

For Use Under an Emergency Use Authorization (EUA) Only





Disclaimer

- This product has not been FDA cleared or approved, but has been authorized for emergency use by FDA under an EUA for use by authorized laboratories.
- This product has been authorized only for the detection and differentiation of nucleic acids from SARS-CoV-2, influenza A, influenza B, and respiratory syncytial virus (RSV), not for any other viruses or pathogens.
- 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 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.



Training Agenda

Xpert® Xpress CoV-2/Flu/RSV plus

- Reagents
- Specimen collection, storage, & handling
- Kit storage and handling
- Cartridge Preparation
- Quality Controls
- Results analysis
- Discussion





Training Objectives

At the end of the training, users will be able to:

Properly store and handle the Xpert® Xpress CoV-2/Flu/RSV plus kit

Follow proper laboratory safety precautions

Collect and store appropriate specimen(s)

Prepare a cartridge and run the Xpert® Xpress CoV-2/Flu/RSV plus test

Report the various software generated results

Understand the Xpert® Xpress CoV-2/Flu/RSV plus control strategy



The Cepheid Solution



- Detection of SARS-CoV-2, FluA, FluB, RSV RNA
- On-board internal controls for each sample
 - Probe Check Control (PCC)
 - Sample Processing Control (SPC)
- Closed cartridge system minimizes risk of contamination
- EAT (Early Assay Termination for SARS-CoV-2 ADF only)
- On-demand results
- Random access



Intended Use

- The Xpert® Xpress CoV-2/Flu/RSV *plus* test is a rapid, multiplexed real-time RT-PCR test intended for the simultaneous qualitative detection and differentiation of RNA from SARS-CoV-2, influenza A, influenza B, and/or respiratory syncytial virus (RSV) in either nasopharyngeal swab, anterior nasal swab or nasal wash/ aspirate specimens collected from individuals suspected of respiratory viral infection, consistent with COVID-19, by their healthcare provider. Clinical signs and symptoms of respiratory viral infection due to SARS-CoV-2, influenza, and RSV can be similar.
- Testing of nasopharyngeal swab, anterior nasal swab, or nasal wash/aspirate specimens run on the GeneXpert Dx and GeneXpert Infinity systems, is limited to laboratories certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA), 42 U.S.C. § 263a, that meet requirements to perform high or moderate complexity tests.
- Testing of nasopharyngeal or anterior nasal swab specimens run on the GeneXpert Xpress System (Tablet and Hub Configurations), 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.



Intended Use (continued)

- Results are for the simultaneous detection and differentiation of SARS-CoV-2, influenza A virus, influenza B virus and RSV nucleic acids in clinical specimens and is not intended to detect influenza C virus. The SARS-CoV-2, influenza A, influenza B and RSV RNA is generally detectable in upper respiratory specimens during the acute phase of infection. Positive results are indicative of active infection, but do not rule out bacterial infection or co-infection with other pathogens not detected by the test.
- Clinical correlation with patient history and other diagnostic information is necessary to determine patient infection status. The agent detected may not be the definite cause of disease. Laboratories within the United States and its territories are required to report all SARS-CoV-2 results to the appropriate public health authorities.
- Negative results do not preclude SARS-CoV-2, influenza A virus, influenza B virus and/or RSV infection and should not be used as the sole basis for treatment or other patient management decisions. Negative results must be combined with clinical observations, patient history, and/or epidemiological information.



Intended Use (continued)

 Testing with the Xpert® Xpress CoV-2/Flu/RSV plus test is intended for use by trained operators who are proficient in performing tests using either GeneXpert Dx, GeneXpert Infinity and/or GeneXpert Xpress systems. The Xpert Xpress CoV-2/Flu/RSV plus test is only for use under the Food and Drug Administration's Emergency Use Authorization.



Good Laboratory Practice Review

Personal Protective Equipment (PPE)

Lab Bench area

Wear clean lab coats, safety glasses, and gloves

Change gloves between processing samples

Clean work surfaces routinely with:

√ 1:10 dilution of household bleach*

√ 70% Ethanol Solution

* Final Active Chlorine concentration should be 0.5% regardless of the household bleach concentration in your country

After cleaning, ensure work surfaces are dry

Specimens, Samples, and Kits Storage

Store specimens and sample away from kit to prevent contamination

Equipment

- Use filtered pipette tips when recommended
- Follow the manufacturer's requirements for calibration and maintenance of equipment



