

Laboratory Name:	
Laboratory Address:	
Date of this packet:	
Insert Revision:	IN435000 Rev. 3 2018/08

ID NOW[™] RSV Reorder # 435-000 (24 Test Kit) Laboratory Procedure

This procedure is intended to provide a ready outline reference for performance of the assay. These abbreviated directions for use are not intended to replace the complete package insert. Any modifications to this document are the sole responsibility of the Facility.

For use with the ID NOW[™] Instrument For use with nasopharyngeal specimens For *in vitro* Use Only R_x Only

CLIA Complexity: Waived

For Nasopharyngeal Swabs (Tested Directly or after Elution in Viral Transport Media)

A Certificate of Waiver is required to perform this test in a CLIA Waived setting. To obtain CLIA waiver information and a Certificate of Waiver, please contact your state health department. Additional CLIA waiver information is available at the Centers for Medicare and Medicaid website at www.cms.hhs.gov/CLIA.

Failure to follow the instructions or modification to the test system instructions will result in the test no longer meeting the requirements for waived classification.

1. Intended Use

The ID NOW[™] RSV assay performed on the ID NOW[™] Instrument is a rapid molecular *in vitro* diagnostic test utilizing an isothermal nucleic acid amplification technology for the qualitative detection of respiratory syncytial virus (RSV) viral RNA in direct nasopharyngeal swabs and nasopharyngeal swabs eluted in viral transport media from patients with signs and symptoms of respiratory infection. It is intended for use as an aid in the diagnosis of RSV in children <18 years and adults ≥60 years in conjunction with clinical and epidemiological risk factors.

2. Summary and Explanation of the Test

Respiratory Syncytial Virus (RSV) is the single most important cause of severe respiratory illness in infants and young children and the major cause of infantile bronchiolitis. It is the most frequent cause of hospitalization of infants and young children in industrialized countries. In the USA alone, 85,000 to 144,000 infants with RSV infections are hospitalized annually, resulting in 20% to 25% of pneumonia cases and up to 70% of bronchiolitis cases in the hospital. Global RSV disease burden is estimated at 64 million cases and 160,000 deaths every year.¹

RSV disease includes a wide array of symptoms, from rhinitis and otitis media to pneumonia and bronchiolitis. Spread of the virus from contaminated nasal secretions occurs via large respiratory droplets, and close contact with an infected individual or contaminated surface is required for transmission.



RSV is also a significant problem in the elderly, in persons with cardiopulmonary diseases and in immunocompromised individuals. Rates of RSV infection in nursing homes in the USA are approximately 5% to 10% per year with a 2% to 8% case fatality rate, amounting to approximately 10,000 deaths per year among persons >64 years of age.¹

Rapid diagnostics with increased sensitivity are essential for the reliable detection of RSV, allowing immediate, effective patient management. Rapid accurate diagnosis of RSV can lead to reduced hospital stays and costs, reduction in antimicrobial use, reduced secondary complications and effective implementation of infection control measures.²

ID NOW[™] RSV is a rapid (less than 15 minutes), instrument-based isothermal test for the qualitative detection of RSV A and RSV B from nasopharyngeal swabs and nasopharyngeal swabs eluted in viral transport media. The ID NOW[™] Instrument has a small footprint and easy to use graphical user interface for convenience within a busy hospital or point-of-care environment. The ID NOW[™] RSV kit contains all components required to carry out an assay for RSV on the ID NOW[™] Instrument.

3. Test Principle

ID NOW[™] RSV utilizes isothermal nucleic acid amplification technology for the qualitative detection of RSV A and RSV B viral nucleic acids. It is comprised of a Sample Receiver, containing elution buffer, a Test Base, comprising two sealed reaction tubes, each containing a lyophilized pellet, a Transfer Cartridge for transfer of the eluted sample to the Test Base, and the ID NOW[™] Instrument.

The reaction tubes in the Test Base contain the reagents required for amplification of RSV A and RSV B, respectively, as well as an internal control. The templates (similar to primers) designed to target RSV A RNA amplify a unique region of the nonstructural gene NS2 while the templates designed to amplify RSV B RNA target the nucleocapsid gene N. Fluorescently-labeled molecular beacons are used to specifically identify each of the amplified RNA targets.

To perform the assay, the Sample Receiver and Test Base are inserted into the ID NOW[™] Instrument. The sample is added to the Sample Receiver and transferred via the Transfer Cartridge to the Test Base, initiating target amplification. Heating, mixing and detection are provided by the instrument, with results automatically reported as RSV positive, negative or invalid.

4. Specimen Collection and Handling

Α.	Specimen:	Use freshly collected specimens for optimal test performance. Inadequate specimen collection or improper sample handling/storage/transport may yield erroneous results.
B.	Specimen Collection	Nasopharyngeal Swab For optimal performance, use the swab provided in the test kit. Alternatively, sterile rayon, foam, or flocked flexible-shaft NP swabs can be used to collect nasopharyngeal samples. Calcium alginate and Puritan Purflock [®] Ultra flocked swabs are not suitable for use in this assay.



B	Specimen Collection	To collect a pasopharypgeal swab sample, carefully insert the swab into the postril
	(continued)	exhibiting the most visible drainage, or the nostril that is most congested if drainage is not visible. Pass the swab directly backwards without tipping the swab head up or down. The nasal passage runs parallel to the floor, not parallel to the bridge of the nose. Using gentle rotation, insert the swab into the anterior nare parallel to the palate advancing the swab into the nasopharynx, leave in place for a few seconds, and then slowly rotate the swab as it is being withdrawn.
		To ensure proper collection, the swab should be passed a distance that is halfway of that from the nose to the tip of the ear. This is about half the length of the swab. DO NOT USE FORCE while inserting the swab. The swab should travel smoothly with minimal resistance; if resistance is encountered, withdraw the swab a little bit without taking it out of the nostril. Then elevate the back of the swab and move it forward into the nasopharynx.
C.	Specimen Transport & Storage	Direct nasopharyngeal swabs should be tested as soon as possible after collection. If immediate testing is not possible, a direct nasopharyngeal swab can be held in its original package at room temperature (15-30°C) for up to two (2) hours prior to testing. If a direct nasopharyngeal swab specimen will be held longer than two (2) hours, it must be refrigerated at 2-8°C and tested within 24 hours from the time of sample collection.
		If the transport of nasopharyngeal swab samples is required, the transport media listed below were tested and are acceptable for use in ID NOW [™] RSV. Elute the swab into 0.5 to 3.0 mL of saline or viral transport media by rotating the swab head in the liquid for 10 - 20 seconds, within 1 hour of sample collection. Remove the swab and discard. If immediate testing is not possible, eluted swab samples can be held at room temperature (15-30°C) for up to eight (8) hours prior to testing. If the eluted swab sample will be held longer than eight (8) hours, it must be refrigerated at 2-8°C and tested within 24 hours from the time of sample collection. If needed, transport the sample at 2-8°C in a leak-proof container.
		Swirl eluted swab samples in transport media gently to mix before testing. If refrigerated, samples must be warmed to room temperature before testing with ID NOW™ RSV.
		Note: Minimal dilution of the sample is recommended as dilution may result in decreased test sensitivity.
		Transport MediaAmie's MediaDulbecco's Modified Eagles Medium (DMEM)M4 MediaM4-RT MediaM5 MediaM6 MediaPhosphate Buffered SalineSalineTryptose Phosphate BrothVeal Infusion BrothUniversal Transport MediaStarplex Multitrans Media
		Vircell Media



