Automated checks of the correct functioning of the Instrument

This product has been authorized only for the detection of Rabbit and mouse monoclonal antibodies.

Authorized laboratories that receive your product must notify

Test results should be considered in the context of all available

The performance of this test was established based on

Fluorescent particles

RFID (Radio frequency ID) Tag held inside the Test Strip carton

Ability to perform Quality Control Tests using LumiraDx

For

For Professional Use Only

precautions helping prevent further spread of infection.

The use of a LumiraDx SARS-CoV-2 Ag Test will enable the physician to

ID-19 range from 2-14 days

coughs or exhales. Most estimates of the incubation period for COV

the disease can develop rapidly and have high morbidity in certain

but do not develop any symptoms and do not feel unwell. However,

headache, conjunctivitis, sore throat, diarrhea, loss of taste or smell,

caused by SARS-CoV-2 virus as coronavirus 2019 or COVID-19

United States and its territories are required to report all results to the

necessary if there is a low likelihood of SARS-CoV-2 infection, such as

LumiraDx SARS-CoV-2 Ag Test does not differentiate between SARS-

Certificate of Compliance, or Certificate of Accreditation.

laboratories certified under the Clinical Laboratory Improvement

performance, including infection control decisions.

management decisions, including infection control decisions.

The results will be displayed on the Instrument screen

Result interpretation:

Error messages also include a

Touch-screen. Alert messages

be displayed on the Instrument

expected, repeat the QC Test and if the problems persists, do not report

Cleaning and disinfection of the Instrument should follow and be

Cleaning and disinfection

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Cleaning and disinfection

expected, repeat the QC Test and if the problems persist...
<table>
<thead>
<tr>
<th>Days since onset of symptoms</th>
<th>≤ 5 years</th>
<th>6 to 21 years</th>
<th>≥ 60 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>12%</td>
<td>8%</td>
<td>4%</td>
</tr>
<tr>
<td>1</td>
<td>95%</td>
<td>87%</td>
<td>92%</td>
</tr>
<tr>
<td>2</td>
<td>98%</td>
<td>99.3%</td>
<td>99.8%</td>
</tr>
<tr>
<td>3</td>
<td>99.7%</td>
<td>97.6%</td>
<td>99.8%</td>
</tr>
<tr>
<td>4</td>
<td>100%</td>
<td>99%</td>
<td>99.8%</td>
</tr>
<tr>
<td>5</td>
<td>100%</td>
<td>99%</td>
<td>99.8%</td>
</tr>
<tr>
<td>6</td>
<td>100%</td>
<td>99%</td>
<td>99.8%</td>
</tr>
</tbody>
</table>

For MERS-Coronavirus, high homology exists between the SARS-CoV-2 nucleocapsid protein and MERS-Coronavirus.

BLAST results for a panel of related pathogens, high homology, and low homology were used to estimate the likelihood of cross-reactivity with SARS-CoV-2 of organisms that were not available for wet testing. To determine if the LumiraDx SARS-CoV-2 Ag Test suffers from any high dose hook effect, increasing concentrations of the substances tested were used. The final concentration of the substances tested are documented in the Table below.
The LumiraDx SARS-CoV-2 Ag Test is a rapid microfluidic immunofluorescence assay for use with the LumiraDx Platform. Intended for the qualitative detection of the nucleocapsid protein antigen to SARS-CoV-2 directly from nasal swab and nasopharyngeal swab samples collected from individuals who are suspected of COVID-19 by their healthcare provider within twelve days of the onset of symptoms or from individuals without symptoms or other epidemiological reasons to suspect COVID-19.

Study the LumiraDx Platform User Manual and LumiraDx SARS-CoV-2 Ag Test Strip Product Insert thoroughly before using these Quick Reference Instructions or performing a test. This is not a complete product insert.

Operate the LumiraDx Platform at room temperature between 15°C and 30°C (59°F and 86°F) and 10% - 75% relative humidity. The extracted sample must be used within 5 hours of preparation when stored at room temperature. Extracted nasal or nasopharyngeal samples may be frozen at -80°C and used up to 5 days after freezing. Samples and extraction buffer must be at room temperature before testing. Check expiration date on outer test kit carton and each individual test package before using. Do not use any test components beyond its expiration date. Refer to the LumiraDx SARS-CoV-2 Ag Test Strip Product Insert for Sample Collection, Warning and Precautions, and Limitations.

LumiraDx SARS-CoV-2 Ag Test Kit Components

Test Strip

Extraction Vial and Dropper Lids

Preparing the sample

Collect a patient swab sample before following steps 1 – 4 of Running the Test.

Sample Collection and Handling: Proper sample collection and handling of anterior nasal and nasopharyngeal swabs is required to ensure accurate results (refer to product insert). Additional training or guidance is recommended if operators are not experienced with sample collection and handling procedures.

Cleaning and Disinfecting

Wipe the external surfaces of the LumiraDx Instrument with a soft, slightly damp cloth when it appears visibly dirty. Disinfect the Instrument after each patient test or if contamination is suspected and at least once per day when in use using LumiraDx approved materials. Details of LumiraDx approved disinfectant materials can be found at LumiraDx.com. Use the material until the surface of the Instrument is visibly wet. Allow the surface to remain wet for 1 minute and let air dry. Avoid USB ports and power inlet. Do not spray or pour solution directly onto the Instrument. Do not put any objects or cleaning materials into the Test Strip slot.
Running the Test

1. Select Patient Test from the Instrument Home Screen and enter patient details using the Keyboard or Barcode Scanner. See section 10 of the Platform User Manual for instructions on using the Barcode Scanner.

2. Remove the Test Strip from its pouch and hold by gripping only the blue portion. Do not bend the Test Strip or touch any part other than the blue portion.

3. When prompted, open the Instrument door and gently insert the Test Strip as far as it will go. The thick black alignment rib on the Test Strip should be on the left and line up with the black line on the Instrument. Do not apply the sample until prompted. Install the Lot Calibration Kit using a new Test Strip Lot for the first time. See section 2.8 of the Platform User Manual.

4. Select the appropriate sample type and confirm the test type.

5. Gently invert the Extraction Vial five times just before applying the sample to the Test Strip.

6. Apply one whole drop of the sample onto the Test Strip Sample Application Area when prompted by the Instrument.

7. Close the door when prompted to continue the test.

8. Results are displayed within 12 minutes of applying the sample. The left-hand image here shows a positive result for SARS-CoV-2 Ag and the right-hand image shows a negative result for SARS-CoV-2 Ag. Tap Finish to complete testing or tap Comment to leave a comment or to reject the Test, then follow prompts to return to the Home Screen. All test results must be read using the LumiraDx Instrument.

INTERPRETATION OF RESULTS

Positive Test Results: SARS-CoV-2 antigen present; does not rule out coinfection with other pathogens.

Negative Test Results: Negative results are presumptive, do not preclude infection and should not be used as the sole basis for treatment or other patient management decisions, including infection control decisions, particularly in the presence of clinical signs and symptoms consistent with COVID-19, or in those who have been in contact with the virus. It is recommended that negative results be confirmed by a molecular testing method, if necessary for patient management.

Invalid Results: If an issue occurs, a message will be displayed on the Instrument touch-screen. Alert messages include useful information and are highlighted by an orange banner. Error messages also include a symbol. All messages will contain a description of the Instrument status or error and an instruction. Error messages contain an identifying code that may be used for further troubleshooting purposes.

Quality Controls

To complete Quality Control assessment of the LumiraDx Instrument and SARS-CoV-2 Ag Test Strips, you must use the LumiraDx SARS-CoV-2 Ag Quality Control Pack which are available separately if the LumiraDx Antigen Quality Controls do not perform as expected, do not report patient results. Re-test using a new Test Strip if problems persist. Contact LumiraDx Customer Services on telephone number 1-888-586-4721.

In the USA, this product has not been FDA cleared or approved, but has been authorized by FDA under an EUA for use by authorized laboratories; use by laboratories certified under the CLIA, 42 U.S.C. §263a, that meet requirements to perform moderate, high or waived complexity tests. This product is authorized for use at the Point of Care (POC), i.e., in patient care settings operating under a CLIA Certificate of Waiver, Certificate of Compliance, or Certificate of Accreditation. This product has been authorized only for the detection of the virus that causes COVID-19 under Section 564(b)(1) of the Federal Food, Drug and Cosmetic Act, 21 U.S.C. § 360bbb-3(b)(1), unless the declaration is terminated or authorization is revoked sooner.

This product has been authorized only for the detection of proteins from SARS-CoV-2, not for any other viruses or pathogens. In the USA, this product has not been FDA cleared or approved, but has been authorized by FDA under an EUA for use by authorized laboratories; use by laboratories certified under the CLIA, 42 U.S.C. §263a, that meet requirements to perform moderate, high or waived complexity tests. This product is authorized for use at the Point of Care (POC), i.e., in patient care settings operating under a CLIA Certificate of Waiver, Certificate of Compliance, or Certificate of Accreditation. This product has been authorized only for the detection of the virus that causes COVID-19 under Section 564(b)(1) of the Federal Food, Drug and Cosmetic Act, 21 U.S.C. § 360bbb-3(b)(1), unless the declaration is terminated or authorization is revoked sooner.

Customer Service

If the LumiraDx SARS-CoV-2 Ag Test or the LumiraDx Instrument do not perform as expected, contact LumiraDx Customer Services 1-888-586-4721 or customerservices.us@lumiradx.com

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For Emergency Use Authorization Only

In the USA, the LumiraDx SARS-CoV-2 Ag Test and the LumiraDx SARS-CoV-2 Ab Test have not been FDA cleared or approved but have been authorized by FDA under an EUA for use by authorized laboratories by laboratories certified under the CLIA, 42 U.S.C. §263a, that meet requirements to perform moderate, high or waived complexity tests. These products are authorized for use at the Point of Care (POC), i.e., in patient care settings operating under a CLIA Certificate of Waiver, Certificate of Compliance, or Certificate of Accreditation. These products have been authorized only for the detection of proteins from SARS-CoV-2 and the presence of total antibodies to SARS-CoV-2onitor any other viruses or pathogens. In the USA, the emergency use of these products are only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostics for detection and/or diagnosis of COVID-19 under section 564(b)(1) of the Federal Food, Drug, and Cosmetic Act, 21 U.S.C. §360bbb-3(b)(1), unless the declaration is terminated or authorization is revoked sooner.

