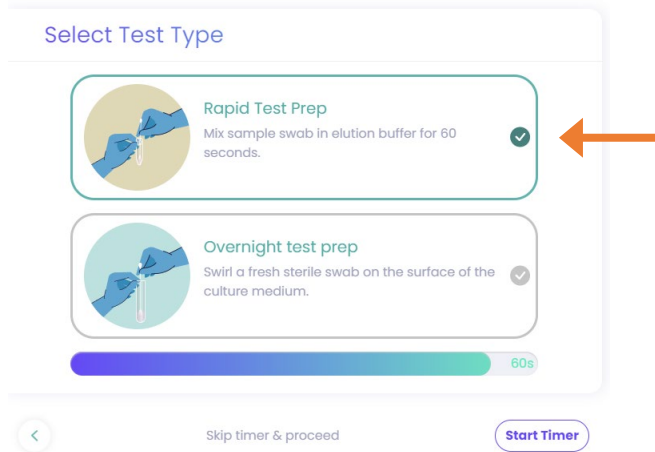
RAPID TEST

6   Select Rapid Test and Prepare Swab Sample

- Please follow the instructions shown on the screen for the rapid test.

- Squeeze the tube while you swirl the swab in the elution buffer for 60 seconds so that the sample is mixed very well.

7   Apply Sample to Cartridge

- Take the swab out from the tube and rub the swab tip over the circular mesh on the sensor until the mesh is fully wet. The mesh becomes more transparent when it is wet.

- Note: If the mesh does not fully wet, you can re-dip the swab tip in the elution buffer and rub the swab tip on the mesh again.

RAPID TEST

8 Run Measurement

- Once the sample has completely wetted the mesh, press the "Run Test" button on the screen.

- The measurement takes less than 30 seconds.

- The test results are saved automatically.

- If the Result is "PENDING" click the reload page button to update the results.

- When you return to the dashboard, the results of recent tests will be displayed. You can click on the icon on the right side to download a PDF of the report.

Add sample & run test

Insert sensor cartridge
Ensure that the appropriate cartridge has been correctly inserted into the device.

Check sample coverage
Ensure sample has spread across sensor surface.

Run Test

Recent test results

Pet Owner	Pet Name	Date	Sample area	Type	Result	
Jim	Demo	less than a minute	Left Ear	Rapid	Completed	

9 REVIEW RESULTS

Pathogen	Result
Pseudomonas	Completed

- Select the RAPID test that you ran in the dashboard. This will take you to the detailed results page for the test and allow you to complete the appropriate survey.

- You may also upload cytology results if you wish to attach these to your results.

- IF THE RESULT FOR THE RAPID TEST IS NEGATIVE, PLEASE RUN THE OVERNIGHT TEST TO CONFIRM THE ABSENCE OF PSEUDOMONAS.

Please add Cytology Results

Start press Enter ↵
⏱ Takes 1 min

10 VIDEO LINK & CONTACT INFORMATION

For Questions or Help please contact QSM Engineering by email or phone

Email: engineering@qsmdiagnostics.com
Phone: 617-579-2004 Option 5

Thank You!

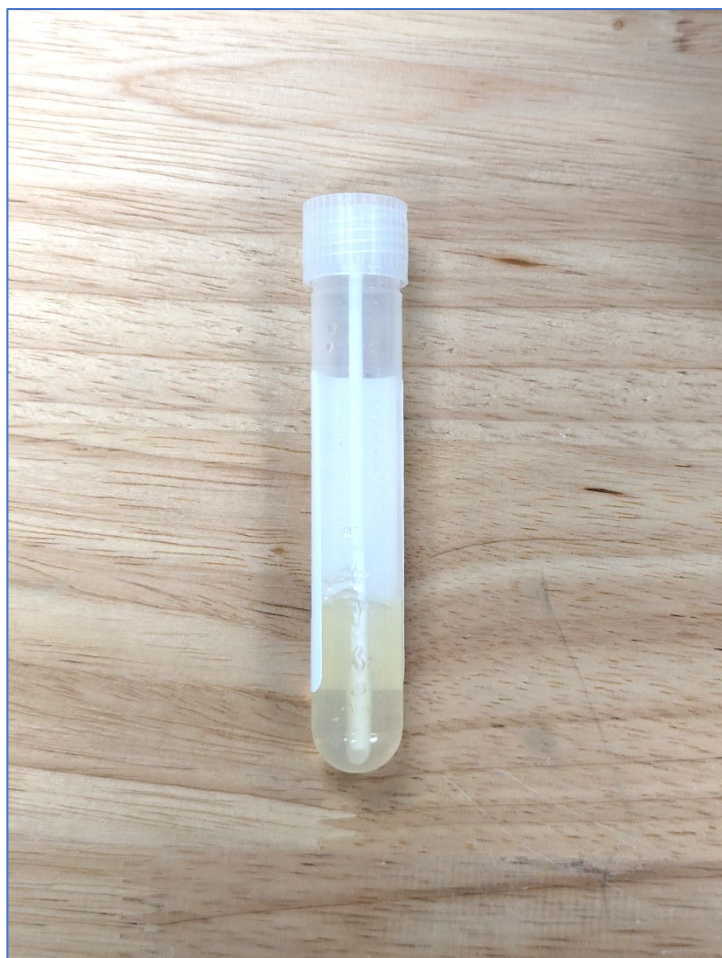This page is blank on purpose.