5. Reagents And Materials

A. Materials Provided

Component	Content		
Test Bases BASE	Orange plastic components containing two reaction tubes of lyophilized reagents for the targeted amplification of RSV A and RSV B viral RNA.		
Sample Receivers	Blue plastic components containing 2.5 mL of elution buffer.		
Transfer Cartridges CARTRDG	White plastic components used to transfer 2 x 100 μL of sample extract from the Sample Receiver to the Test Base.		
Nasopharyngeal Swabs	Sterile swabs for use with the ID NOW™ RSV Test.		
Positive Control Swab	The positive control swab is coated with inactivated RSV A and B viruses.		
Negative Control Swab	The negative control swab is coated with inactivated Group C Streptococcus.		
Plastic disposable pipettes o VTM sample	capable of delivering 200µl		
Package Insert			
Quick Reference Instruction	s		

B. Materials Required but not Provided

• ID NOW[™] Instrument

6. Storage and Stability

Store kit at 2- 30°C. The ID NOW[™] RSV kit is stable until the expiration date marked on the outer packaging and containers. Ensure all test components are at room temperature before use.

7. Quality Control

ID NOW[™] RSV has built-in procedural controls. The result of the Procedural Control is displayed on the screen and is automatically stored in the instrument with each test result. This can be reviewed later by selecting Review Memory on the instrument.

Procedural Controls:

ID NOW[™] RSV contains an internal control that has been designed to control for functionality of the amplification/detection process and reagents. In positive samples where target amplification is strong, the internal control is ignored and the target amplification serves as the 'control' to confirm that the clinical sample was not inhibitory and that assay reagent performance was robust. At a low frequency, clinical samples can contain inhibitors that may generate invalid results.

Procedural Control Valid displayed on the instrument screen indicates that the assay reagents maintained their functional integrity and the sample did not significantly inhibit assay performance.



External Positive and Negative Controls:

Good laboratory practice suggests the use of positive and negative controls to ensure that test reagents are working and that the test is correctly performed. ID NOW[™] RSV kits contain Positive and Negative Control Swabs. These swabs will monitor the entire assay. Test these swabs once with each new shipment received and once for each untrained operator. Further controls may be tested in order to conform with local, state and/or federal regulations, accrediting groups, or your lab's standard Quality Control procedures.

8. Control Swab Procedure

External Positive and Negative Control swabs are provided and should be tested following the Run QC Test instructions on the ID NOW[™] Instrument. Refer to Quality Control Swab Test Procedure or Instrument User Manual for further details.

Note: The ID NOW[™] Instrument reports QC results as Pass or Fail. RSV Positive QC pass indicates a positive result for both RSV A and RSV B.

If the correct control results are not obtained, do not perform patient tests or report patient results. Contact Technical Support during normal business hours before testing patient specimens.

9. Precautions

- 1. Federal Law restricts this device to sale by or on the order of a licensed practitioner.
- 2. To be used in conjunction with the ID NOW[™] Instrument.
- 3. Performance characteristics of this test have been established with the specimen type listed in the Intended Use Section only. The performance of this assay with other specimen types or samples has not been validated.
- 4. Treat all specimens as potentially infectious. Follow universal precautions when handling samples, this kit and its contents.
- 5. Proper sample collection, storage and transport are essential for correct results.
- Leave test pieces sealed in their foil pouches until just before use. Storage of unpouched test components at temperatures greater than 30°C or at high relative humidity prior to use may result in Invalid or false results.
- 7. Do not tamper with test pieces prior to or after use.
- 8. Do not use kit past its expiration date.
- 9. Do not mix components from different kit lots.
- 10. Solutions used to make the control swabs are inactivated using standard methods. However, patient samples, controls, and test pieces should be handled as though they could transmit disease. Observe established precautions against microbial hazards during use and disposal.
- 11. If any assay components are dropped, cracked, found to be damaged or opened when received, DO NOT USE and discard. Do not use scissors or sharp objects to open foil pouches as damage to test pieces can occur.
- 12. Do not open the Sample Receiver before placing in the instrument. It will prohibit the Elution Buffer from reaching temperature and may impact test performance.
- 13. If the Sample Receiver is spilled while opening, clean the instrument per instructions provided in the instrument User Manual and cancel test. Repeat test with a new Sample Receiver.
- All test pieces must be removed from the instrument according to removal instructions displayed on the instrument, and disposed of according to country and local requirements.
 Pieces must not be separated once they are assembled.
- 15. All test pieces are single use items. Do not use with multiple specimens.
- 16. Once reacted, the Test Base contains large amounts of amplified target (amplicon). **Do not disassemble the Test Base and Transfer Cartridge.** In the case of a positive sample, this could lead to amplicon leakage and potential ID NOW[™] RSV false positive test results.
- 17. Due to the high sensitivity of the assays run on the instrument, contamination of the work area with previous positive samples may cause false positive results. Handle samples according to standard laboratory practices. Clean instruments and surrounding surfaces according to instructions provided in



the cleaning section of the instrument User Manual. Refer to Section 1.6, Maintenance & Cleaning, for further information.

18. Do not touch the heads of the Control Swabs. Cross contamination with the Positive Control Swabs may occur due to the high sensitivity of the assays run on the instrument.

10. Test Procedure

Before testing with ID NOW[™] RSV:

- Allow all samples to reach room temperature.
- Allow all test pieces to reach room temperature.
- Check that a reagent pellet is visible at the bottom of each of the reaction tubes prior to inserting the Test Base in the ID NOW™ Instrument.
- Do not use the Test Base if a pellet is not visible at the bottom of each reaction tube.

To Perform a Test:

Step 1

Turn on the ID NOW^m Instrument – press the power button 0 on the side of the instrument.

Note: If the unit is unattended for one hour, the instrument will go to a black screen power save mode. Touch the screen to return the unit to active display operation.



Press ' \checkmark ' after entry.