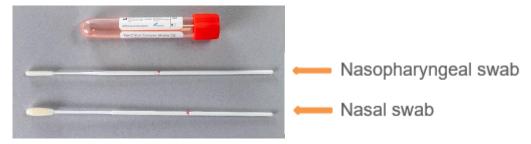


Specimen Collection

Specimen Type:

nasopharyngeal swab, anterior nasal swab, or nasal wash/ aspirate specimens*

Place specimen into 3mL of viral transport medium, 3mL of saline, or 2mL of eNAT™



Refer to the CDC Interim Guidelines for Collecting, Handling, and Testing Clinical Specimens from Persons Under Investigation (PUIs) for Coronavirus Disease 2019 (COVID-19) https://www.cdc.gov/coronavirus/2019-nCoV/lab/guidelines-clinical-specimens.html



^{*} Nasal wash/aspirate specimens are not applicable for Xpress Systems

Specimen Collection- Nasopharyngeal Swab

- 1. Insert the swab into either nostril, passing it into the posterior nasopharynx.
- 2. Rotate swab by firmly brushing against the nasopharynx several times.
- 3. Remove and place the swab into the transport tube.
- 4. Break swab at the indicated break line.
- 5. Cap the specimen collection tube tightly.





Specimen Collection- Nasopharyngeal Swab

Nasopharyngeal Specimen Collection

Open the package that contains the swab and transport medium tube. Set the tube aside before collecting the specimen.



Remove the cap from the tube. Insert the swab into the transport medium.



Open the swab wrapper and remove the swab, taking care not to touch the tip of the swab to any surface.



Break the swab shaft against the side of the tube at the scoreline

Avoid splashing contents on the skin. Wash with soap and water if exposed.



Hold the swab in your hand, pinching in the middle of the swab shaft on the

scoreline.



Replace the cap on the tube and close tightly.



Gently insert the swab into the nostril until you touch the posterior nasopharynx.



Rotate swab several times.



301-6052, Rev. H September 2021

@ 2016-2021 Cepheid. All rights reserved.

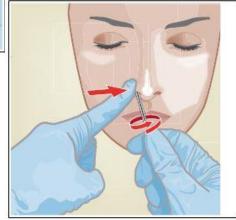




Specimen Collection- Nasal Swab

- Insert the nasal swab 1 to 1.5cm into the nostril.
- 2. Rotate the swab against the inside of the nostril for 3 seconds while applying pressure with a finger to the outside of the nostril.
- Repeat on the other nostril with the same swab.
- 4. Remove and place the swab into the transport tube.
- Break swab at the indicated break line.
- Cap the specimen collection tube tightly.







Specimen Collection- Nasal Swab

Nasal Swab Specimen Collection

Open the package that contains the swab and transport medium tube. Set the tube aside before collecting the specimen.



Repeat Step 4 on the other nostril with the same swab.

To avoid specimen contamination, do not touch the swab tip to anything after collecting the specimen.



Open the swab wrapper and remove the swab, taking care not to touch the tip of the swab to any surface.



Remove the cap from the tube. Insert the swab into the transport medium.

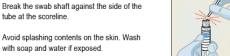


Hold the swab in your hand, pinching in the middle of the swab shaft on the scoreline.



Break the swab shaft against the side of the tube at the scoreline.

with soap and water if exposed.





Replace the cap on the tube and close tightly.



Do not insert the swabs more than 1-1.5 cm





@ 2018-2021 Cepheid. All rights reserved.





Specimen Collection- Nasal Wash/Aspirate

Transfer 600µL of the wash sample into the 3mL viral transport medium, 3mL of saline, or 2mL of eNAT™.



Specimen Transport and Storage

Sample type	Transport and Storage Conditions	
Transport tube containing nasopharyngeal swab, nasal swab, or nasal wash/aspirate viral transport medium or saline	±15 °C ≤ 48 hours ≤ 7 days	
Transport tube containing nasopharyngeal swab, nasal swab, or nasal wash/aspirate eNAT TM	±2 +8 ≤ 6 days	

Nasopharyngeal, nasal swab, and nasal wash/aspirate samples collected into saline and eNAT should not be frozen.





Xpert® Xpress CoV-2/Flu/RSV plus Requirements

GeneXpert® Dx and GeneXpert® Infinity System

- GeneXpert Dx software version 4.7b or higher
- For GeneXpert Infinity-80 and Infinity-48s systems: Xpertise software version 6.4b or higher

Test Kits

XP3COV2/FLU/RSV-10

Materials Required but not Provided

- 3mL viral transport media OR 3mL of saline OR 2mL of eNAT™ (Copan Catalog numbers #6U073S01 or #6U074S01)
- Personal Protective Equipment (PPE)
- 1:10 dilution of bleach
- 70% ethanol or denatured ethanol

Optional

- Uninterruptible Power Supply/ Surge Protector
- Printer



Kit Components

	Xpert [®] Xpress CoV-2/Flu/RSV <i>plus</i>	
Catalog Number	XP3COV2/FLU/RSV-10	
Tests per kit	10	
Flyer	Instructions to locate (and import) the ADF and EUA documentation such as the Product Insert on www.cepheid.com	
Transfer ninettes	10-12	

10-12 mansier pipelles

2-28°C **Storage**

The kit also includes printed copies of the Quick Reference Instructions, which should only be used with the GeneXpert Xpress System only.