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In the USA, this product has not been FDA cleared or approved but has been authorized by FDA under an EUA for use by authorized laboratories; use by laboratories certified under the CLIA, 42 U.S.C. §263a, that meet requirements to perform moderate, high or waived complexity tests. This product is authorized for use at the Point of Care (POC), i.e., in patient care settings operating under a CLIA Certificate of Waiver, Certificate of Compliance, or Certificate of Accreditation. This product has been authorized only for the detection of proteins from SARS-CoV-2 and total antibodies to SARS-CoV-2, not for any other viruses or pathogens. In the USA, - the emergency use of this product is only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostics for detection and/or diagnosis of the virus that causes COVID-19 under Section 564(b)(1) of the Federal Food, Drug and Cosmetic Act, 21 U.S.C. § 360bbb-3(b)(1), unless the declaration is terminated or authorization is revoked sooner.

Please note: Instructions are combined with example screenshots. Some screens may look different on the Instrument depending on the test or mode of operation. All screens, test names and results displayed in this Platform User Manual are intended only as examples.

- For in vitro Diagnostic Use
- Rx only
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Symbols

On the packaging and on the identification plate of the Instrument you may encounter the following symbols, shown here with their meaning:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>📌</td>
<td>Temperature limitation</td>
</tr>
<tr>
<td>🏷️</td>
<td>Manufacturer</td>
</tr>
<tr>
<td>🎰</td>
<td>In vitro diagnostic medical device</td>
</tr>
<tr>
<td>🚫</td>
<td>This product contains electrical and electronic components that may contain materials which, if disposed with general waste, could be damaging to the environment. Residents of the European Union must follow specific disposal or recycling instructions for this product. Residents outside the European Union must dispose or recycle this product in accordance with local laws or regulations that apply.</td>
</tr>
<tr>
<td>📜</td>
<td>Catalogue Number</td>
</tr>
<tr>
<td>📌</td>
<td>Serial Number</td>
</tr>
<tr>
<td>🚨</td>
<td>Caution - Consult Instructions for Use. Refer to safety-related warnings and precaution notes in the Instructions for Use accompanying this product, e.g. Platform User Manual, Test Strip Product Insert or Quality Control Pack Insert.</td>
</tr>
<tr>
<td>🦠</td>
<td>Indicates that the Instrument can be potentially infectious due to the samples or reagents used.</td>
</tr>
<tr>
<td>🌊</td>
<td>Direct current - Indicates that the Instrument is suitable for direct current only and to identify relevant terminals.</td>
</tr>
<tr>
<td>🌊</td>
<td>Universal Serial Bus (USB) Port</td>
</tr>
<tr>
<td>📢</td>
<td>Near Field Connectivity (NFC) - Indicates the presence of the Radio Frequency (RFID) reader.</td>
</tr>
<tr>
<td>✽</td>
<td>Identifies the power button to power on or power off the Instrument.</td>
</tr>
<tr>
<td>📖</td>
<td>Consult Instructions for Use</td>
</tr>
</tbody>
</table>
### Instrument icons and buttons

The icons and buttons that appear on the touch-screen during normal operation of the LumiraDx Instrument are shown here, along with their respective meanings.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Indicates the patient’s biological sample.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Return to the home screen.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Info button - used to reveal additional information, such as test or patient information.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Indicates which fields barcode scanning is available as a means of data input. When pressed as a button, displays barcode scanning instructions.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Indicates when the Instrument is connected to Connect Manager.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Indicates that the Instrument has an active connection to an Electronic Health Record (EHR).</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Indicates that the Instrument connection to an Electronic Health Record (EHR) is not active.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Notification - Highlights an area which requires attention.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Caution - Highlights an error or precautionary statement which requires attention. Refer to safety-related warnings and precaution notes in the Instructions for Use accompanying this product, e.g. Platform User Manual, Test Strip Product Insert or Quality Control Pack Insert.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Indicates the status of the battery.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Displayed when the battery is in a charging state.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Icon which acts as a button - clears the text input field of all data.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Indicates the high end of the touch-screen brightness slider.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Indicates the low end of the touch-screen brightness slider.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Volume (high)</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Volume (low)</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Indicates a text field which can perform a search function.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Indicates confirmation of a completed action.</td>
</tr>
<tr>
<td>Abbreviation</td>
<td>Full Form</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------</td>
</tr>
<tr>
<td>CDC</td>
<td>Centers for Disease Control and Prevention</td>
</tr>
<tr>
<td>EHR</td>
<td>Electronic Health Record</td>
</tr>
<tr>
<td>HCP</td>
<td>Health Care Professional</td>
</tr>
<tr>
<td>ID</td>
<td>Identification</td>
</tr>
<tr>
<td>QC</td>
<td>Quality Control</td>
</tr>
<tr>
<td>RFID</td>
<td>Radio-Frequency Identification</td>
</tr>
<tr>
<td>UK</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>USB</td>
<td>Universal Serial Bus</td>
</tr>
<tr>
<td>WHO</td>
<td>World Health Organization</td>
</tr>
<tr>
<td>HIS</td>
<td>Hospital Information System</td>
</tr>
<tr>
<td>LIS</td>
<td>Laboratory Information System</td>
</tr>
<tr>
<td>DOB</td>
<td>Date of Birth</td>
</tr>
</tbody>
</table>
Important safety information

Healthcare professionals need to adhere to standard precautions when using the LumiraDx Platform \(^1,2,3\). All parts of the LumiraDx Instrument and LumiraDx Test Strips should be considered potentially infectious after use and are capable of transmitting pathogens between patients and healthcare professionals \(^4\).

The Instrument should be disinfected at least once per day when in use or if contamination is suspected, unless recommended otherwise for specific tests\(^4\). The Instrument may only be used for testing multiple patients when standard precautions and the manufacturer’s disinfection procedures are followed. Full cleaning and disinfecting procedures are described in the “Cleaning and Disinfecting” chapter in this Platform User Manual.

A clean pair of gloves should be worn before testing each patient.

Wash hands thoroughly with soap and water before putting on a new pair of gloves and performing the next patient test.

Dispose of all Test Strips used for patient or Quality Control testing safely in accordance with local regulations and procedures.

The LumiraDx Instrument contains 2 USB ports that are for use with approved & supported LumiraDx USB devices only. DO NOT connect any unsupported devices into the USB ports.

The LumiraDx Instrument contains a neodymium magnet. Although the risk of interference with implanted devices such as pacemakers is minimal, we recommend that patients with an implanted device should maintain a distance of at least 15 cm between the LumiraDx Instrument and their heart device.

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Overview of the LumiraDx Platform

The LumiraDx Platform is a point of care system which is used for in vitro diagnostic tests. It comprises a portable LumiraDx Instrument and a LumiraDx Test Strip for the required test. This allows healthcare professionals to perform tests using small sample volumes and to view results quickly on the Instrument touchscreen. Information about test duration and test performance can be found in the LumiraDx Test Strip Product Inserts.

The LumiraDx Instrument is intended to be for multi patient use. The LumiraDx Instrument can be used in Standalone mode, providing test results on the touchscreen. Single or multiple Instruments can be connected to the LumiraDx Connect Manager for extended functionality and configuration. LumiraDx EHR Connect can enable the transfer of patient test results to the Electronic Health Record (EHR).

The LumiraDx Platform comprises:

<table>
<thead>
<tr>
<th>Contained within this packaging</th>
<th>Available separately</th>
</tr>
</thead>
<tbody>
<tr>
<td>- LumiraDx Instrument</td>
<td>- LumiraDx Test Strips</td>
</tr>
<tr>
<td></td>
<td>- LumiraDx Quality Controls</td>
</tr>
<tr>
<td></td>
<td>- LumiraDx Barcode Scanner</td>
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<tr>
<td></td>
<td>- LumiraDx Printer</td>
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<tr>
<td></td>
<td>- LumiraDx Carry Case</td>
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<tr>
<td></td>
<td>- Disinfectant Material — please refer to LumiraDx website for validated disinfectant materials</td>
</tr>
</tbody>
</table>

LumiraDx Connect diagnostic connectivity solution:

- LumiraDx Connect Manager
  - LumiraDx Connect App (for iOS and Android)
  - LumiraDx Connect Hub
- LumiraDx EHR Connect

The mode of operation and selection of Platform components is dependent on the following requirements of the organization:

- Types of tests to be performed
- Number of testing sites and users
- System administration, integration, and data transfer to the EHR
About this Platform User Manual

Read this LumiraDx Platform User Manual and the LumiraDx Test Strip Product Inserts carefully and completely before testing for the first time.

This Platform User Manual provides the information required to operate and care for the LumiraDx Instrument.

If error messages appear on the Instrument touch-screen, follow the instructions displayed or refer to the “Troubleshooting” chapter. For questions not answered in the LumiraDx Platform User Manual or Product Inserts, please contact Customer Services. Refer to the “Customer Services” chapter of this Platform User Manual for contact information.

Please note: Instructions are combined with example screenshots. Some screens may look different on the Instrument depending on the test or mode of operation. All screens, test names and results displayed in this Platform User Manual are intended only as examples.

This Platform User Manual highlights cautions and important information:

This symbol indicates a caution. Refer to safety-related warnings and precaution notes in the Instructions for Use accompanying this product, e.g. Platform User Manual, Test Strip Product Insert or Quality Control Pack Insert.
1 Introduction

1.1 Intended use

The LumiraDx Instrument (hereafter referred to as Instrument) is intended for use with the LumiraDx family of Test Strips (hereafter referred to as Test Strips) for the in vitro measurement of various analytes in a range of biological samples by trained healthcare professionals.