Enter User ID or Scan

Q	w	E	R	Т	Y	U		0	Р
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	×		123		_		Ι	~	

🔒 Home	6/Fe	b/2014 12:00pm
Run Test	Run QC Test	Review Memory
Preferences	Setup	Log Out





Base holder

Caution: Do not apply excessive force. Excessive force could damage the instrument.







Confirm that the correct test is displayed on the screen. Touch 'OK' to proceed.

Caution: Once the Test Base has been placed in the holder, the user will have 10 minutes to confirm the test. If the test is not confirmed within 10 minutes, the instrument will time out and the Test Base must be removed and discarded.

If the incorrect Test Base has been inserted, remove and dispose of the incorrect Test Base. Close the lid. The instrument will then run a self-test before proceeding to the Home screen. Press Run Test and restart the test using the correct Test Base.

Step 3

Insert Blue Sample Receiver into the Blue Sample Receiver holder.

Caution: Do not apply excessive force. Excessive force could damage the instrument.



Caution: Confirm that the foil seal on the Sample Receiver indicates that it is for use with ID NOW[™] RSV. If not, then remove the Sample Receiver and replace it with a new Sample Receiver for ID NOW[™] RSV.

Caution: Once the Sample Receiver has been placed in the holder, the user will have 10 minutes to start the test (Steps 3 through 5). If the test is not started within 10 minutes, the instrument will time out and all test pieces (Test Base and Sample Receiver) must be removed and discarded. The instrument will proceed to the Home screen. Press Run Test and restart the test



using a new Test Base and Sample Receiver.

Wait for the Sample Receiver to Warm Up.

Caution: DO NOT REMOVE THE FOIL SEAL UNTIL PROMPTED BY THE INSTRUMENT. DO NOT close the lid or insert the sample until prompted by the instrument.



Step 4

Direct Nasopharyngeal Swab Test Procedure

When prompted, remove the foil seal and place the patient swab to be tested into the Sample Receiver.



Caution: To ensure that the Sample Receiver remains in the instrument while removing the foil seal, place two fingers along the outer edge of the Sample Receiver to hold it in place. If the Sample Receiver spills after warm up, cancel the test by pressing the Home button. Remove and discard the test pieces (Sample Receiver and Test Base) and clean the instrument. Press Run Test to start a new test using a new Test Base and Sample Receiver.

Discard the swab. Skip to Step 5a.





Nasopharyngeal Swab Eluted in Viral Transport Media Test Procedure

When prompted, remove the foil seal and add 0.2ml of sample to the Sample Receiver using the disposable pipettes provided in the kit.



Continue to Step 5a.





Caution: To ensure the Sample Receiver remains in the instrument while removing the foil seal, place two fingers along the outer edge of the Sample Receiver to hold it in place. If the Sample Receiver spills after warm up, cancel the test by pressing the Home button. Remove and discard the test pieces (Sample Receiver and Test Base) and clean the instrument. Press Run Test to start a new test using a new Test Base and Sample Receiver.

Step 5a

Press the White Transfer Cartridge into the Blue Sample Receiver

Listen for a click.



When the Transfer Cartridge is properly attached to the Sample Receiver, the orange indicator on the Transfer Cartridge will rise. If the orange indicator does not rise, continue pushing onto the Sample Receiver until it does.

Caution: The orange indicator should be observed closely. If the orange indicator does not fully rise, the Transfer Cartridge may not collect enough sample.





Step 5b

Lift and then connect the Transfer Cartridge to the Test Base



When the Transfer Cartridge is properly attached to the Test Base, the orange indicator on the Transfer Cartridge will descend. If the orange indicator does not descend, continue pushing onto the Test Base until it does.

Caution: If the orange indicator does not fully descend, not enough sample will be dispensed. This may potentially result in invalid or false negative results.



Step 6





Note: The test will be cancelled if the lid is opened.

Caution: This screen will be displayed for up to 30 seconds once the Transfer Cartridge is detected. If the instrument does not detect that the lid has been closed by then, it will time out and all test pieces (Sample Receiver, Test Base, and Transfer Cartridge) must be removed and discarded. The instrument will proceed to the Home screen. Collect a new sample from the patient. Press Run Test and restart the test using a new Test Base and Sample Receiver.

Caution: DO NOT OPEN THE LID. The test will be cancelled and all test pieces (Sample Receiver, Test Base, and Transfer Cartridge) must be removed and discarded. A test result will not be reported or saved in the instrument memory.



When amplification and detection is complete, the instrument will automatically save the data before advancing to the results screen.

Run Test	
Saving	

Caution: The test is not saved until the completed result is displayed. Do not open the lid until the results are displayed.

The **Test Results** screen displays either a Negative or Positive result for a successfully completed test. If a test error occurs, the display will read 'Invalid'. Refer to the Result Interpretation Section for Interpretation of Results.

Test Results		
14/Nov/2015 Patient ID: 10AX425 User ID: Abbottuser1	11:22am Procedural Control Valid	
RSV: Positive	+	
New Test	f	Print

Press Print to print test results, press New Test to run another test, Press Home to return to the Home screen

After printing, or if New Test or Home are selected, the instrument will prompt to open the lid and discard the used test pieces.



Remove test pieces by lifting the Transfer Cartridge attached to the Test Base, and clicking it into the Sample Receiver, by pressing into the Sample Receiver.

Caution: Do not try to remove the Sample Receiver by any other method as there is a risk of spilling the patient sample.



All test pieces will be connected and can now be removed from the instrument and disposed of according to federal, state and local regulations.



Caution: DO NOT disassemble the Transfer Cartridge and the Test Base before disposal.

Close the lid. The instrument will then run a Self-Test before showing the Home screen or Enter Patient ID screen, depending on the previous selection.



11. Quality Control Swab Test Procedure

For QC testing, select Run QC Test on the Home screen, and follow the displayed instructions. Refer to Running a QC Test in the ID NOW™ Instrument User Manual for further details.

1. Touch 'Run QC Test'



2. Touch 'RSV'



3. Select the QC Test to be Run	Run QC Test
	Positive QC Test
	Negative QC Test
	•
4. Confirm Test	Run QC Test
Confirm the test type to match the QC sample intended for testing by touching 'OK' and following the on screen prompts to complete testing.	Confirm test: RSV Test Positive QC Test
	Cancel 🔒 OK

Note: The QC test is run in the same manner as a Direct Nasopharyngeal Swab. See the **To Perform a Test** section above for step by step instructions for direct nasopharyngeal swab samples.

12. Interpretation of Results

When the test is complete, the results are clearly displayed on the instrument screen.