OVERNIGHT TEST

2

OVERNIGHT SAMPLE PREP

- Snap the handle of the test swab in half and slide the swab far enough into the gel in the culture tube so the cap can close.

- Make sure the plate is switched on and set to 37 °C. Place the tube with the inserted swab in the hot plate overnight (incubate for a minimum of 12 hours).

- Double tap the 4 squares on the right side of the display so that "- -" shows on the left side of the display. This will ensure the heat bath continuously remains on. Use the up and down arrows to adjust the temperature to 37.0 °C if needed.
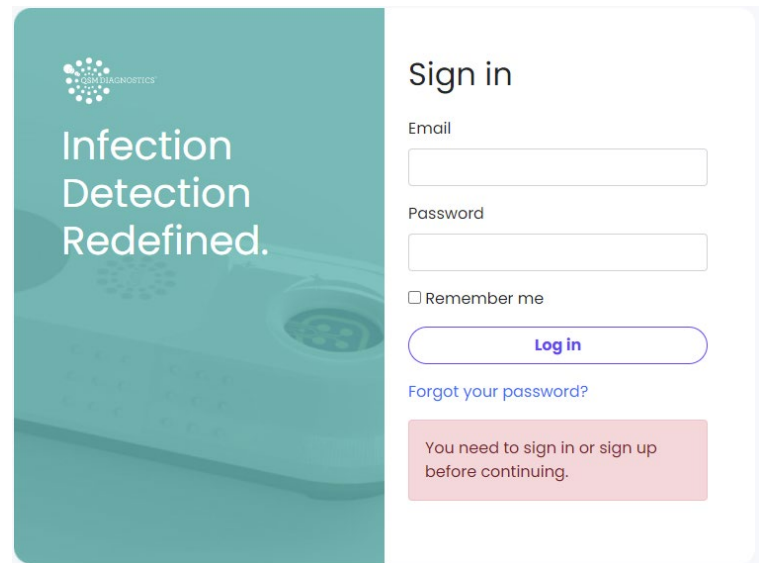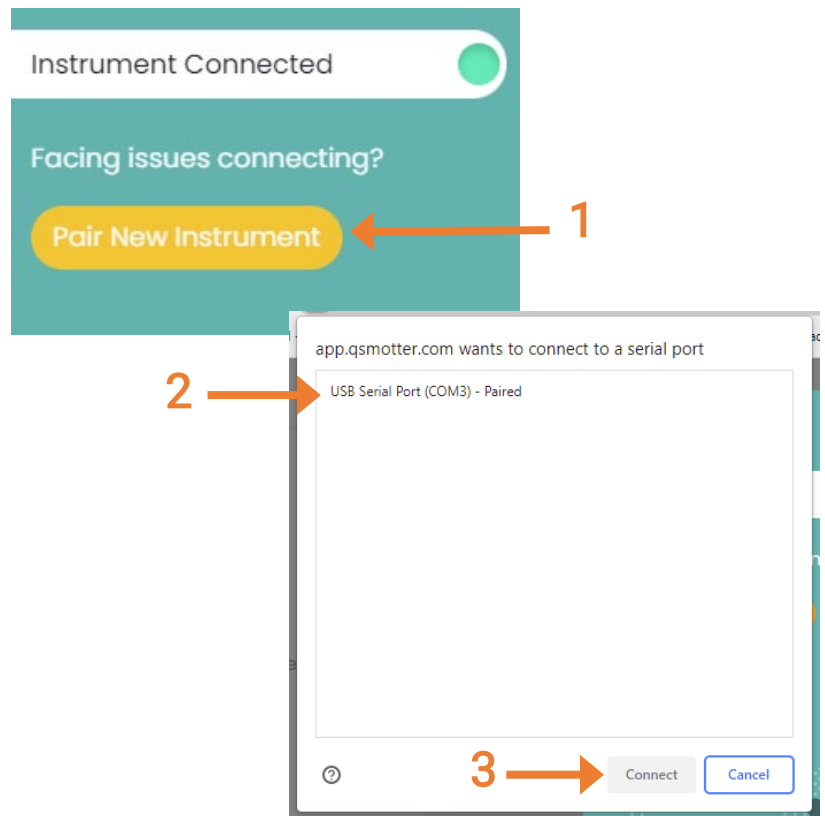
OVERNIGHT TEST