Cartridges contain chemically hazardous substances-please see Instructions for Use and Safety Data Sheet for more detailed information.









Xpert® Xpress CoV-2/Flu/RSV plus Kit Storage and Handling

- Store test kits at 2-28°C. Do not use expired cartridges.
- Each single-use cartridge is used to process one test. Do not reuse processed cartridges.
- Do not open a cartridge until ready to use.
 - Start the test within 30 minutes of adding the sample to the cartridge.
- To avoid cross contamination during sample handling steps, change gloves between samples.





Warnings and Precautions

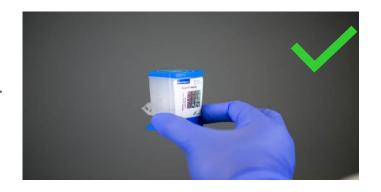
- Do not shake the cartridge
- Do not use a cartridge...:
 - if it appears wet, has leaked, or if the lid seal appears to have been broken
 - if it appears damaged
 - that has been dropped after removing it from packaging
 - that has been dropped or shaken after you have added the sample
 - that has a damaged reaction tube
 - that has been used; each cartridge is single-use to process one test
 - that has expired
- Do not reuse pipettes
- Do not reuse swabs



Proper Cartridge Handling Techniques

Correct

- Do not touch the reaction tube
- Keep the cartridge upright after seal has been broken
- Do not tilt when scanning the cartridge







Xpert® Xpress CoV-2/Flu/RSV plus

Cartridge Preparation

Sample Qualification – check if all items below are present:

- 1. Transport media containing swab (if applicable)
- Patient name or identifier on the tube
- 3. Cartridges and transport media are within the expiration date

Good Laboratory Practices:

- Wear clean gloves and lab coats.
- Change gloves between samples.
- Clean work surface with 1:10 dilution of bleach followed by 70% ethanol solution.

Xpert® Cartridge Preparation

- Xpert® Xpress SARS-CoV-2
- Xpert® Xpress SARS-CoV-2/Flu/RSV Xpert® Xpress CoV-2/Flu/RSV plus

Refer to the package insert for detailed instructions. precautions, and warnings

For a copy of the SDS, visit www.cepheid.com or www.cepheidinternational.com Contact information for all Cepheid Technical Support offices is available on our website www.cepheid.com/en/CustomerSupport.



- Take one Xpert cartridge for each sample.

2 Rapidly invert the tube 5 times.

3 Open the cartridge lid.



4 Using a clean 300 µL pipette (supplied), transfer 300 µL (one draw), of the sample to the



5 Close the cartridge lid.



6 Start the test within the timeframe specified in the package insert.



© 2020-2021 Cepheid. All rights reserved. For use under the Emergency Use Authorization (EUA) only.





Xpert® Xpress CoV-2/Flu/RSV plus

Cartridge Preparation



Take one Xpert cartridge for each sample.



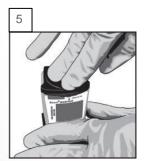
Rapidly invert the tube 5 times.



Open the cartridge lid.



Using a clean 300 µL pipette (supplied), transfer 300 µL (one draw) of the sample to the cartridge.



Close the cartridge lid.



Start the test within the timeframe specified in the Instructions For Use.



Run a Test- Start the test within 30 minutes

1 Create Test

GeneXpert



Start the test within 30 minutes after adding the sample to the cartridge

2 Scan barcode : Cartridge/ Patient and/or Sample ID



By default, do not click on Manual Entry or Cancel

3 Scan the cartridge

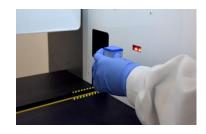


GeneXpert Infinity



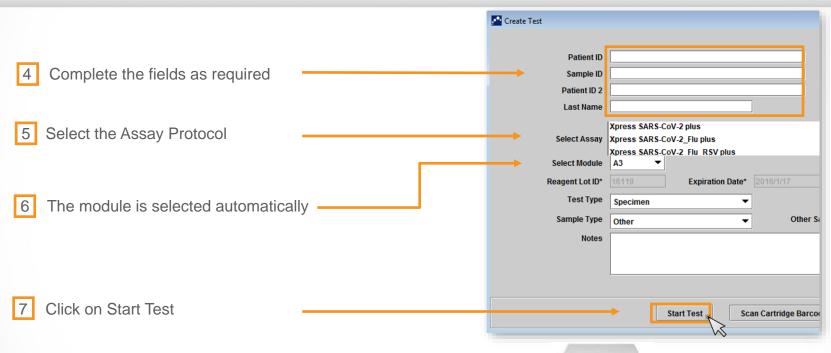
Place the cartridge on the conveyor within 30 minutes of adding the sample.