1.2 Important information

Read this LumiraDx Platform User Manual and the LumiraDx Test Strip Product Inserts carefully and completely before testing. Pay attention to the “Important safety information” at the start of this Platform User Manual before operating the Instrument. In addition, please watch the LumiraDx Platform Training Video available at kc.lumiradx.com.

1.3 Summary of the test procedure

To perform a patient test, the user is required to insert a Test Strip, apply a small sample volume of one drop, and close the Instrument door. Patient ID can be entered using the touch-screen keyboard or LumiraDx Barcode Scanner.

When the test process is complete, the result is displayed on the touch-screen and the user can optionally add a comment. Upon completion of the test, the Instrument stores the test result.

The Instrument provides visual and audible prompts throughout the test process.
1.4 Principles of operation

The Instrument automatically processes the Test Strip including sample movement, reagent mixing, thermal control and fluorescent reading of the reaction product and provides a calibrated, quantitative or qualitative result. Each Lot of Test Strips requires a LumiraDx Lot Calibration File, which provides the Instrument with the information required to process the test. The Lot Calibration File is installed by placing the RFID tag in the Test Strip Carton against the RFID reader in the Instrument.

1.4.1 Quality Assurance

The LumiraDx Instrument ensures the quality of test results obtained through the following features:

- Automated checks of the correct functioning of the Instrument at power on and during operation.
  - This includes electrical component operation, heater operation, battery charge state, mechanical actuators and sensors and optical system performance.
- Monitoring of Test Strip performance and controls during test runtime.
- Onboard Quality Control (OBC) assay.
- Ability to perform Quality Control Tests using LumiraDx Quality Controls to meet regulatory compliance requirements.
1.5 Storage and operating conditions

1.5.1 LumiraDx Test Strips

For specific information on Test Strip storage and operating conditions, refer to the relevant LumiraDx Test Strip Product Inserts.

1.5.2 LumiraDx Instrument

The Instrument is portable and can be used across a range of settings, such as care homes, primary care clinics, hospital wards and departments, pharmacy and laboratories. The Instrument is not intended for hand-held operation.

The Instrument can be stored or transported at a temperature between -10°C and 50°C (14°F and 122°F).

To power on and access the Instrument result history, operate the LumiraDx Instrument at a temperature between 15°C and 30°C (59°F and 86°F), and at a relative humidity between 10% and 90% (non-condensing). Specific test operating conditions may be more restrictive. Allow time for the Instrument to acclimatize to operating temperatures if it has been stored in a cold environment.

Always place the Instrument on a level, stable surface when powering up or performing a test. Testing should be performed in a location where the air vents located in the back of the Instrument will not be blocked, i.e. on a table top away from soft surfaces. The Instrument will display an error message if these operating conditions are not met.

Avoid placing the Instrument in direct sunlight. This may interfere with proper functioning of the Instrument.

Refer to the “Instrument Specifications” chapter of this Platform User Manual for additional information on operating conditions and complete Instrument specifications.
1.6 Warnings

Inserting Test Strips

- Do NOT touch Test Strip Sample Application Area.
- Do NOT bend or fold the Test Strip.
- Do NOT touch Test Strip contacts.
- Do NOT apply sample until prompted.

Performing a patient test

- Wear a clean pair of gloves before performing a patient test.
- Place the Instrument on a level, stable surface before performing a test.
- Apply sample AFTER inserting the Test Strip and the Instrument prompt.
- Do NOT apply more than one drop of sample.
- Close the Instrument door after applying the sample and the Instrument prompt.
- Do NOT touch the Test Strip until the test has finished and the result is displayed.
- Do NOT open the door or move the Instrument during the test or an error will result and the test result will not be saved.
- Dispose of all Test Strips used for patient testing safely in accordance with local regulations and procedures.
- Follow the test operating conditions in the LumiraDx Test Strip Product Insert.
- Follow the information on correct handling of Test Strips in the LumiraDx Test Strip Product Insert.
Performing a Quality Control test

- Place the Instrument on a level, stable surface before starting a test.
- Use only LumiraDx Quality Controls.
- Apply Quality Control solution AFTER inserting the Test Strip and the Instrument prompt.
- **Do NOT** apply more than one drop of Quality Control solution.
- Close the Instrument door after applying the Quality Control solution and the Instrument prompt.
- **Do NOT** touch the Test Strip until the test has finished and the result is displayed.
- **Do NOT** open the door or move the Instrument during the test or an error will result and the test result will not be saved.
- Dispose of all Test Strips used for Quality Control testing safely in accordance with local regulations and procedures.
- Follow the test operating conditions in the LumiraDx Test Strip Product Insert.
- Follow the information on correct handling of Test Strips in the LumiraDx Test Strip Product Insert.

Cleaning and disinfecting

- Always wear gloves whilst cleaning and disinfecting the Instrument.
- Always use LumiraDx recommended materials to disinfect the Instrument. Details of LumiraDx recommended materials can be found at lumiradx.com.
- **CAUTION:** Excessive liquid may damage the Instrument. It is important for the protection of the Instrument that exposure to excess moisture is prevented. All disinfection cloths and/or wipes should only be slightly damp, with any excess liquid being manually removed from the cloth or wipe before use.
- **CAUTION:** Liquid should not be placed in or near the vents on the bottom or back of the instrument.
- **CAUTION:** Alcohol wipes alone are not sufficient to disinfect the Instrument for blood-based samples, due to the potential presence of bloodborne pathogens.
- **Do NOT** spray or pour solution directly onto the Instrument.
- Following cleaning and disinfection, and before performing a patient test, change gloves and wash hands.
Instrument disposal

- Do NOT attempt to replace or reinstate the battery.

FCC Radiation Exposure

This Instrument Complies with FCC’s RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance follow the instructions below:

- The transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- Avoid direct contact to the antenna, or keep contact to a minimum while using the Instrument.
1.7 Precautions

Only operate the LumiraDx Instrument for its intended purpose and in accordance with this Platform User Manual and warnings. If the Instrument is used in a manner not specified in the Platform User Manual, protection provided by the equipment will be impaired. The LumiraDx Instrument (including power supply unit) is designed to operate within the manufacturer specifications. Do not exceed the manufacturer specifications when in use.

Avoidance of electrical shock, fire and explosions

- Use only the power supply unit that is provided with the Instrument. Use the appropriate power blade for the region. The correct power supply unit and adapter is required to maintain the safety and electromagnetic compatibility of the system.

- Always operate this Instrument on a clean, level and stable surface. Do not drop the Instrument. Ensure that air flow to the ventilation openings located on the back of the Instrument are not restricted.

- Risk of electrical shock. Do not operate the Instrument or the power supply unit if it has been opened, damaged or exposed to moisture, condensation or rain.

- Overheating can cause the battery pack to catch fire or explode.

Safe disposal

- Follow proper infection control guidelines for handling all specimens and related items. Properly dispose of all contaminated waste according to local regulations.

- The LumiraDx Instrument and its components must be treated as potentially biohazardous waste. Decontamination (i.e. a combination of processes including cleaning, disinfection and/or sterilization) is required before reuse, recycling, or disposal.

- Dispose of the system or its components according to the appropriate local regulations.
Electromagnetic interference

- Do not use the Instrument near strong electromagnetic fields, which could interfere with the proper operation of the Instrument.

Electromagnetic compatibility

- The Instrument has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. The Instrument generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this Instrument does cause harmful interference to radio or television reception, which can be determined by turning the Instrument off and on, the user is encouraged to try to correct the interference by one of the following measures:
  a. Reorient or relocate the receiving antenna.
  b. Increase the separation between the Instrument and receiver
  c. Connect the Instrument into an outlet on a circuit different from that to which the receiver is connected.
  d. Consult the dealer or an experienced radio/TV technician for help
1.8 Help and support

Information about using the LumiraDx Instrument can be found in this Platform User Manual. Information about the Test Strips and test performance can be found in the LumiraDx Test Strip Product Inserts and Quality Control Pack Inserts. Information about LumiraDx Connect Manager and LumiraDx EHR Connect can be found in the LumiraDx Connect User Manual.

The documents can also be found at kc.lumiradx.com.

If error messages appear on the screen, refer to the “Troubleshooting” chapter in this Platform User Manual. For questions not answered in the LumiraDx User Manuals or Product Inserts, please contact Customer Services. Refer to the “Customer Services” chapter of this Platform User Manual for contact information.
2 Getting Started

2.1 Unpacking

The LumiraDx Instrument package includes the following contents:

1. LumiraDx Instrument
2. LumiraDx Power Supply Unit


2.2 Powering the Instrument on and off

The Instrument must be fully charged before first use. It will take approximately 2 hours to fully charge the battery using the power supply unit provided.

Place the Instrument on a level, stable surface. Power on by briefly pressing the power button at the rear of the Instrument. You will hear the Instrument powering on and the display will be blank for several seconds. When prompted enter user ID and/or password to login.

The Instrument touch-screen will dim after 2 minutes of inactivity. Tap the touch-screen to restore the touch-screen brightness.

To power the Instrument off after use, press the power button at the rear of the Instrument for 2 seconds, and tap the screen message to confirm power off. The Instrument should be powered off for transportation and when not in use.

2.3 Instrument self-check

The Instrument will perform a self-check when starting up. Ensure that the Instrument is on a level, stable surface during this process. If the Instrument door is open, the Instrument will prompt to close the door before performing the self-check. If a Test Strip is inserted at this time, the Instrument will prompt to remove the Test Strip and close the door. The self-check will not proceed until the door is closed.
2.4 User ID

There are two types of identification used with the Instrument:

**General user**

Allows general users to use the Instrument to perform patient and Quality Control tests, view result history, and adjust preferences including screen brightness and sounds.

**Administrator**

The administrator has additional rights to Instrument settings including language, time and date if the Instrument is being operated in standalone mode. If the Instrument is being managed in a connected mode then these settings will be downloaded from Connect Manager.