Instrument Display		Interpretation of Results
Test Results		Positive for RSV viral RNA.
14/Nov/2015 Patient ID: 10AX425 User ID: Abbottuser1	11:22am Procedural Control Valid	
RSV: Positive	+	
New Test 🔒	Print	
Test Results		Negative for RSV viral RNA.
14/Nov/2014 Patient ID: 10AX425 User ID: Abbottuser1	11:22am Procedural Control Valid	
RSV: Negative		
New Test 🏠	Print	



Test Results		Invalid.
14/Nov/2014 11: Patient ID: 10AX425 User ID: Abbottuser1	:22am	Immediately repeat testing of the sample following the instructions below.
RSV: Invalid		
New Test 🔒 Print	t	

If an Invalid result is received, one additional test may be run using the same Sample Receiver. The instructions below should be followed:

- Remove the connected Test Base and Transfer Cartridge from the instrument and connect the Test Base portion to an UNUSED Sample Receiver. The connected Test Base and Transfer Cartridge MUST be attached to a Sample Receiver prior to disposal. The Sample Receiver from a new Transfer Cartridge package may be used for this.
- Remove the blue Sample Receiver separately and carefully from the instrument. The Sample Receiver should be retained and kept upright, to avoid spilling the liquid contents.
- From the Home Screen, start a new test. Follow the screen prompts, however when asked to insert the Sample Receiver, reuse the Sample Receiver and DO NOT re-elute the swab. The test will be repeated using the liquid remaining in the Sample Receiver, it is not necessary to collect a new nasopharyngeal swab sample.

13. Limitations

- The performance of the ID NOW[™] RSV was evaluated using the procedures provided in this package insert only. Modifications to these procedures may alter the performance of the test.
- ID NOW[™] RSV performance depends on viral RNA load and may not correlate with cell culture performed on the same specimen. Viral nucleic acid may persist *in vivo*, independent of virus viability. Detection of analyte target(s) does not imply the corresponding virus(es) are infectious, or are the causative agents for clinical symptoms.
- There is a risk of false negative results due to the presence of sequence variants in the viral targets of the assay. If the virus mutates in the target regions, RSV viruses may not be detected or may be detected less efficiently. Additionally, if the sequence variant occurs in the target sequence recognized by the fluorescently-labeled molecular beacon an invalid assay may result.
- False negative results may occur if a specimen is improperly collected, transported or handled. False negative results may occur if inadequate levels of viruses are present in the specimen.
- Mucin may interfere with RSV detection at levels greater than 0.0625% w/v.
- This test is not intended to differentiate RSV subtypes. If differentiation of specific RSV subtypes is needed, additional testing, in consultation with state or local public health departments, is required.
- Negative results do not preclude infection with RSV and should not be the sole basis of a patient treatment decision.
- This test has not been evaluated for patients without signs and symptoms of respiratory infection.
- Cross-reactivity with respiratory tract organisms other than those tested in the Analytical Specificity Study may lead to erroneous results.
- This assay has not been evaluated for immunocompromised individuals.
- The test is a qualitative test and does not provide the quantitative value of detected organism present.



• Positive and negative predictive values are highly dependent on prevalence. The assay performance was established during the 2015 to 2016 respiratory season. The positive and negative predictive values may vary depending on the prevalence and population tested.

14. Expected Values

The prevalence of RSV varies from year to year; the rate of positivity found in RSV testing is dependent on many factors including the method of specimen collection, the test method used, time of year, age of the patient, and the disease prevalence in specific localities. In the ID NOW[™] RSV multi center prospective clinical study (described in the "Clinical Study" section below), a total of 506 nasopharyngeal swab specimens were determined to be evaluable. The number and percentage of RSV positive cases per specified age group, as determined by the ID NOW[™] RSV assay, are presented below:

Age Group (Years)	Number of Nasopharyngeal Swab Specimens	Number of RSV Positives	RSV Positivity Rate
<1	122	58	48%
1 to 5	243	82	34%
6 to 10	58	0	0%
11 to 18	41	1	2%
≥60	42	5	12%
Total	506	146	29%

15. Performance Characteristics

Clinical Study:

Clinical performance characteristics of ID NOW[™] RSV were evaluated in a multi-site prospective study during the 2015-2016 respiratory season in the U.S. A total of nine investigational sites throughout the U.S. participated in the study.

In this study, two nasopharyngeal swabs were collected from one nostril from each subject using standard collection methods. At all sites, one nasopharyngeal swab was tested directly on ID NOW[™] RSV, according to the test procedure for **Direct Nasopharyngeal Swab**. The other nasopharyngeal swab was eluted in 3 mL of viral transport media (VTM). The samples were processed and tested using the ID NOW[™] RSV assay according to the test procedure for **Nasopharyngeal Swab Eluted in Viral Transport Media**. An FDA-cleared real-time Polymerase Chain Reaction (RT-PCR) test was utilized as the comparator method for this study. All discrepant samples were tested on a different FDA-cleared RT-PCR assay.

External control testing, using ID NOW[™] RSV Positive and Negative Controls, was performed prior to sample testing each day and on each ID NOW[™] Instrument the testing was performed, at all study sites.

A total of 530 nasopharyngeal swab specimens were enrolled in this study. Of those, 24 specimens did not meet eligibility criteria.

A total of 506 nasopharyngeal swab specimens were considered evaluable. Patient age and gender distribution for the evaluable specimens is presented in the table below.



Age and Gender Distribution

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Age Group (Years)	Female	Male
<1	56	66
1 to 5	114	129
6 to 10	27	31
11 to 18	19	22
≥60	20	22
Total	236	270

Compared to the RT-PCR comparator method, the performance of ID NOW[™] RSV is presented in the tables below.

Direct Nasopharyngeal Swab -ID NOW™ RSV against the Comparator Method

ID NOW™	Comparator Method			
RSV	Positive	Negative	Total	
Positive	137	7 ^a	144	
Negative	2 351 353		353	
Total	139 358 497		497	
Sensitivity: 137/139 98.6% (95%CI: 94.9%-99.6%)				
Specificity: 351/358 98.0	98.0% (95%Cl: 96.0%-99.1%)			

^a RSV nucleic acid was detected in 6/7 False Positive specimens using an FDA-cleared molecular test

Nasopharyngeal Swab Eluted in Viral Transport Media -ID NOW™ RSV against the Comparator Method

ID NOW™	Comparator Method		
RSV	Positive	Negative	Total
Positive	138	8ª	146
Negative	2	353	355
Total	140	361	501
Sensitivity: 138/140 98.6	6% (95%CI: 94.9%-99.6%	(b)	
Specificity: 353/361 97.8	3% (95%CI: 95.7%-98.9%	%)	

^a RSV nucleic acid was detected in 6/8 False Positive specimens using an FDA-cleared molecular test

During the prospective clinical study, the initial invalid rate for direct nasopharyngeal swab samples (before repeat testing per the product instructions) was 4.1% (21/506) (95% CI: 2.7% to 6.3%). After repeat testing per the product instructions, the invalid rate was 0.8% (4/506) (95% CI: 0.3% to 2.0%).