For complete details on how to run a test, refer to the Instructions For Use and the GeneXpert® Dx or Xpertise Manual.

Create a Test on GeneXpert® Dx Software

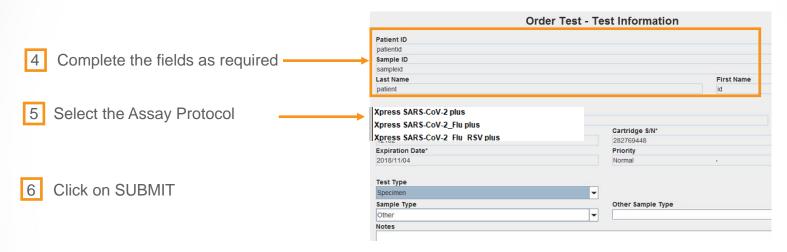


8 A green light will flash on the module Load the cartridge into the module and close the door



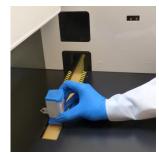


Create a Test on XpertiseTM Software



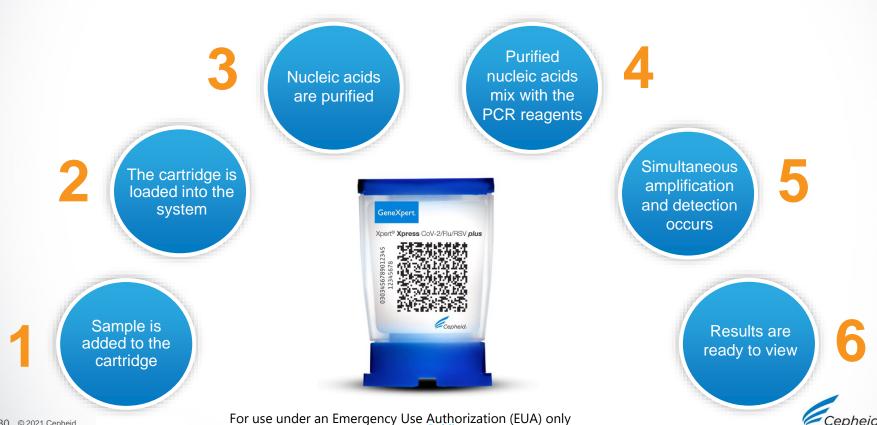


7 Place the cartridge onto the conveyor belt





Automated Xpert® Xpress CoV-2/Flu/RSV plus



Waste Disposal

Biological specimens, transfer devices, and used cartridges should be considered capable of transmitting infectious agents and require use of standard precautions.

Follow your institution's environmental waste procedures for proper disposal of used cartridges and unused reagents. These materials may exhibit characteristics of chemical hazardous waste requiring specific national or regional disposal procedures.

If national or regional regulations do not provide clear direction on proper disposal, biological specimens and used cartridges should be disposed per WHO [World Health Organization] medical waste handling and disposal guidelines.





Xpert® Xpress CoV-2/Flu/RSV plus Cartridge Controls

Xpert® Xpress CoV-2/Flu/RSV plus Quality Controls

- Each Xpert cartridge is a self-contained test device
- Cepheid designed specific molecular methods to include internal controls that enable the system to detect specific failure modes within each cartridge
 - Probe Check Controls (PCC)
 - Sample Processing Control (SPC)



Xpert® Xpress CoV-2/Flu/RSV plus Cartridge Controls

Probe Check Controls (PCC)

Before the PCR step, fluorescence signal is measured on all probes and compared with default factory settings to monitor

- reagent rehydration
- probe integrity

PCR tube filling

dye stability

Sample Processing Controls (SPC)

SPC ensures that the sample was processed correctly and verifies that sample processing was adequate.