2.5 Operating mode and first time setup

The language and current date and time will need to be set by the administrator prior to performing a patient test. Other sound and display preferences can be set by any user.

Settings will automatically be downloaded to the Instrument if connecting to LumiraDx Connect Manager. Refer to the “Instrument operation” chapter of this Platform User Manual for more information on first time setup.
2.6 The LumiraDx Instrument

The Instrument is used in conjunction with the LumiraDx family of Test Strips for the *in vitro* quantification of various analytes in a range of biological samples.
2.7 Power supply

The LumiraDx Instrument contains a rechargeable non-removable battery. If the battery is critically low, the Instrument will prompt to connect the power supply unit. It will take approximately 2 hours to fully charge the battery. The Instrument can be operated while charging the battery.

During operation, the Instrument touch-screen always displays the battery power level and provides an alert when the battery level is low. To save power when battery operated, the Instrument will automatically power off after 55 minutes, unless the touch-screen is tapped. When the Instrument powers off, all result records will remain in the Instrument memory and any Instrument settings will be maintained.

Refer to the “Instrument Specifications” chapter of this Platform User Manual for additional information on operating conditions and complete Instrument specifications.
2.8 LumiraDx Lot Calibration File installation

LumiraDx Lot Calibration Files are required to provide the Instrument with the information needed to perform diagnostic tests. Every manufactured Lot of Test Strips has a unique Lot Calibration File. This contains information about the test method, the Lot number, the calibration data and expiration date.

Lot Calibration File installation is performed manually. Locate the RFID reader by looking for the (_NEAR_1_symbol) symbol on the side of the Instrument. To install a new Lot Calibration File, hold the back of the Test Strip Carton to the (_NEAR_1_symbol) symbol for 3 seconds to install. When the Lot Calibration File is installed the Instrument will sound (if sounds are turned on in the instrument settings) and a confirmation message will be displayed.

The Instrument will prompt to install the Lot Calibration File when inserting a new Test Strip Lot. Once installed, the Instrument will have all the information required to process the test, and any future tests from the same Lot of Test Strips.

**RFID reader**

Locate (_NEAR_1_symbol) symbol on instrument.

**Installation**

Touch back of Test Strip Carton (_NEAR_1_symbol) symbol to install.

**Confirmation**

The Instrument will sound and a confirmation message will be displayed.
2.9 Extended functionality and operating modes

The LumiraDx Instrument can be used in Standalone mode, or two Connected modes: “Managed” and “EHR Connected” (meaning connected to the organization’s electronic health record). Refer to the LumiraDx Connect User Manual for further information.

**Standalone**

Run patient tests and quality control tests.

Store test results together with time, date and patient ID.

**Managed**

Configure single or multiple Instruments.

Create WorkGroups and user login credentials.

Manage compliance and governance functions.

**EHR Connected**

Integrate with Electronic Health Record for transfer of patient test results.

View patient results in your LIS or HIS.
3. Preparation for Testing

All samples are potentially infectious and are capable of transmitting pathogens between patients and healthcare professionals.

3.1 Handling Test Strips

When you are ready to perform a test, select a Test Strip and check the expiry date. Discard the Test Strips if they are past the expiration date. If within the expiry date open the Test Strip Carton, take out one Test Strip, and remove it from the foil pouch from the end indicated by the tear triangles. Refer to the LumiraDx Test Strip Product Insert for further information on handling and stability.

3.2 Inserting and removing Test Strips

Hold the Test Strip by gripping the blue label end with the label facing upward.

Line up the black alignment rib on the Test Strip with the black line on the Instrument. Insert the Test Strip gently as far as it will go. The Instrument will sound when the Test Strip is detected if sounds are turned on in the Instrument settings (see section 4.5).

To remove a Test Strip from the Instrument, gently pull the blue label and pull straight out.

- Do NOT touch Test Strip Sample Application Area.
- Do NOT bend or fold the Test Strip.
- Do NOT touch Test Strip contacts.
Test Strip contacts

Alignment rib

Line up black line on Test Strip with black line on Instrument.

Test type

Sample Application Area

Apply sample or Quality Control solution AFTER inserting Test Strip.

Note: Test Strip may appear differently.
3.3 Sample collection and application

When collecting any type of sample, follow universal collection precautions and guidelines according to your organization. Refer to Test Strip Product Insert for information on sample collection and processing. For collection of capillary fingerstick samples: Before lancing ask the patient to rinse their hands in warm water and dry them. This is good practice to remove any residue and to increase the blood flow in the finger.

Details of LumiraDx recommended transfer tubes and swabs are available at lumiradx.com and sample application training videos are available at kc.lumiradx.com.

Applying a sample to the Test Strip

Apply one drop of the sample to the test strip. Ensure that the sample is applied centrally and completely fills the sample application area in one clean drop.

When the sample is detected the Instrument will sound and a confirmation message will be displayed.

The touchscreen of the LumiraDx Instrument will request the user to immediately close the door (Note: you have 10 seconds only to close the door).

Do NOT apply more than one drop of sample.

Do NOT touch the Test Strip until the test has finished and the result is displayed.

3.4 Quality Control solution application

Refer to LumiraDx Quality Control Pack Inserts for information on testing with LumiraDx Quality Controls.
4. Instrument Operation

The LumiraDx Instrument can be used in three modes; Standalone, Managed or EHR Connected.

This chapter describes how to perform first time setup, set preferences, perform patient and Quality Control tests, and view result history. Extended functionality for Connected Instruments is also described.

Please note:

• Instructions are combined with example screenshots. Some screens may appear differently depending on the test or mode of operation. All screens, test names and results displayed in this Platform User Manual are intended only as examples.

• You can only hear the sounds on the LumiraDx Instrument when they are turned on. This Platform User Manual presumes that the sounds are turned on.

4.1 Home Screen

- **Patient Test**: Perform a patient test.
- **Result History**: View previous test results.
- **Settings**: Preferences and administrator settings.
- **Quality Control**: Perform Quality Control tests.
- **Logout**: Logout of the Instrument.
4.2 Settings Menu

General user settings menu

All users can set display and sound preferences in the Settings menu. Refer to the “Instrument Operation” chapter in this Platform User Manual for instructions.

Administrator settings menu

The administrator can set date and time. Refer to the “Instrument Operation” chapter in this Platform User Manual for instructions.

The About screen provides information on Instrument software and hardware versions, and serial number. For Connected Instruments the screen will also display the Organization, Instrument and WorkGroup names.

Factory Reset deletes all data currently stored on the Instrument, including result history, settings and Lot Calibration Files.
4.3 Standalone Instrument First Time Setup

For Standalone mode Instruments the language and current date and time will need to be set by the administrator prior to performing a patient test. Other sound and display preferences can be set by any user.

Administrator and general user passwords for Standalone operation are supplied with your LumiraDx Instrument.

1. Power on

Power on the Instrument by pressing the power button at the rear of the Instrument. You will hear the Instrument powering on, and the display will be a blank black screen for several seconds before starting up. If the screen is just dimmed tap the touch-screen to wake up the Instrument.

2. Enter Password

Tap the password field to display the keyboard.

Enter password (using administrator password supplied) and tap 'Login' to complete the login.
3. Set language

The language is set to English by default. To set a different language go to ‘Settings’ and tap ‘Language’.

Choose a language from the list for the text appearing on the display. The currently set language is ticked.

Tap ‘Done’ to save and return to the Settings menu.

4. Set date and time

Go to ‘Settings’ and tap ‘Date and Time’.

Tap the date field and use the selection wheel to set the current date. Tap ‘Enter’.

Tap the time field and use the selection wheel to set the current time. Tap ‘Enter’.

Tap ‘Done’, then check the date and time are correct and tap ‘Confirm’ to save.

Return to the home screen and tap ‘Logout’.
4.4 Connected Instrument First Time Setup

Connected system setup should be completed by the administrator on Connect Manager. Refer to the LumiraDx Connect User Manual for further information.

Power on by pressing the power button at the rear of the Instrument. You will hear the Instrument powering on and the display will be blank for several seconds before starting up. Follow the steps for Standalone first-time setup to set the language.

To download other Instrument settings, ensure the Instrument is within range of a LumiraDx Connect Hub or a device running the LumiraDx Connect App (within approximately 10 metres). If appears at the top of the screen, the Instrument is connected to Connect Manager and the Instrument settings will download and install automatically.

Time, date, and language settings will be set automatically if the Instrument is in range of a LumiraDx Connect Hub and these settings will be greyed out in the settings menu.
Downloading settings for first time setup will take up to 4 minutes.

A ⛅ will appear at the top of the screen for EHR Connected Instruments. This integrates the LumiraDx Instrument with the existing Electronic Health Record for transfer of patient test results. Patient test results can then be viewed within the LIS or HIS.
4.5 Display and Sound Preferences

Display

In the Display menu the brightness of the display can be set.

Go to ‘Settings’ and tap ‘Display’. Use the slider to adjust the brightness.

Tap ‘Done’ to save and return to the Settings menu.

Sounds

In the Sounds menu the key clicks and audible alerts can be turned on or off.

Go to ‘Settings’ and tap ‘Sounds’. Set sounds on or off, or to set the volume using the slider.

Tap ‘Done’ to save and return to the Settings menu.
4.6 Performing a Patient Test

This Platform User Manual describes the basic patient test method for the LumiraDx Instrument. If there are differences in the test method for a particular diagnostic test, the Instrument will prompt at each step of the process. Please refer to the LumiraDx Test Strip Product Insert before performing a new test for specific test information.

Important Notes

ALWAYS

- Place the Instrument on a level, stable surface before starting a test.
- Apply sample **AFTER** inserting the Test Strip and the Instrument prompt.
- Follow the test operating conditions in the LumiraDx Test Strip Product Insert.
- Follow the information on correct handling of Test Strips in the LumiraDx Test Strip Product Insert.

To view test information during a patient test, or on the test result screen, tap the at the top of the touch-screen.