LOGIN & INSTRUMENT SETUP

3

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QSMDIAGNOSTICS®

Infection Detection Redefined.

Sign in

Email

Password

☐ Remember me

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app.qsmotter.com wants to connect to a serial port

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OVERNIGHT TEST

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- Click "Run test" in the upper right corner of the page.

- Start typing the pet's name and select the appropriate entry from the dropdown list if the pet is already in the system.

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- Select the Sample Area and add an optional Sample ID.

- Click "Proceed".
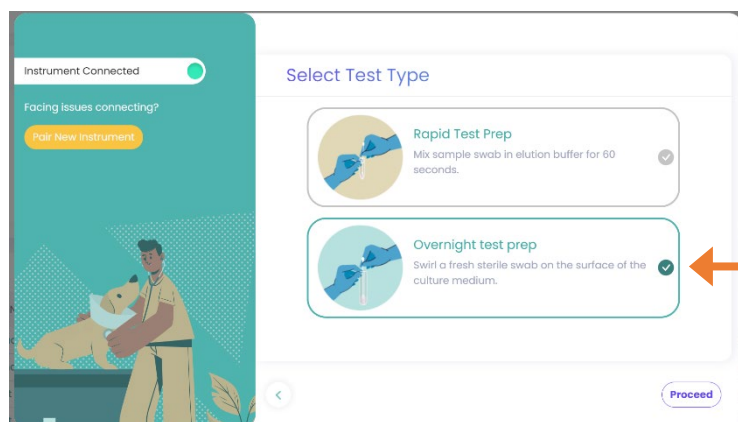
5 · Select Overnight Test and Prepare Swab Sample

- Select Overnight test prep from the menu and follow the prompt.

- Open a new sterile swab and lower it into the gel in the culture tube so that the entire foam head is just below the surface. Swirl the tip around the previously inserted swab 3 times.
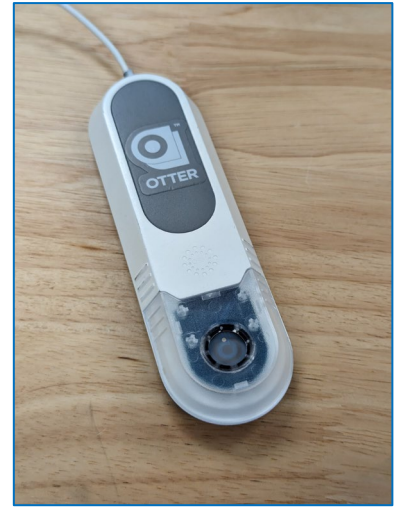
6 Insert Cartridge or Sensor

- Insert a new cartridge directly into the Otter eQ instrument and remove the protective sticker before applying the sample.

7 Apply Sample to Cartridge

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OVERNIGHT TEST

Run Measurement

8

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REVIEW RESULTS

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Pathogen	Result	Concentration
Pseudomonas	Completed	–

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Please add Cytology Results

Start press Enter ↵

🕐 Takes 1 min

VIDEO LINK & CONTACT INFORMATION

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For Questions or Help please contact QSM Engineering by email or phone

Email: engineering@qsmdiagnostics.com
Phone: 617-579-2004 Option 5

Demonstration Video
Overnight Test Instruction Video
https://vimeo.com/556672347

Thank You!