- Verifies adequate extraction and amplification of the sample
- Verifies lysis and detects PCR inhibition
- Must be positive in a negative sample to be a valid test
- Can be positive or negative in a positive sample



Commercially Available External Controls

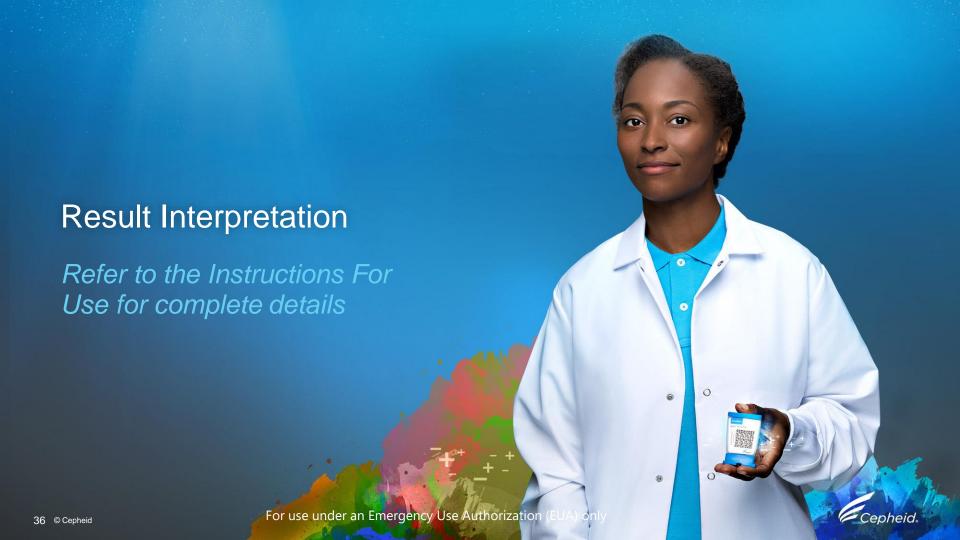
Zeptometrix	Description	Configuration	Storage
NATFRC-6C	Positive Control	6 x 0.5mL	2-8°C or -20°C
NATCV9-6C	Negative Control	6 x 0.5mL	2-8°C or -20°C

- Open the cartridge lid.
- 2. Rapidly invert the external control tube 5 times.
- Using a clean transfer pipette, transfer one draw (300µl) of the external control sample into the large opening (Sample Chamber) in the cartridge.
- 4. Close cartridge lid.

To minimize degradation of the control material, return any unused sample to the recommended storage conditions immediately after use.

- Many other vendors for quality control material are also available in addition to the one outlined above.
- External controls should be used in accordance with local, state accrediting organizations, as applicable





Assay Targets

- SARS-CoV-2
- Flu A1
- Flu A2
- Flu B
- RSV
- SPC



Early Assay Termination

- The Xpress SARS-CoV-2 plus test mode includes an Early Assay Termination (EAT) function that will provide earlier time to result in high titer specimens if the signal from the SARS-CoV-2 target reaches a predetermined threshold before the full 45 PCR cycles have been completed.
- When SARS-CoV-2 titers are high enough to initiate the EAT function, the SPC amplification curve may not be seen and its results may not be reported.



Results Summary SARS-CoV-2 ADF

Result displayed	SARS- CoV-2	SPC		
SARS-CoV-2 POSITIVE	+	+/-		
SARS-CoV-2, NEGATIVE	-	+		
INVALID	-	-		
ERROR	NO RESULT	NO RESULT		
No Result	NO RESULT	NO RESULT		



Results Summary SARS-CoV-2 and Flu ADF

Result displayed	SARS-CoV-2	Flu A1	Flu A2	Flu B	SPC
Influenza A POSITIVE	-	+	+/-	-	+/-
Influenza A POSITIVE	-	+/-	+	-	+/-
Influenza B POSITIVE	-	-	-	+	+/-
SARS-CoV-2 POSITIVE	+	-	-	-	+/-
SARS-CoV-2, Flu A, Flu B, NEGATIVE	-	-	-	-	+
INVALID	-	-	-	-	-
ERROR	NO RESULT	NO RESULT	NO RESULT	NO RESULT	NO RESULT
No Result	NO RESULT	NO RESULT	NO RESULT	NO RESULT	NO RESULT

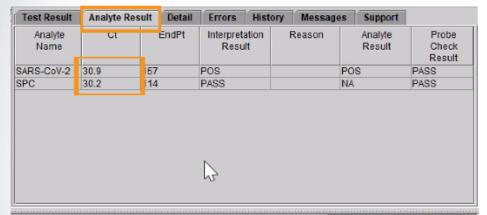


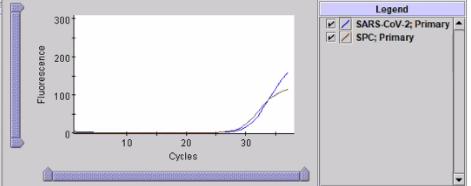
Results Summary SARS-CoV-2, Flu, and RSV ADF