To cancel a patient test tap ‘Cancel’ at the top of the touch-screen and follow the Instrument prompts.
1. Power on and login

Power on the Instrument by pressing the power button at the rear of the Instrument. You will hear the Instrument powering on and the display will be a blank black screen for several seconds before starting up. If the display is dimmed tap the touch-screen to wake up the Instrument.

If using a Standalone Instrument with just a password field, tap the password field to display the keyboard.

Enter password and tap ‘Login’ to complete the login.

If using a Connected Instrument, tap the User ID field to use the keyboard to enter User ID. Alternatively, scan User ID using the Barcode Scanner. Refer to the “Ancillary devices” chapter in this Platform User Manual for scanning instructions.

Tap the password field to display the keyboard.

Enter password and tap ‘Login’ to complete the login.
2. Check date and time

Check that the date and time are correct. If not correct, the current date and time will need to be set by the administrator. Refer to "First time setup" in this chapter for more information.

3. Tap Patient Test

Tap the ‘Patient Test’ button on the home screen.

4. Enter patient details

Tap any field to use the keyboard to enter patient details, or scan the patient ID using the Barcode Scanner. Refer to the "Ancillary devices” chapter in this Platform User Manual for scanning instructions.

Use the ‘Enter’ button on the keyboard to move from field to field, or tap a field to enter additional details.

Complete all available patient details, then tap ‘Next’ to continue.

Note: Tap ‘Next’ if no patient details are available.
5. Using the Instrument in EHR Connected mode

If the Instrument has an active connection to the EHR, scan the Patient ID using the Barcode Scanner or search for the patient in the HIS or LIS by entering patient details, then tap ‘Search’

**Note**: If no patient details are available, tap ‘Search’ without adding any details. To search for a patient either the full Patient ID or Last Name must be entered.

---

**EHR Connect patient search**

If only one patient matches the details entered, the Instrument will show the ‘Confirm Patient Details’ screen. If between 2 and 5 patients match the search details entered, the list of matches will be shown. Select the correct patient from the search list.

**Note**: Tap ‘Skip’ to proceed without selecting one of the patients available in the search list.
No patient match

If the search times out, no patient matches are found, or more than 5 patients matches are found a message will display. Tap ‘proceed’ to proceed with the test without verifying the patient details or tap ‘cancel’ to go back and try a new search.

6. Confirm patient details

Check patient details are correct and tap ‘Confirm’ to proceed.
7. Open door and Insert Test Strip

The Instrument display will prompt to open the door and insert a Test Strip.

Remove a Test Strip from its packaging and hold with the blue label side facing upward.

Line up the black alignment rib on the Test Strip with the black line on the Instrument. Insert the Test Strip gently as far as it will go.

The Instrument will sound when the Test Strip is detected.

Do NOT touch Test Strip Sample Application Area.

Do NOT touch Test Strip contacts.

Do NOT apply sample until prompted.

8. Select sample type

Select the intended sample type from the list displayed.

Sample type is test type dependent (refer to the LumiraDx Test Strip Product Insert for more information).

Note: The Instrument will prompt to install the Lot Calibration File when inserting a new Test Strip Lot.

Note: Capillary Blood refers to both finger stick and transfer tube applications.
9. Confirm test and sample type

Check the test and sample type is correct and tap 'Confirm' to proceed.

**Note**: A progress bar will indicate if the Instrument is heating the Test Strip.

10. Apply sample

The Instrument display will prompt when to apply the sample.

Apply the sample directly to the circular Sample Application Area on top of the Test Strip. The sample must cover the entire Sample Application Area. Refer to the “Handling Test Strips” chapter in this Platform User Manual for sample application instructions.

The Test Strip draws up the sample by capillary action.

**Note**: Pay attention to the countdown for sample application to avoid test errors. This will be displayed as a countdown bar, and the Instrument will sound with 10 seconds remaining. If the sample is not applied by the end of the countdown the Instrument will display an error message.
When the sample is detected the Instrument will sound and a confirmation message will be displayed.

**Do NOT** apply more than one drop of sample.

**Do NOT** touch the Test Strip until the test has finished and the result is displayed.

11. **Immediately close door to continue**

The Instrument display will prompt to close the door.

**Note:** The countdown bar is only displayed for a few seconds. It is important to close the door quickly when prompted to avoid test errors. If the door is not closed by the end of the countdown the Instrument will sound and display an error message.
12. Test processing

The test will start and a progress bar will be displayed whilst the test is processing.

**Note:** Each test type has a different processing time.

**Do NOT** open the door or move the Instrument during the test or an error will occur and the test result will not be saved.
13. Review result

When the test is complete the result will be displayed on the screen (an example result is shown here).

If a LumiraDx Printer is connected to the Instrument, a ‘Print’ option will be available. Tap ‘Print’ to print the test result.

Review the result then tap ‘Finish’ or tap ‘Comment’ to add a comment, if required. A comment may be up to 50 characters in length.

To reject a test result, go to ‘Comment’ and tap ‘Reject result’. A comment must be added if a test result is rejected.

Once the desired comment(s) are entered tap ‘Done’ to return the result screen.

Tap ‘Finish’ to save the test result to Result History and complete the test.

**Note:** If operating the Instrument in a connected mode, you must tap ‘Finish’ for the result and any comments to be sent to the EHR.
4.7 Quality Control

The LumiraDx Instrument has a number of built-in QC functions. In addition to these, LumiraDx Quality Controls can be used to meet compliance requirements as required.

To perform QC testing with LumiraDx Quality Controls, you will need:

- LumiraDx Instrument
- LumiraDx Test Strips
- LumiraDx Quality Controls

Preparing for a QC test requires the same steps as preparing to perform a patient test. The only difference in the test method is the use of Quality Controls instead of patient samples.

Instruments being managed in a Connected mode may have the Quality Control policy set in the Connect Manager system to:

- **Off**
- **Mandatory** – If the Quality Control policy has expired users are unable to perform a patient test, until a Quality Control Test has been performed with a status of PASS.
- **Advisory** – If the Quality Control policy has expired a warning is displayed on the Instrument. Users can acknowledge the warning and proceed with testing.
- **Mandatory with Override** – If the Quality Control policy has expired, users are required to either run a Quality Control Test or override the expired Quality Control policy and run a patient test by entering a comment to explain the reason for the override.
The timing and frequency of mandatory Quality Control tests are configurable in Connect Manager by Policy:

- **Lot** – Users are required to perform a Quality Control test when using a new Test Lot on an Instrument for the first time.
- **Type** – Users are required to perform a Quality Control test when using a new Test Type on an Instrument for the first time.

For information on LumiraDx Quality Controls refer to the LumiraDx Quality Control Pack Inserts.

### 4.8 Performing a Quality Control test

This Platform User Manual describes the basic Quality Control test method for the LumiraDx platform. If there are differences in the test method for a particular QC test, the Instrument will prompt at each step of the process. Please refer to the LumiraDx Test Strip Product Insert before performing a new QC test for specific information.

**Important Notes**

**ALWAYS**

- Wear a clean pair of gloves before performing a QC test.
- Place the Instrument on a level, stable surface before performing a test.
- Use only LumiraDx Quality Controls.
- Apply Quality Control *AFTER* inserting the Test Strip and the Instrument prompt.
- Follow the test operating conditions in the LumiraDx Test Strip Product Insert.
- Follow the information on correct handling of Test Strips in the LumiraDx Test Strip Product Insert.

To view test information during a QC test, or on the test result screen, tap the \( \text{ } \) at the top of the touch-screen.

To cancel a QC test tap ‘Cancel’ at the top of the touch-screen and follow the Instrument prompts.
1. Power on and login

2. Check date and time

Check that the date and time are correct. If not correct, the current date and time will need to be set by the administrator. (Refer to “First time setup” in this chapter for more information).

3. Prepare Quality Control

Prepare the Quality Control according to the LumiraDx Quality Control Pack Insert.

4. Tap Quality Control

Tap the ‘Quality Control’ button on the home screen.

5. Select Quality Control Test

Tap ‘Quality Control Test’ from the Quality Control menu.
6. Open door and Insert Test Strip

The Instrument display will prompt to open the door and insert a Test Strip.

Remove a Test Strip from its packaging and hold with the blue label side facing upward.

Line up the black alignment rib on the Test Strip with the black line on the Instrument. Insert the Test Strip gently as far as it will go.

The Instrument will sound when the Test Strip is detected.

**Do NOT** touch Test Strip Sample Application Area.

**Do NOT** touch Test Strip contacts.

**Do NOT** apply Quality Control until prompted.

7. Confirm test type

Check the test type is correct and tap ‘Confirm’ to proceed.

**Note:** The Instrument will prompt to install the Lot Calibration File when inserting a new Test Strip Lot.
8. Select Quality Control level

Select the intended Quality Control from the list displayed.

Please refer to the LumiraDx Quality Control Pack Insert for more information.

**Note:** The Instrument will prompt when to apply the Quality Control solution to the Test Strip.

9. Enter Quality Control Lot number

Tap the input field to use the keyboard to enter the 16 digit Quality Control Lot number, and tap ‘Next’ to continue.

Alternatively scan the Quality Control barcode using the Barcode Scanner. Refer to the “Ancillary devices” chapter in this Platform User Manual for scanning instructions.

**Note:** If the barcode from a different QC level or test from the one selected on the previous screen is entered an error message will display.
10. Apply Quality Control solution

The Instrument display will prompt to apply the Quality Control sample.

Apply the Quality Control sample directly to the circular Sample Application Area on top of the Test Strip. The solution must cover the entire application area. Refer to LumiraDx Quality Control Pack Inserts for additional information on testing with LumiraDx Quality Controls.

**Note:** Pay attention to the countdown for sample application to avoid test errors. This will be displayed as a countdown bar. If the sample is not applied by the end of the countdown, the Instrument will sound and display an error message.

When the Quality Control sample is detected, the Instrument will sound and a confirmation message will be displayed.

**Do NOT** apply more than one drop of Quality Control sample.

**Do NOT** touch the Test Strip until the test has finished and the result is displayed.
11. Immediately close door to continue

The Instrument display will display a prompt to close the door.