The initial invalid rate for nasopharyngeal swabs eluted in viral transport media was 2.2% (11/506) (95% CI: 1.2% to 3.9%). After repeat testing per the product instructions, the invalid rate was 0% (0/506) (95% CI: 0.0% to 0.8%).



Analytical Studies: Reproducibility

A reproducibility study of ID NOW[™] RSV was conducted by operators from three sites using panels of blind coded specimens containing negative, low positive (at the limit of detection), and moderate positive (above the limit of detection) RSV A and B samples.

Participants tested multiple samples of each panel member on five different days. The percent agreement with expected results for the RSV A moderate positive and low positive samples were 100% (89/89) and 98.9% (89/90), respectfully. The percent agreement with expected result for the RSV B moderate positive and low positive samples were 98.9% (89/90) and 100% (90/90), respectfully. All of the true negative samples (90) generated negative test results. There were no significant differences observed within run (replicates tested by one operator), between run (five different days), between sites (three sites), or between operators (nine operators).

The Reproducibility Study site-to-site qualitative results (agreements with expected results) are presented in the table below:

Sample Category		SITE		Overall Percent		
		Site 1	Site 2	Site 3	Agreement	and 95% Cl
LP ¹ RSV A	Percent Agreement	96.7%	100%	100%	98.9%	(94.0%,
	Count	29/30	30/30	30/30	(89/90)	99.0%)
MP ¹ RSV A	Percent Agreement	100%	100%	100%	100%	(95.9%,
	Count	29/29	30/30	30/30	(09/09)	100%)
LP ¹ RSV B	Percent Agreement	100%	100%	100%	100%	(95.9%,
	Count	30/30	30/30	30/30	(90/90)	100%)
MP ¹ RSV B	Percent Agreement	100%	96.7%	100%	98.9%	(94.0%,
	Count	30/30	29/30	30/30	(09/90)	99.0%)
TN ^{1,2}	Percent Agreement	100%	100%	100%	100%	(95.9%,
	Count	30/30	30/30	30/30	(90/90)	100%)

Reproducibility Study Site-To-Site Qualitative Results

¹ Low Positive (LP), Moderate Positive (MP), True Negative (TN)

² Percent Agreement correlates to the percent of negative results.



Analytical Sensitivity (Limit of Detection)

The limit of detection (LOD) of the ID NOW[™] RSV assay was determined using one characterized strain of RSV A and RSV B.

Presumed negative swab specimens were eluted in UTM. Swab elutes were combined and mixed thoroughly to create a clinical matrix pool to be used as the diluent. Each RSV strain was diluted in this natural nasal swab matrix pool to generate virus dilutions for testing. The vendor provided virus strains were re-titered and the concentrations (in $TCID_{50}/mL$) were determined by standard virologic method. The concentration for each dilution (in genome equivalents/mL) was also assessed using laboratory developed and validated RSV quantitative real-time PCR assays.

Contrived swab samples were prepared by coating 10 microliters of each virus dilution onto the swab. The contrived swab samples were tested without further elution in viral transport media according to the test procedure for Direct Nasopharyngeal Swab.

Contrived swab samples eluted into VTM were also tested according to the test procedure for Nasopharyngeal Swab Eluted in Viral Transport Media.

The LOD for each RSV strain tested was determined as the lowest virus concentration that was detected \ge 95% of the time (i.e., concentration at which at least 19 out of 20 replicates tested positive).

The confirmed LODs in natural nasal swab matrix for both direct swab and swab eluted in VTM for each RSV strain tested are presented in the tables below:

Limit of Detection (LoD) Study Results – Direct Swab Testing

RSV Strain	LoD (TCID₅₀/mL)	LoD (Genome Equivalents/mL)
RSV A/2	5.82 x 10 ²	7.80 x 10 ⁴
RSV B/9320	6.0 x 10 ¹	5.43 x 10 ³

Limit of Detection (LoD) Study Results – Swab Eluted in VTM Testing

RSV Strain	LoD (TCID₅₀/mL)	LoD (Genome Equivalents/mL)
RSV A/2	9.15 x 10 ³	1.06 x 10 ⁶
RSV B/9320	9.64 x 10 ²	1.48 x 10 ⁵

Analytical Reactivity (Inclusivity)

The reactivity of the ID NOW[™] RSV assay was evaluated with a panel of three (3) RSV strains.

The ID NOW™ RSV assay detected all strains tested at the concentrations indicated in the table below:



Analytical Reactivity Study Results

Strain	Subtype	Test Concentr Genome	ID NOW™ RSV	
Strain	Subtype	PFU/mL	Genome Equivalents/mL	Result (n=3)
A Long	А	9.38 x 10 ⁻²	1.75 x 10 ³	Positive
B1	В	1:20,000	2.37 x 10 ³	Positive
18537	В	1.00 x 10 ⁻¹	1.37 x 10 ³	Positive

Analytical Specificity (Cross Reactivity)

To determine the analytical specificity of ID NOWTM RSV, 40 commensal and pathogenic microorganisms (21 bacteria, 18 viruses and 1 yeast) that may be present in the nasal cavity or nasopharynx were tested. All of the following microorganisms were negative when tested at concentrations ranging from 10³ to 10¹⁰ cells/mL or CFU/mL (bacteria), 10⁴ to 10⁸ TCID₅₀/mL (viruses), and 10⁸ cells/mL (yeast).

Bacteria

Bordetella pertussis	Neisseria meningitidis
Corynebacterium diphtheriae	Neisseria sicca
Escherichia coli*	Neisseria subflava
Haemophilus influenza	Proteus vulgaris*
Klebsiella pneumoniae	Pseudomonas aeruginos
Lactobacillus plantarum	Staphylococcus aureus
Legionella pneumophila	Staphylococcus epidermidis
Moraxella/Branhamella	Streptococcus, Group A
catarrhalis*	
Mycobacterium tuberculosis	Streptococcus pneumonia
Mycoplasma pneumonia	Streptococcus salivarius
Neisseria gonorrhoeae	

Viruses

Adenovirus Type 1
Adenovirus Type 7
Enterovirus/Coxsackievirus B4
Enterovirus Type 70
Epstein Barr Virus
Human Coronavirus 229E
Human Coronavirus OC43
Human Cytomegalovirus
(CMV) (Herpes V)
Human Echovirus 7 (Wallace)

Human Metapneumovirus Influenza A Influenza B Measles (Edmonston) Mumps (Enders) Parainfluenza 1 Parainfluenza 2 Parainfluenza 3

Rhinovirus type 1A



Yeast

Candida albicans

* Some cross-reactivity was observed for *E. coli* at concentrations greater than 2.75 x10⁹, *Moraxella catarrhalis* at concentrations greater than 1.50 x 10⁹, and *Proteus vulgaris* at concentrations greater than 4.69 x 10⁸.