Result displayed	SARS CoV-2	Flu A1	Flu A2	Flu B	RSV	SPC
Influenza A POSITIVE	-	+	+/-	-	-	+/-
Influenza A POSITIVE	-	+/-	+	-	-	+/-
Influenza B POSITIVE	-	-	-	+	-	+/-
RSV POSITIVE	-	-	-	-	+	+/-
SARS-CoV-2 POSITIVE	+	-	-	-	-	+/-
SARS-CoV-2, Flu A, Flu B, RSV NEGATIVE	-	-	-	-	-	+
INVALID	-	-	-	-	-	-
ERROR	NO RESULT	NO RESULT	NO RESULT	NO RESULT	NO RESULT	NO RESULT
No Result	NO	NO	NO	NO	NO	NO



SARS-CoV-2 POSITIVE





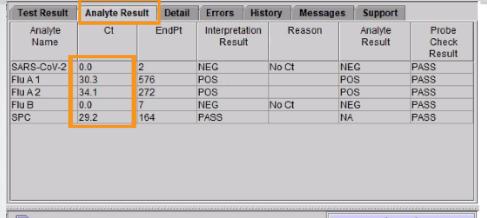
- SARS-CoV2- target RNA is detected
- SPC: NA; SPC is ignored because target amplification occurred
- Probe Check: PASS; all probe check results pass

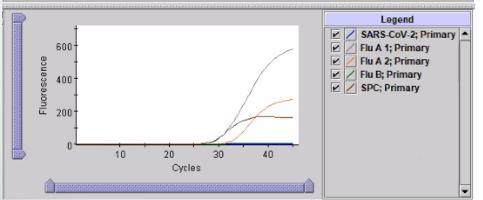


Test Result

SARS CoV2 Negative, Influenza A Positive, Influenza B Negative



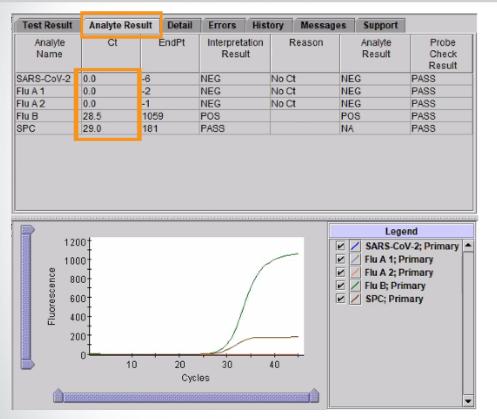




- SARS-CoV-2 not detected Flu A target RNA detected; Flu B target RNA not detected;
- SPC is ignored because target amplification occurred
- Probe Check: PASS; all probe check results pass



SARS CoV2 Negative, Influenza A Negative, Influenza B Positive

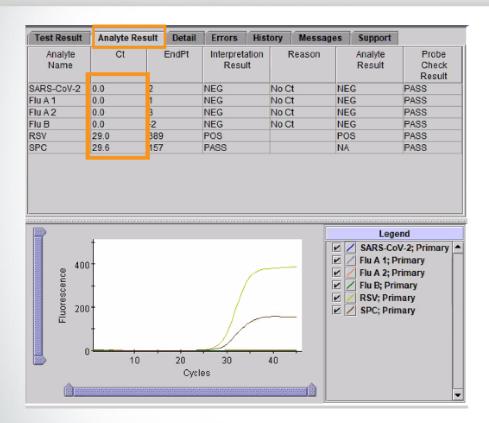


- SARS-CoV-2 not detected
 Flu A target RNA not detected;
 Flu B target RNA detected;
- SPC is ignored because target amplification occurred
- Probe Check: PASS; all probe check results pass



SARS CoV2 Negative, Influenza A Negative, Influenza B Negative, RSV Positive



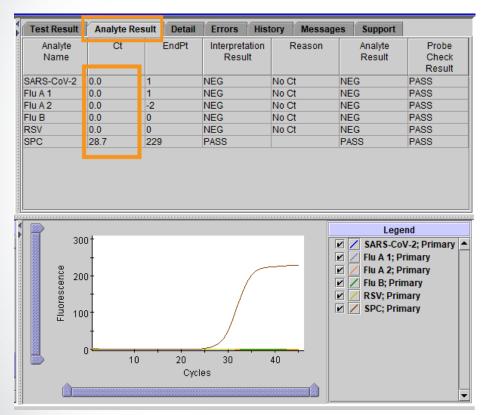


- SARS-CoV-2 not detected
 Flu A target RNA not detected
 Flu B target RNA not detected
 RSV target RNA detected
- SPC is ignored because target amplification occurred
- Probe Check: PASS; all probe check results pass