The test will start and a progress bar will be displayed whilst the test is processing.

**Note:** Pay attention to the countdown for closing the door to avoid test errors. This will be displayed as a countdown bar for only a few seconds. If the door is not closed by the end of the countdown the Instrument will sound and display an error message.

12. QC test processing

The QC test will start and a progress bar will be displayed whilst the test is processing.

**Note:** Each test type has a different processing time.

**Do NOT** open the door or move the Instrument during the test or an error will occur and the test result will not be saved.
13. Review QC result

When the QC test is complete the result will be displayed on the screen. An example result is shown here, which shows that the correct result has been obtained for all assays for this QC level.

Review the result then tap ‘Finish’ or tap ‘Comment’ to add a comment, if required. A comment may be up to 50 characters in length.

Once the desired comment(s) are entered tap ‘Done’ to return the result screen.

If a LumiraDx Printer is connected to the Instrument, a ‘Print’ option will be available. Tap ‘Print’ to print the test result.

Tap ‘Finish’ to save the test result to Result History and complete the test.

The range of results acceptable for each QC level is also detailed in the LumiraDx Quality Control Ranges Product Insert in the Test Strip Carton.

14. Remove and dispose of Test Strip

The Instrument will prompt to remove the Test Strip.

Gently pull the blue label end of the Test Strip to remove and dispose.

Close the Instrument door.

Dispose of all Test Strips used for Quality Control testing safely in accordance with local regulations and procedures.
15. Complete remaining QC levels

Multiple QC levels may be required depending on test type.

Refer to the LumiraDx Quality Control Pack Insert for more information on QC levels.

Repeat steps in “Performing a Quality Control test” to test any additional QC levels.

16. Mandatory Quality Control Policy

Connected Instruments with a Quality Control policy enabled will have an additional menu item of ‘Quality Control Status’.
Quality Control test statuses are sorted by 'Recent Tests' meaning test lots for which patient tests or Quality Control tests have been performed recently. 'Other Tests' are test lots which have not had a patient test or QC test performed for more than 90 days.

Note: QC statuses can also be filtered by test type.

The Quality Control level selection screen will also show the status of each QC level as well as the date of any recently performed QC tests.

After completing a QC test level, the Instrument will return to the QC level selection page until all QC levels have been completed.
If a user attempts to perform a patient test using a lot for which a mandatory Quality Control test is due, the Instrument will display an alert message and prompt the user to perform a Quality Control test.
4.9 Result History

The LumiraDx Instrument can save 1000 patient or QC test results, together with respective time, date and comments. If the Instrument memory is full, the oldest result is automatically deleted.

1. Power on and login

2. Tap Result History

To view Patient or QC test results, tap ‘Result History’.

3. Review test results

All entries are shown in date order, with the newest at the top. Test results can be filtered by selecting Patient Tests, QC Tests, Rejected Tests or Invalid Tests.

Test results are marked as Invalid if a system error occurs during test processing. Refer to the “Troubleshooting” chapter of this Platform User Manual for information on errors.

Scroll through the list and tap any entry to view the test result in full.

Search for a patient test result by entering the Patient ID, First Name or Last Name in the search bar from either the Patient Tests, Rejected Tests or Invalid Tests screen.

Note: A search for a partial Patient ID, First Name or Last Name will only work for the start of the search term.
Any patient or QC test result can be printed from the test result details screen by tapping ‘Print’ when a LumiraDx Printer is connected to an Instrument USB port.

EHR Connected Instruments will indicate whether a test result has been sent to the electronic health record.

A 🚨 symbol on the home screen indicates that one or more test results have not yet been sent to the EHR.
The Result History list will indicate whether test results have been sent to the EHR or not with ‘sent’ and ‘not sent’.

- **JANE MEYER**
  - DOB: 02 Feb 1985  Gender: Female
  - Patient ID: 2_21985
  - SARS-CoV-2 Ab: Not Sent

- **AMBER MILLER**
  - DOB: 23 Dec 1945  Gender: Female
  - Patient ID: 23_121945
  - SARS-CoV-2 Ab: Sent

- **WIKTOR BENTON**
  - DOB: 28 Mar 1990  Gender: Male
  - Patient ID: 2_21985
  - SARS-CoV-2 Ab: Not Sent

- **ABDULahi VAZQUEZ**
  - DOB: 07 Sep 1989  Gender: Other
  - Patient ID: 2_21985
  - SARS-CoV-2 Ab: Not Sent
4.10 Onboard Quality Control

In addition to the system checks performed by the Instrument during start up and within the test procedure, some LumiraDx Tests also run an onboard quality control assay alongside the patient test.

When a test has completed and the OBC test has passed, the test result will be displayed as normal. Tapping on the on the result screen at the end of the test or from the Result History view shows additional details about the test, including ‘Control: Valid’ which confirms that the OBC has passed.

If the OBC fails, then an error message will be displayed and no test result will be returned. Follow the on screen instructions to dispose of the Test Strip and start a new test. If the problem persists, contact Customer Services.
A test which fails the OBC will appear in the ‘Invalid’ filter of the Results History.
5. Cleaning and Disinfecting

It is important to observe the disinfection guidelines of your organization. Below are procedures for cleaning and disinfecting the Instrument. Failure to follow these procedures may cause Instrument malfunction.

The difference between cleaning and disinfecting:

Cleaning is the physical removal of dirt or other foreign material from the Instrument surface.

Disinfecting is the chemical destruction of harmful microorganisms (pathogens) from the Instrument.

When should the Instrument be cleaned and disinfected?

The Instrument should be cleaned whenever it is visibly dirty. It is recommended to disinfect the Instrument with LumiraDx recommended disinfecting material at least once per day when in use or if contamination is suspected, unless recommended otherwise for specific tests. For more information, please refer to the Product Insert for the Test you are performing.

What should be cleaned and disinfected?

The following parts of the Instrument can be cleaned and/or disinfected:

- The area around the Test Strip slot
- The entire Instrument housing
- The Instrument touch-screen
- All surfaces of the Instrument door

Cleaning and disinfecting

- Always wear gloves whilst cleaning and disinfecting the Instrument.
- Always use LumiraDx recommended materials to disinfect the Instrument. Details of LumiraDx recommended materials can be found at lumiradx.com.
- CAUTION: Excessive liquid may damage the Instrument. It is important for the protection of the Instrument that exposure to excess moisture is prevented. All disinfection cloths and/or wipes should only be slightly damp, with any excess liquid being manually removed from the cloth or wipe before use.
- CAUTION: Liquid should not be placed in or near the vents on the bottom or back of the instrument.
- CAUTION: Alcohol wipes alone are not sufficient to disinfect the Instrument for blood-based samples, due to the potential presence of bloodborne pathogens.
- Do NOT spray or pour solution directly onto the Instrument.
- Following cleaning and disinfection, and before performing a patient test, change gloves and wash hands.
5.1 Cleaning procedure

Always wear gloves to clean the Instrument.

Wipe the external surfaces of the Instrument with a soft cloth that is slightly water dampened, but not wet.

**CAUTION:** Excessive liquid may damage the Instrument.

Dispose of cleaning materials in accordance with local biohazardous waste disposal procedures.

5.2 Disinfection procedure

5.2.1 General guidance on disinfecting the Instrument

Always wear gloves to disinfect the Instrument.

Before disinfecting the Instrument for the first time, it is necessary to remove the protective screen cover by peeling it off.

**CAUTION:** Excessive liquid may damage the Instrument.

Prior to disinfecting, it is necessary to manually squeeze any excess liquid from disinfecting wipes or cloth. The wipe or cloth should be slightly damp, but not dripping or wet prior to disinfecting.

**CAUTION:** Liquid should not be placed in or near the vents on the bottom or back of the instrument.

It is recommended to disinfect the Instrument with LumiraDx recommended disinfecting material at least once per day when in use or if contamination is suspected, unless recommended otherwise for specific tests. For more information, please refer to the Product Insert for the Test you are performing.

5.2.2 Disinfection guidance – if only testing blood-based samples

It is recommended to disinfect the Instrument after each patient sample, or if contamination is suspected.

**CAUTION:** Excessive liquid may damage the Instrument.

It is important for the protection of the Instrument that exposure to excess moisture is prevented. All disinfection cloths and/or wipes should only be slightly damp, with any excess liquid being manually removed from the cloth before use.

**CAUTION:** Alcohol wipes alone are not sufficient to disinfect the Instrument for blood-based samples, due to the potential presence of bloodborne pathogens.

**Procedure:**

1) Using a LumiraDx recommended disinfecting material, wipe the external surfaces of the Instrument while taking care to avoid the door hinges, Test Strip inlet, back and bottom vents, power cord, and USB port.

2) Allow the disinfectant at least 5 minutes contact time before testing the next sample.

3) Dispose of disinfectant materials in accordance with local biohazardous waste disposal procedures.

The Instrument is now ready to perform another test.

5.2.3 Disinfection guidance – if only testing swab-based samples

It is recommended to disinfect the Instrument at least once per day, or if contamination is suspected.

**CAUTION:** Excessive liquid may damage the Instrument. It is important for the protection of the Instrument that exposure to excess moisture is prevented. All disinfection cloths and/or wipes should only be slightly damp, with any excess liquid being manually removed from the cloth before use.

**Procedure:**

1) Using a LumiraDx recommended disinfecting material, wipe the external surfaces of the Instrument while taking care to avoid the door hinges, Test Strip inlet, back and bottom vents, power cord, and USB port.

2) Allow the disinfectant at least 1 minute contact time before testing the next sample.

3) Dispose of disinfectant materials in accordance with local biohazardous waste disposal procedures.

The Instrument is now ready to perform another test.

For technical assistance or questions and information about LumiraDx approved materials go to lumiradx.com.
6. Software Updates

LumiraDx will contact administrators when software updates are available. Software updates will be provided on USB memory sticks and should be installed on each Instrument by the administrator. Installing the latest updates will help ensure that the LumiraDx Instrument operates with optimum performance and that the latest features are available. This section describes the steps required to complete the software update.