In addition, *in silico* analysis was performed to determine whether there is any significant overlap between ID NOW[™] RSV target nucleic acid sequence and the genomes of the following upper respiratory tract microorganism. None of the organisms maintained genomic sequence that was significantly similar to the ID NOW[™] RSV target sequences.

Bacteria	
Bordetella bronchiseptica	Neisseria mucosa
Chlamydia pneumonia	Proteus mirabilis
Chlamydia trachomatis	

Viruses

Coronavirus NL63
Coxsackievirus B ₃₅
Echovirus 6
Echovirus 9
Echovirus 11
Enterovirus 71

Interfering Substances

The following substances, naturally present in respiratory specimens or that may be artificially introduced into the nasal cavity or nasopharynx, were evaluated with ID NOW™ RSV at the concentrations listed below and were found not to affect test performance.

Substance	Concentration
Mucin	0.0625%
Whole Blood	1%
NeoSynephrine Cold and Sinus Extra	20%
Strength Spray	
Afrin PumpMist Original	20%
Ocean Saline	20%
Chloroseptic Max	20%
Zicam Allergy Relief	20%
Beclomethasone	0.068 mg/mL
Budesonide	0.051 mg/mL
Dexamethasone	0.48 mg/mL
Flunisolide	0.04 mg/mL



Fluticasone propionate	0.04 mg/mL
Mometasone furoate	0.04 mg/mL
Mupirocin	4.3 mg/mL
Tobryamycin	1.44 mg/mL
Triamcinolone	0.04 mg/mL
Zanamivir (Relenza)	0.284 mg/mL

Inhibition by other Microorganisms

ID NOW[™] RSV test performance in the presence of non-RSV respiratory pathogens was evaluated. Vendor provided stocks of RSV A and B strains were diluted in UTM to approximately 3 times the limit of detection. Contrived RSV A and B positive swab specimens were prepared by coating 10 microliters of virus dilution onto each swab. The following panel of non-RSV viruses was tested at the concentration provided in the table below and was found not to affect test performance.

Virus Panel	Concentration (TCID ₅₀ /ml)
Adenovirus Type 1	1.58 x 10 ⁷
Rhinovirus Type 1A	1.58 x 10 ⁷
Influenza A	5.00 x 10 ⁶
Influenza B	1.00 x 10 ⁸

Carry-Over Contamination

An analytical carry-over study was performed to demonstrate that when recommended laboratory practices are followed, there is little risk of false positive results caused by carryover or cross-contamination in the ID NOW™ RSV test. Vendor provided stocks of RSV A and B strains were diluted in UTM to approximately 30 times the limit of detection. Contrived RSV A and B positive swab specimens were prepared by coating 10 microliters of virus dilution onto each swab. Testing of the contrived positive swabs was alternated with testing of a negative swab sample for a total of 15 rounds. In addition, testing of contrived positive VTM samples was alternated with negative VTM samples following the test procedure for Nasopharyngeal Swab Eluted in Viral Transport Media for a total of 15 rounds. No false positive results were observed in this study.

CLIA Waiver Studies

As part of the prospective study (as described in the Performance Characteristics section above), the accuracy of ID NOW[™] RSV was evaluated when used by operators who had no laboratory experience and who were representative of CLIA waived testing sites (intended users). The study was conducted at nine (9) CLIA waived sites with 28 intended users participating. No training on the use of the test was provided to the operators.

Performance of the ID NOW[™] RSV test when used by intended users at a CLIA waived testing site, is described above in the section titled "Clinical Study".

A study was conducted to evaluate the performance of ID NOW[™] RSV with weakly reactive samples when used by untrained users. Randomized blind-coded panels, containing negative and low positive (close to the limit of detection {LOD} or assay cutoff) RSV A and B specimens, were tested with ID NOW[™] RSV at 3 CLIA waived sites (63 tests in total). Nine untrained users at the CLIA waived sites participated in the study. The panel testing was conducted over a minimum of 6 days at each site, and the testing was integrated into the users' daily work flow. The performance of ID NOW[™] RSV with samples near the assay cutoff was acceptable when used by untrained users, as shown in the table below.



Brieff Ref resting of Samples field the Assay Suton (201							
Untrained Users							
Sample Type % Detection 95% Cl							
RSV A Low Positive	100% (63/63)	94.3%, 100%					
RSV B Low Positive	100% (63/63)	94.3%, 100%					
True Negative	0% (0/63)	0%, 5.7%					

ID NOW[™] RSV Testing of Samples near the Assay Cutoff (LOD)

Using risk analysis as a guide, analytical flex studies were conducted on ID NOW[™] RSV. The studies demonstrated that the test is insensitive to stresses of environmental conditions and potential user errors.

16. References

- World Health Organization (WHO) Acute Respiratory Infections (Update September 2009). [Online] Available from: http://apps.who.int/vaccine_research/diseases/ari/en/index2.html Accessed: 20 Nov 2015
- 2. Williams, KM, Jackson MA, Hamilton M. Rapid Diagnostic Testing for URIs in Children: Impact on Physician Decision Making and Cost. Infect. Med. 19(3): 109-111, 2002.



ORDERING AND CONTACT INFORMATION

Reorder numbers:

435-000: ID NOW[™] RSV 24 Test Kit **435-080:** ID NOW[™] RSV Control Swab Kit

US +1 877 441 7440 **OUS** +1 321 441 7200

Technical Support Advice Line

Further information can be obtained from your distributor, or by contacting Technical Support on:

US+1 855 731 2288 ts.scr@alere.com

Africa, Russia, CIS +972 8 9429 683 ARCISproductsupport@alere.com

Asia Pacific +61 7 3363 7711 <u>APproductsupport@alere.com</u>

Canada +1 800 818 8335 CANproductsupport@alere.com

Europe & Middle East +44 161 483 9032 EMEproductsupport@alere.com

Latin America+57 2 6618797 LAproductsupport@alere.com

SYMBOLS

Ţ	BASE				
Fragile, handle with care	Test Base				
CARTRDG	RCVR				
Transfer Cartridge	Sample Receiver				
R_{c} Only					
Prescription Only (Applies to US only)					

IN435000 Rev.3 2018/08



Test Procedure Approval and Review Sheet

Prepared By:	
Date:	
Supervisor Review:	
Date:	
Laboratory Director or Designee Approval:	
Implementation Date:	
Supersedes Procedure Dated:	
Date Procedure Retired:	

Laboratory Director or Designee	Date Reviewed	Laboratory Director or Designee	Date Reviewed



ID NOW[™] RSV Verification Form

Account Name:	
Address:	
Telephone:	
ID NOW™ RSV Lot #/Exp:	
Date:	

Supervisor Signature:

Record the results from reference samples below.