SARS CoV2 Negative, Influenza A Negative, Influenza B Negative, RSV Negative





- SARS-CoV-2 not detected
 Flu A target RNA not detected
 Flu B target RNA not detected
 RSV target RNA not detected
- SPC: PASS; SPC has a Ct within the valid range and endpoint above the minimum setting
- Probe Check: PASS; all probe check results pass



Limitations

- Performance of the Xpert Xpress CoV-2/Flu/RSV plus has only been established in nasopharyngeal swab specimens. Use of the Xpert Xpress CoV-2/Flu/RSV plus test with other specimen types has not been assessed and performance characteristics are unknown.
- Nasal swabs (self-collected under supervision of, or collected by, a healthcare provider) are considered acceptable specimen types for use with the Xpert Xpress CoV-2/Flu/RSV plus test but performance with these specimen types has not been established.
- The clinical performance has not been established in all circulating variants but is anticipated to be reflective of the prevalent variants in circulation at the time and location of the clinical evaluation. Performance at the time of testing may vary depending on the variants circulating, including newly emerging strains of SARS-CoV-2 and their prevalence, which change over time.
- The performance of this device has not been assessed in a population vaccinated 47 ©2020@inst COVID-19

- As with any molecular test, mutations within the target regions of Xpert Xpress CoV-2/Flu/RSV plus could affect primer and/or probe binding resulting in failure to detect the presence of virus.
- As with any molecular test, mutations within the target regions of the Xpert Xpress CoV-2/Flu/RSV plus test could affect primer and/or probe binding resulting in failure to detect the presence of virus or the virus being detected less predictably.
- This test cannot rule out diseases caused by other bacterial or viral pathogens.
- The performance of this test was validated using the procedures provided in this package insert only. Modifications to these procedures may alter the performance of the test.
- Erroneous test results might occur from improper specimen collection; failure to follow the recommended sample collection, handling, and storage procedures; technical error; or sample mix-up. Careful compliance with the instructions in this insert is necessary to avoid erroneous results.

- False negative results may occur if virus is present at levels below the analytical limit of detection.
- Negative results do not preclude SARS-CoV-2, influenza or RSV infection and should not be used as the sole basis for treatment or other patient management decisions.
- Results from the Xpert Xpress CoV-2/Flu/RSV plus test should be correlated with the clinical history, epidemiological data, and other data available to the clinician evaluating the patient.
- Viral nucleic acid may persist in vivo, independent of virus infectivity. Detection of analyte target(s) does not imply that the corresponding virus(es) are infectious or are the causative agents for clinical symptoms.
- This test has been evaluated for use with human specimen material only.
- This test is a qualitative test and does not provide the quantitative value of detected organism present.
- This test has not been evaluated for patients without signs and symptoms of respiratory tract infection.

- This test has not been evaluated for monitoring treatment of infection.
- This test has not been evaluated for screening of blood or blood products for the presence of SARS-CoV-2, influenza or RSV.
- The effect of interfering substances has only been evaluated for those listed within the labeling. Interference by substances other than those described can lead to erroneous results.
- Results from analytical studies with contrived co-infected samples showed potential for competitive interference of influenza B or RSV A at low concentrations (~3X LoD) when influenza A concentration is >1.7e5 RNA copies/mL or 1.7e6 RNA copies/mL, respectively.
- Cross-reactivity with respiratory tract organisms other than those described herein can lead to erroneous results.
- Recent patient exposure to FluMist® or other live attenuated influenza vaccines may cause inaccurate positive results.
- Zicam at 15% (w/v) may interfere with the detection of low levels of influenza B and PSV A.

 For use under an Emergency Use Authorization (EUA) only

 Cepheid.

- Nasopharyngeal and nasal swab samples collected into saline and eNAT should not be frozen.
- As the Xpert Xpress CoV-2/Flu/RSV plus test does not differentiate between the N2, RdRP and E gene targets, the presence of other coronaviruses in the B lineage, Betacoronavirus genus, including SARS-CoV-1 may cause a false positive result. None of these other coronaviruses is known to currently circulate in the human population.
- This test is not intended to differentiate RSV subgroups, influenza A subtypes or influenza B lineages. If differentiation of specific RSV or influenza subtypes and strains is needed, additional testing, in consultation with state or local public health departments, is required.