**Note:** Ensure that the Instrument is connected to a power supply before performing a software update.

### 6.1 Check software version

1. Check the software version currently installed on the Instrument

Login to the Instrument from the home-screen tap the settings button

2. Tap the About button

![Image of LumiraDx software update process]
6.2 Performing a software update


2. While the instrument is powered OFF, remove the USB Memory Stick from its packaging and insert it into the USB port nearest to the power button as shown in the image at right.

3. Leave the USB Memory Stick inserted until after step 6.


Power on the Instrument by pressing the power button at the rear of the Instrument.

A progress bar on the Instrument display will indicate installation.

Once installation is completed the Instrument will power on as usual.

5. Allow the Instrument to start up and complete the self-test.

6. Once you reach the login screen, remove the USB stick.

**IMPORTANT:** Do not remove the USB Memory Stick before the login screen is shown.

**IMPORTANT:** Please save your USB Memory Stick in the event a re-installment of software update is required.
7. Troubleshooting

The LumiraDx Instrument regularly performs internal checks for unexpected and unwanted conditions. These may arise for technical reasons or due to handling errors.

If an issue occurs, a message will be displayed on the Instrument touch-screen. Alert messages include useful information and are highlighted by an orange banner. Error messages also include a symbol. All messages will contain a description of the Instrument status or error and an instruction. Error messages contain an identifying code that may be used for further troubleshooting purposes.

Follow the instruction to resolve the issue. If the issue is resolved, continue using the Instrument as required.

If errors occur frequently or the error persists, please note the error code and contact Customer Services. If the Instrument has been dropped, do not proceed with use. In this case, also contact Customer Services for advice. Refer to the “Customer Services” chapter of this Platform User Manual for contact information.

Example alert message:

Description and instruction

Tap ‘OK’ to proceed. Connect the power supply unit before the battery runs out.

Example error message: Error 002

Description and instruction

The Instrument door has been opened while running a test so the test cannot be completed.

Dispose of Test Strip, start a new test and follow the instructions on the display.

Example error message: Error 004

Description and instruction

Sample has been applied too early so the test cannot be completed.

Dispose of Test Strip, start a new test and follow the instructions on the display.

Example error message: Error 006

Description and instruction

When a test is performed the Instrument must be level and stationary.

Place the Instrument on a level, stable surface and start a new test.
Example error message: Error 016

Description and instruction
An action (for example closing the Instrument door) has not been completed within a set time period so the test cannot be completed.

Dispose of Test Strip, start a new test and follow the instructions on the display.

Example error message: Error 019

Description and instruction
The Hct value of the sample was detected to be out of range.

Check the allowed Hct range for the test type in the Test Strip Product Insert.

Example error message: Error 038

Description and instruction
Insufficient sample volume or Instrument has experienced a problem and cannot complete a test.

Dispose of the Test Strip, start a new test and follow the instructions on the application of samples in this User Manual. If the problem persists, contact Customer Services.

Example error message: Error 117

Description and instruction
Onboard control has failed so the Instrument will not display a result.

Power the Instrument off and try again. Contact Customer Services if the problem persists.
## Troubleshooting

Some conditions may occur that do not result in an error or alert message. If the troubleshooting steps below do not resolve the issue or the problem reoccurs contact Customer Services.

### Instrument does not power on

<table>
<thead>
<tr>
<th>If pressing the power button does not power on the Instrument:</th>
<th>1. Connect the power supply unit. Wait 15 minutes and press the power button.</th>
</tr>
</thead>
</table>

### Cannot login

<table>
<thead>
<tr>
<th>Do not have or know where to find the correct password:</th>
<th>1. Check tear out information sheet supplied with your LumiraDx Instrument for the login password, or contact the administrator.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2. Tap the password field to bring up the keyboard and enter the password. Tap ‘Login’ to proceed</td>
</tr>
</tbody>
</table>

### Cannot connect Instrument

<table>
<thead>
<tr>
<th>The Instrument is not displaying 🏛 symbol:</th>
<th>1. Check that the Instrument is within range of the LumiraDx Connect Hub or the device running the LumiraDx Connect App.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2. Ensure the LumiraDx Connect Hub is powered on and the green Connect light is on.</td>
</tr>
</tbody>
</table>

### Lot Calibration File is not installed

<table>
<thead>
<tr>
<th>Lot Calibration File is not installed:</th>
<th>1. Refer to the &quot;Getting Started&quot; chapter of this Platform User Manual for instructions on how to install the Lot Calibration File.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2. Ensure that the back of the Test Strip Carton is touching the 🏛 symbol on the side of the Instrument continually until the Instrument sounds and a confirmation message is displayed.</td>
</tr>
</tbody>
</table>
**Instrument does not detect the Test Strip**

| If the Test Strip is not detected and no message is displayed on the touchscreen: | 1. Check that the Test Strip is fully inserted.  
2. Check for damage to the Test Strip. If damaged discard and insert a new Test Strip. |

**The Instrument will not start the test**

| If the Instrument will not start the test after applying the sample or Quality Control solution: | Check the Instrument door is fully closed. |

**Incorrect date or time**

| If the date and time is incorrect: | Contact the administrator for “Connected” Instruments, or refer to the “First time setup” section of this Platform User Manual for instructions on setting date and time. |

**Patient test result is red**

| If the patient test result is displayed in red: | Test results that are above or below the analytic range are displayed in red and indicated by the symbols > (above) or < (below). |

**QC test failure**

| If the Quality Control test fails unexpectedly: | 1. Check the Quality Control solution type and level matches the test type and QC range information.  
2. Check the expiry date of the Quality Control solution.  
3. Refer to the Quality Control Pack Insert to ensure correct procedure is followed.  
Retest using a new Test Strip. Ensure the Test Strip and Quality Control solution are handled carefully to prevent any contamination. |
8. Maintenance and Disposal

The LumiraDx Instrument does not require user maintenance and has no serviceable parts. No attempt should be made to open the Instrument.

Changes or modifications not expressly approved by LumiraDx UK Ltd could void the user’s authority to operate the Instrument.

In case of Instrument failure or damage, or to arrange collection/disposal contact LumiraDx Customer Services.
## 9. Instrument Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature</td>
<td>15 °C to 30 °C (59 °F to 86 °F)</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-10 °C to 50 °C (14 °F to 122 °F)</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>10 % to 90 % rh (non-condensing). Specific Relative Humidity conditions may be more restrictive please refer to the individual Product Insert for the specific test you are performing.</td>
</tr>
<tr>
<td>Maximum altitude</td>
<td>3,000 m (9,840 feet) operating</td>
</tr>
<tr>
<td>Data storage</td>
<td>1000 test results with date, time and comments</td>
</tr>
<tr>
<td></td>
<td>Lot calibration files</td>
</tr>
<tr>
<td>Communications</td>
<td>2 x USB ports</td>
</tr>
<tr>
<td></td>
<td>RFID Reader 13.56MHz, 0 dBi (EIRP)</td>
</tr>
<tr>
<td></td>
<td>Bluetooth Low Energy 2.4GHz ISM band, 2400MHz to 2483.5 MHz, 0.5dBm (ERP)</td>
</tr>
<tr>
<td>Power supply unit</td>
<td>Input 100-240V / 50-60 Hz / 1.0 – 0.5A</td>
</tr>
<tr>
<td></td>
<td>Output 12V / 3A</td>
</tr>
<tr>
<td>Battery</td>
<td>Lithium Ion Polymer 7.4V 5000 mAh</td>
</tr>
<tr>
<td></td>
<td>Approx. 20 tests per charge cycle</td>
</tr>
<tr>
<td>Dimensions</td>
<td>210 x 97 x 73 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1,100 g</td>
</tr>
</tbody>
</table>
10. Ancillary Devices

10.1 LumiraDx Barcode Scanner

In order to configure the LumiraDx Barcode Scanner please contact LumiraDx Customer Services.

The LumiraDx Barcode Scanner can be used to scan patient ID details when performing a patient test. It can also be used to scan Quality Control Lot numbers. If using a Connected Instrument, the Barcode Scanner can be used to scan User ID for login.

**Note:** The same User ID must be assigned to the user in Connect Manager.

- **Barcode symbol on screen** indicates that you can scan for data entry. Tap symbol for Barcode Scanner instructions.

**Scanning distance**

Hold scanner approximately 15 cm from barcode.

**Scanner lights**

**Scan button**

Press button to scan. A successful scan will be indicated by a beep sound and green light.

Insert USB connector into one of the USB ports at the rear of the Instrument.
LumiraDx Barcode Scanner Cradle

Attaching LumiraDx Barcode Scanner cradle to Instrument

Detaching LumiraDx Barcode Scanner cradle from Instrument

**Note:** Correct orientation of Barcode Scanner cradle
LumiraDx Desktop Stand
10.2 LumiraDx Printer

The LumiraDx Printer can be used to print a patient or Quality Control test result onto an adhesive label.

Patient and QC tests result can be printed from the Instrument result page following a test, or from the test details page in the Instrument Result History.

The Printer comes with a roll of adhesive paper already installed. Open the paper cup lid and then close ensuring that the paper passes through the paper exit slot. Replacement label rolls can be purchased from LumiraDx.

Insert the rechargeable batteries into the Printer followed by the USB cable and power cable. Fully charge the batteries for 16 hours before first use by connecting the Printer to a power source.

To use the Printer insert the USB connector into one of the USB ports at the rear of the Instrument and press the Printer power button.