Record the Sample #, the ID NOW[™] RSV results, Tester's Initials, and any comments. After the ID NOW[™] RSV results have been recorded (positive or negative) then record the Expected Results (positive or negative).

Sample #	Expected Results	ID NOW™ RSV Result	Tester's Initials	Comments



ID NOW[™] RSV Verification Form (page 2 of 2)

Sample #	Expected Results	ID NOW™ RSV Result	Tester's Initials	Comments			
Review:		Date: _					
Laboratory Direc	Laboratory Director Review and Approval for Clinical Use:						

Date: _____



ID NOW[™] External Quality Control

External QC testing is recommended:

- When a new shipment of kits is received
- When a new untrained operator performs testing
- The first time an assay is run on an instrument
- When required by local, state, and/or federal regulations, accrediting groups, or your lab's Quality Control procedures

Date	Assay (circle type)	Instrument SN	ID NOW™ Kit Lot/Exp	Positive Control Lot/Exp	Negative Control Lot/Exp	Positive Control Result	Negative Control Result	Tester's Initials	Comments
	Flu Strep A RSV								
	Flu Strep A RSV								
	Flu Strep A RSV								
	Flu Strep A RSV								
	Flu Strep A RSV								
	Flu Strep A RSV								

Reviewed by: _____

Date:_____

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120004457 Rev.1 09/18



ID NOW™ RSV Procedural Control Results and Patient Record

Lot Number	Exp. Date
ID NOW [™] Instrument Serial #	

Abbott recommends that external positive and negative controls be run for once with each new shipment received and once for each untrained operator.

Procedural Control Valid displayed on the instrument screen indicates that the assay reagents maintained their functional integrity and the sample did not significantly inhibit assay performance. Record the Date, Patient's Name, Patient's ID Number, Patient's Test Result, Procedure Control Results and the Tester's initials.

Date Patient		Patient ID Patient RSV Test	Are the Procedural Control Results Invalid or Valid?		Comments	Tester's	
Duto	Name	Number	Results	Invalid	Valid	Comments	Initials

Reviewed by: _____Date: _____

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120004464 Rev.02 10/18



ID NOW™ Cleaning Log

The ID NOW™ is maintenance-free and has no serviceable parts. In the case of instrument failure or damage, contact Alere Technical Support at 855-731-2288 or ts.scr@alere.com

The ID NOW[™] can be cleaned using 70% ethanol or 10% bleach solution, on a damp, lint free cloth. 70 % Ethanol wipes are acceptable for use on the ID NOW[™]. Do not spray or pour solution directly onto instrument when cleaning. Ensure no excess liquid is used when cleaning as it may damage the instrument.

Abbott recommends that the exterior instrument surfaces and the surfaces visible under the open lid be cleaned daily. Clean the surrounding bench area. Clean instrument and surrounding areas immediately after possible patient sample contamination.

- Do not disassemble the instrument for cleaning •
- Do not immerse in water or cleaning solutions
- Do not clean with soap or other solutions Month Year

Serial Number_____ Monthly Review Date _____Initials_____

Day	Performed by: (Initials)	Comments/Corrective Action	Day	Performed by: (Initials)	Comments/Corrective Action
1			17		
2			18		
3			19		
4			20		
5			21		
6			22		
7			23		
8			24		
9			25		
10			26		
11			27		
12			28		
13			29		
14			30		
15			31		
16					

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Quality Assessment Review Form and Checklist

These forms are used for periodical review of the patient testing process. These should be filed with the quality assessment records.

Quality Assessment Activity	Comments	Date	Initials
Patient Test Management: Evaluate criteria for specimen submission, handling, and rejection; test results requisitions and reporting, accuracy and reliability of reports.			
Quality Control: Assess control data, errors in reporting results, and corrective actions taken with appropriate documentation records.			
Proficiency Testing: Review the effectiveness of corrective actions taken for unsatisfactory performance or failures.			
Comparison of Test Results: Review at least semi-annually comparative results for multiple methods, instruments, or site correlations when more than one procedure exists.			
Relationship of Patient Test Information to Test Results: Evaluate patient test reports for accuracy of patient information, test results, and normal ranges. Identify and evaluate results inconsistent with Patient's age, sex, diagnosis, and other test parameters.			
Personnel: Evaluate the effectiveness of policies and procedures for assuring employees' competence of testing and reporting test results.			
Communications: Evaluate documented problems and corrective actions that occur between the laboratory and the authorized individual who orders or receives the test result.			
Complaint Investigation: Evaluate documented complaints and corrective actions.			
Quality Assessment Reviews with Staff: Document discussion with Staff regarding identified problems and corrective actions during the QA review.			



Corrective Action Form

Problem/Error	Corrective Action
Technologist:	Date:
Supervisor:	Date:
Laboratory Director:	Date:



Temperature Log

Equipment: _____

Name of Facility: _____

To be recorded at the beginning of each workday. Temperature Range: _____

Date	°C	Initials	Adjustments	Date	°C	Initials	Adjustments



ID NOW™ Proficiency Testing Summary

College of American Pathologists (CAP):

- 1.800.323.4040
- www.cap.org

FLU and RSV:

ID2 – (Nucleic acid Amplification, Respiratory) - There are 2 shipments per year Shipment A has Influenza A challenge and Coronavirus, and Shipment B has an Influenza B challenge and rhinovirus

ID3 – (Influenza A, Influenza B and RSV by NAA) - 3 shipments per year designed for molecular multiplex users

IDR – (Influenza A, Influenza B and RSV by NAA) - 3 shipments per year designed for molecular multiplex users

STREP A:

D1 – Throat culture - Presence or absence of Group A *Streptococcus* Throat swabs are compatible with culture or molecular methods – 3 shipments per year

D4 – Limited Bacteriology (contains 2 throat culture specimens, plus other sample challenges) – Throat swabs are compatible with culture or molecular methods - 3 shipments per year

American Proficiency Institute (API):

- 1.800.333.0958
- www.api-pt.com

FLU and RSV:

322 – Virology package (includes Liquid samples for Influenza A or B, RSV, and Adenovirus antigen detection kits and Molecular techniques) – 3 shipments per year

933 – Virology package – waived (includes Liquid samples for Influenza A or B, RSV, and Adenovirus antigen detection kits and Molecular techniques) – 2 samples, 2 shipments per year

STREP A:

364 -- Strep Pharyngeal (molecular) - 3 shipments per year



Wisconsin State Lab of Hygiene (WSLHPT):

- 1.800.462.5261
- <u>www.wslhpt.com</u>

FLU and RSV:

PT06150 – Viral antigens- Limited VA (includes liquid samples for rapid antigen test kits or molecular methods) - 5 samples, 3 shipments per year

PT06170 – Viral antigens- Waived methods VCW (includes liquid samples for waived rapid antigen test kits or molecular methods) - 5 samples, 3 shipments per year

STREP A:

PT05170 – Group A Strep Culture ST (includes samples for culture of Group A Streptococci, compatible with culture and molecular methods – 5 samples, 3 shipments per year

Notice: These proficiency options are available, but it is the testing facilities responsibility to select the survey that meets their needs. Requirements may vary by state and accreditation agency.