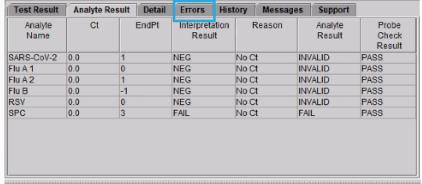


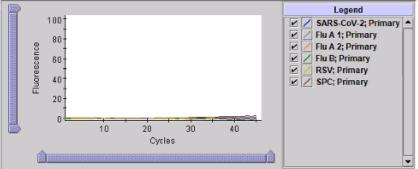


Factors That Negatively Affect Results

- Improper specimen collection
 - The performance of this assay with other specimen types or samples has not been evaluated
- Inadequate numbers of organisms are present in the specimen.
- Improper transport or storage of collected specimen
 - Storage and transport conditions are specimen specific
 - Refer to the Instructions For Use for the appropriate handling instructions
- Improper testing procedure
 - Modification to the testing procedures may alter the performance of the test
 - Careful compliance with the Instructions For Use is necessary to avoid erroneous results







SPC does not meet acceptance criteria. Presence or absence of the target RNAs cannot be determined.

- SPC: FAIL;
- SARS-CoV-2, Flu A, Flu B, RSV signals do not have a Ct within valid range and endpoint below minimum setting
- Probe Check PASS; all probe check results pass

Possible Causes

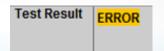
- Improper sample collection or preparation
- Presence of interfering substances in the sample

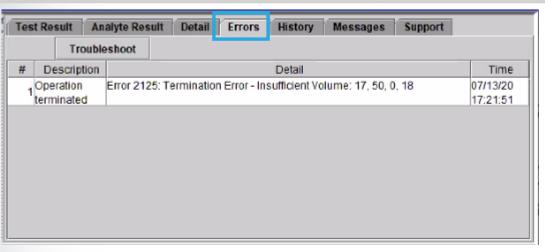
Solution

Repeat the test with a new cartridge



ERROR Result





Presence or absence of the target RNAs cannot be determined.

- SARS-CoV-2: NO RESULT
- Flu A: NO RESULT
- Flu B: NO RESULT
- RSV: NO RESULT
- SPC: NO RESULT
- Probe Check: FAIL; all or one of the probe check results fail

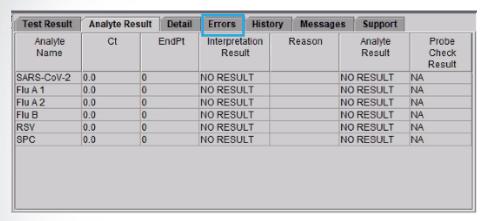
If the probe check passes, the error is caused by the maximum pressure limit exceeding the acceptable range or by a system component failure.

Solution

Repeat the test with a new cartridge.



NO RESULT



Presence or absence of the target RNAs cannot be determined.

A **NO RESULT** indicates that insufficient data was collected. For example, the operator stopped a test that was in progress.

Possible Causes

A NO RESULT indicates that insufficient data was collected.

- Test was stopped with stop test button
- Electrical failure

Solution

- Secure the power
- Repeat the test with a new cartridge.



Reasons to Repeat the Test

- An INVALID result indicates that the control SPC failed. The sample was not properly processed, PCR is inhibited, or the sample was not properly collected.
- An ERROR result could be due to, but not limited to, Probe Check Control failure, system component failure, no sample added, or the maximum pressure limits were exceeded.
- A NO RESULT indicates that insufficient data were collected. For example, cartridge
 failed integrity test, the operator stopped a test that was in progress, or a power failure
 occurred.
- If only one viral target is positive but coinfection with multiple targets is suspected, the sample should be re-tested with another FDA cleared, approved, or authorized test, if coinfection would change clinical management.



Retest Procedure

1

Discard used cartridge

Follow your institution's safety guidelines for disposal of cartridges

2



Obtain the residual specimen, mix according to Instructions For Use

If the leftover specimen volume is insufficient, or the retest continues to return an INSTRUMENT ERROR or NO RESULT, collect a new specimen.

3



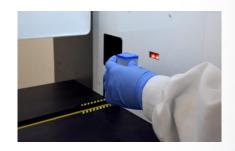
Obtain a new cartridge

Process the specimen per the Instructions For Use

4



Run the test on the System





Technical Assistance

- Before contacting Cepheid Technical Support, collect the following information:
 - Product name
 - Lot number
 - Serial number of the System
 - Error messages (if any)
 - Software version and, if applicable, Computer Service Tag number
- Log your case online using the following link http://www.cepheid.com/us/support : Create a Support Case