LumiraDx Printer

Replacing the batteries
Connecting the printer

Printer status light

<table>
<thead>
<tr>
<th>LED Indication</th>
<th>Condition</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>Printer On</td>
<td>-</td>
</tr>
<tr>
<td>Off</td>
<td>Printer Off</td>
<td>-</td>
</tr>
<tr>
<td>* * * *</td>
<td>Paper Out</td>
<td>Fit new paper</td>
</tr>
<tr>
<td>** ** ** **</td>
<td>Thermal head too hot</td>
<td>Allow head to cool</td>
</tr>
<tr>
<td>*** *** *** ***</td>
<td>Battery cut-out (no charge remaining)</td>
<td>Recharge batteries</td>
</tr>
<tr>
<td>**** **** ****</td>
<td>Battery low (approx. 20% charge remaining)</td>
<td>Recharge batteries</td>
</tr>
</tbody>
</table>
10.3 LumiraDx USB Memory Stick

LumiraDx USB Memory Stick used for Instrument software updates.

**Note:** Right side USB port nearest the power button at the rear of the Instrument must be used.
10.4 LumiraDx Connect Hub

Refer to LumiraDx Connect User Manual and Connect Hub Pack Insert for information and setup instructions.

10.5 LumiraDx Connect App

Refer to LumiraDx Connect User Manual for information and setup instructions.
11. Customer Services

For product inquiries and technical support please contact LumiraDx Customer Services by email: customerservices.US@lumiradx.com, telephone +1-888-586-4721 or at lumiradx.com.

11.1 Warranty

Warranty – Limited Warranty.

LumiraDx Instrument – 2 Year Warranty from date of purchase.

LumiraDx Test Strips – As per shelf life.

For the applicable warranty period, LumiraDx warrants, to the original purchaser only, that each product shall be (i) of good quality and free of material defects, (ii) function in accordance with the material specifications referenced in the Product Insert or Platform User Manual, and (iii) approved by the proper governmental agencies required for the sale of products for their intended use (the “limited warranty”). If the product fails to meet the requirements of the limited warranty, then as customer’s sole remedy, LumiraDx shall either repair or replace, at LumiraDx’s discretion, the Instrument or Test Strips, as applicable. Except for the limited warranty stated in this section, LumiraDx disclaims any and all warranties, express or implied, including but not limited to, any warranty of merchantability, fitness for a particular purpose and non-infringement regarding the product. LumiraDx’s maximum liability with any customer claim shall not exceed the net product price paid by customer. Neither party shall be liable to the other party for special, incidental or consequential damages, including, without limitation, loss of business, profits, data or revenue, even if a party receives notice in advance that these kinds of damages might result.

The limited warranty above shall not apply if the customer has subjected the LumiraDx Instrument or Test Strips to physical abuse, misuse, abnormal use, use inconsistent with the LumiraDx Platform User Manual or Product Insert, fraud, tampering, unusual physical stress, negligence or accidents. Any warranty claim by customer pursuant to the limited warranty shall be made in writing within the applicable limited warranty period.

Details of relevant Intellectual Property regarding this product can be found at lumiradx.com/IP.

Please contact Customer Services for further information about the LumiraDx Instrument third party copyright, privacy notice and general legal statements.
12. References


13. Compliance

13.1 Environmental Practices

LumiraDx complies with all environmental legislation in each country where the product is sold. Please refer to lumiradx.com for further information.

13.2 Compliance

The LumiraDx Platform is for use under the Food and Drug Administration’s Emergency Use Authorization only.

The LumiraDx Instrument has been tested and is compliant with:

CAN/CSA-C22.2 No. 61010-1-12 - Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements.


UL 61010-1 (Third Edition) - Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements.

The LumiraDx SARS-CoV-2 Ag Quality Controls (hereafter referred to as Quality Controls) are liquid quality controls to be used with the LumiraDx Instrument (hereafter referred to as the Instrument) and the LumiraDx SARS-CoV-2 Ag Test (hereafter referred to as SARS-CoV-2 Ag Test).

Read these instructions thoroughly before using the Quality Controls. Respect and store the Control Vials in their original container at 2°C to 8°C. Open the Control Vials only when you are performing tests. Once opened, the vial has a 30 day expiry. Exercise the normal precautions required for handling all laboratory materials. Refer to the product safety data sheet for risk and safety phrases. All components of this kit can be discarded as biohazard waste. For accreditation requirements and the user laboratory’s standard quality control procedures, please refer to the appropriate Platform User Manual.

The LumiraDx SARS-CoV-2 Ag Quality Controls are intended for liquid quality control testing performed on the LumiraDx Instrument when used with the LumiraDx SARS-CoV-2 Ag Test Strips. The Quality Controls provide users with assurance that the device is performing within specification. The controls are specifically formulated and manufactured to ensure that the LumiraDx SARS-CoV-2 Ag Test (hereafter referred to as SARS-CoV-2 Ag Test) results are working properly and all handling has been done correctly when the test results obtained are displayed as PASS.

Symbols glossary:
- **Temperature limitation**
- **IVD**
- **Manufacturer**
- **For In Vitro Diagnostic Use Only**
- **Catalogue number**
- **Lot number**
- **Use-by date**
- **Indicates that potential biological risks are associated with the Quality Control material.**
- **Refer to instructions for use.**
- **Indicates a negative control.**
- **Indicates a positive control**

**Summary and explanation of the test**

The LumiraDx SARS-CoV-2 Ag Quality Controls are liquid quality controls. The controls are specifically formulated and manufactured to ensure that the device is performing within specification. The test results obtained are displayed as PASS if the instrument is working properly and all handling has been done correctly when the test results obtained are displayed as PASS.

**Expected results**

The Instrument displays the result as Pass or Fail. The result is automatically saved in the memory of the Instrument. The system is working properly and all handling has been done correctly when the test results obtained are displayed as PASS.

**Use-by date**

Use-by date – indicates the date after which the unopened IVD Quality Control material can not be used.

**Manufacturer**

LumiraDx SARS-CoV-2 Ag Quality Controls Pack

**Carton contents**

- 2 x 0.5ml vial SARS-CoV-2 Ag Positive Control
- 2 x 0.5ml vial SARS-CoV-2 Ag Negative Control
- 40 Transfer pipettes (20µl)
- LumiraDx SARS-CoV-2 Ag Quality Control Pack Insert

**Materials required but not provided with the Control Carton:**

- LumiraDx Instrument
- LumiraDx SARS-CoV-2 Ag Test Strips
- LumiraDx Connect - if connectivity required (refer to LumiraDx Connect User Manual)

**Getting ready to test**

You will need the LumiraDx Instrument and the following supplies:

- LumiraDx SARS-CoV-2 Ag Test strip(s)
- LumiraDx SARS-CoV-2 Ag Positive or Negative Quality Controls
- Transfer pipette

**Preparing the Quality Controls**

The liquid controls are supplied ready to use. The controls are specifically formulated and manufactured to ensure that the device is performing within specification. The test results obtained are displayed as PASS if the instrument is working properly and all handling has been done correctly when the test results obtained are displayed as PASS.

**Handling the LumiraDx SARS-CoV-2 Ag Test Strips**

To ensure that you are using the LumiraDx SARS-CoV-2 Ag Test and the Instrument correctly, read the appropriate SARS-CoV-2 Ag Test Strip Product Insert or at lumirdx.com under the relevant Intellectual Property regarding our products can be found at lumirdx.com/IP.

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**Manufacturer information**

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In the USA, this product has not been FDA cleared or approved but has been authorized by FDA under an EUA for use by authorized laboratories; use by laboratories certified under the CLIA, 42 U.S.C. §263a, that meet requirements to perform moderate, high or waived complexity tests. This product is authorized for use at the Point of Care (POC), i.e., in patient care settings operating under a CLIA Certificate of Waiver, Certificate of Compliance, or Certificate of Accreditation. This product has been authorized only for the detection of proteins from SARS-CoV-2, not for any other viruses or pathogens. In the USA, the emergency use of this product is only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use in vitro diagnostics for detection and/or diagnosis of the virus that causes COVID-19 under Section 564(b)(1) of the Federal Food, Drug, and Cosmetic Act, 21 U.S.C. § 360bb-b(2)(b)(1), unless the declaration is terminated or authorization is revoked sooner.

**For product inquiries please contact LumiraDx Customer Services by email: customerservices.US@lumirdx.com or telephone 1-888-586-4721**

Any adverse results experienced with the use of this product, and/or quality problems should also be reported to LumiraDx Customer Services by email: customerservices.US@lumirdx.com or at lumirdx.com.

**Return policy**

If there is a problem with the LumiraDx SARS-CoV-2 Ag Quality Controls Pack you may be asked to return them. Before returning any test pack, obtain a return authorization number from LumiraDx Customer Services. This return authorization number must be on the shipping container for return. For ordinary returns following purchase, please contact LumiraDx Customer Services for terms and conditions.

**Limited warranty**

LumiraDx SARS-CoV-2 Ag Quality Controls Pack – As per shelf life.

For the applicable warranty period, LumiraDx warrants that each product shall be (i) of good quality and free of material defects, (ii) function in accordance with the material specifications referenced in the pack insert, and (iii) approved by the proper governmental agencies required for the sale of products for their intended use (the “limited warranty”). If the product fails to meet the requirements of the limited warranty, then as the customer’s sole remedy, LumiraDx shall either repair or replace, at LumiraDx’s discretion, the LumiraDx SARS-CoV-2 Ag Quality Controls Pack. Except for the limited warranty stated in this section, LumiraDx disclaims any and all warranties, express or implied, including but not limited to, any warranty of merchantability, fitness for a particular purpose and noninfringement regarding the product. LumiraDx’s maximum liability, with any customer claim shall not exceed the net product price paid by the customer. Neither party shall be liable to the other party for special, incidental or consequential damages, including, without limitation, loss of business, profits, data or revenue, even if it a party receives notice in advance that these kinds of damages might result.

The Limited Warranty above shall not apply if the customer has subjected the LumiraDx SARS-CoV-2 Ag Test Strips and Controls Pack to physical abuse, misuse, abnormal use, use inconsistent with the LumiraDx Platform User Manual, SARS-CoV-2 Ag Test Product Insert or SARS-CoV-2 Ag Quality Controls Pack Insert, fraud, tampering, unusual physical stress, negligence or accidents. Any warranty claim by Customer pursuant to the Limited Warranty shall be made in writing within the applicable Limited Warranty period.