If you have any questions or require further assistance, please contact CAP, API, or WSLHPT at the numbers listed above or Abbott Technical Support at: 855.731.2288 | <u>ts.scr.@alere.com</u>

120004462 Rev.2 10/18



Tips for Successful PT Performance

- Strictly follow the PT provider's storage or handling requirement *before testing PT specimens*.
- Analyze PT specimens within the time frame provided by the PT provider.
- Contact the PT provider *promptly* when specimens are received damaged. You may be able to receive a replacement immediately.
- Avoid clerical error when filling out PT answer sheets. Be sure to *enter the correct result next to the correct analyte* on the answer form.
- Remember to identify the instrument or method you are using to perform your PT so you are *graded among your peer group*.
- Make copies of all answer forms *before submitting them* to your PT provider.
- Please contact Technical Support at 855-731-2288 or <u>ts.scr@alere.com</u> for further information on proficiency providers.



ID NOW™ AND ASSAY TIPS TOP 10 TIPS

6

9

- Place the ID NOW[™] Instrument on a flat, level, 1 stable surface away from direct sunlight. Allow enough room for air flow behind the instrument.
- External Quality Control: Test QC swabs with each 2 new shipment, each new untrained operator, and with software updates. QC swabs must be performed as a neg/pos pair. Additional controls may be tested in order to conform to local, state and/or federal regulations, accrediting groups, or your lab's standard Quality Control procedures.
- Do not remove the blue Sample Receiver from the instrument once warm-up has started. Do not remove the foil seal from the blue Sample Receiver until prompted to do so. Place two fingers along the outer edge of the blue Sample Receiver when removing the foil seal to keep the blue Sample Receiver in place.
- The orange indicator should rise to the top of the Δ white Transfer Cartridge when pressed into the blue Sample Receiver. The orange indicator should descend back down when the white Transfer Cartridge is pressed into the orange Test Base. Always visually check this when running the procedure, do not rely on listening for clicks.
- Test components are designed as single use only. 5 Components should be clicked together and must be removed from the instrument according to removal instructions displayed on the screen. Components must not be separated once they are clicked together after test completion.

- Daily cleaning of the ID NOW[™] Instrument is recommended. Clean exterior surfaces and surfaces visible under the open lid, as well as the surrounding bench area, using a lint free cloth dampened with 70% Ethanol or 10% Bleach. 70 % Ethanol wipes are acceptable for the ID NOW[™].
- Due to the high sensitivity of the assays run on the instrument, contamination of the work area with previous positive samples may cause false positive results. Handle samples according to standard laboratory practices.
- For disposal of all used test components, follow the 8 laboratory's safety protocol that documents the safe handling, storage, and disposal of all hazardous waste. Include information on appropriate hazardous spill clean-up procedures.
 - If any test component is dropped, cracked, found to be damaged, or open when received, it should not be used and should be discarded.
- Refer to package insert for appropriate kit 1() component storage. Leave test components in sealed pouches until just prior to use. Ensure all test components are at room temperature before using. Do not use sharp objects or scissors to open foil pouches.

Product support: Call 1.855.731.2288 ts.scr@alere.com 120004463 Rev.2 02/19



ID NOW[™] Training Checklist

Facility/Laboratory:_____

User Name: _____ User ID: _____

ITEM DETAILS		
ID NOW™- Instrument Overview	User's Initials	Date
The user acknowledges being shown and understands the purpose of the following components:		
Operator's manual and Quick Start guide		
Analyzer on/off power button, temperature indicator, touch screen		
Power cord and power port		
USB connectors and purpose		
• Printer (if applicable) with power cords, connectors and paper		
Barcode Reader if applicable		
 Touch screen (Run Test, QC, Review Memory, Logout, Preferences, Setup) 		
• Serial number location and Technical Support contact #		
Proper cleaning and maintenance		
ID NOW™- Reagent Overview	User's Initials	Date
 The user acknowledges being shown <u>reagent package insert(s)</u>, and understands storage conditions, kit components, warm up times, lot #, expiry dates, and early detection for the reagent test kits (as applicable below): Collection Swabs 		
Orange Test Base – Package #1		
• Blue Sample Receiver and White Transfer Cartridge - Package #2		
Quality control swab set (Positive & Negative)		
Plastic transfer pipette (Flu & RSV kits only)		
• The user has reviewed the "Precautions" listed in the package insert		
e.g. Handling of used test cartridges and prevention of amplicon		
FLU A/B 2 427-000 Strep A 2 734-000 RSV 435-000		



	ID NOW [™] - Sample Requirements	User's initials	Date
•	User has been provided appropriate sample collection support documents and training resources.		
•	User has reviewed package insert(s) for ACCEPTABLE swabs/ transport media types, and sample storage conditions.		
	FLU A/B 2 427-000 Strep A 2 734-000 RSV 435-000		
	(Check all that apply)		
	ID NOW [™] - QC and Patient Testing	User's initials	Date
1.	For Quality Control / Patient Test The user follows universal precautions (uses gloves) to handle reagents, QC, Patient swabs/VTM.		
2.	Demonstrates how to successfully log in to the ID NOW™.		
3.	The user demonstrates understanding of the "self- test".		
4.	The user demonstrates how to initiate Quality control or Patient test from the main menu.		
5.	The user selects the correct reagent set (package #1 and package #2) for the assay to be performed.		
6.	The user correctly opens each packet, handles and places reagent components as directed per the user interface displayed on the touchscreen.		
7.	The user utilizes the quality control swab for the corresponding assay and QC level. OR for patient testing, utilizes correct patient sample type and correctly enters sample identification into the analyzer.		
8.	The user follows correct timing for the introduction of the sample and 10 second swab rotation in Sample receiver or for VTM, addition of 200 μl.		
9.	The user demonstrates the initiation of the test by pressing the "OK" key prior to sample transfer.		
10	. The user OBSERVES the proper positioning of the Transfer Cartridge plunger during the sample transfer.		



11.	The user completes the Quality control /Patient test process from start to result.		
12.	User demonstrates understanding of result and procedural control.		
13.	User demonstrates connecting all reagent pieces for safe and proper disposal.		
	ID NOW [™] - Test Result interpretation and Invalid results	User's Initials	Date
•	User has been provided support document(s) for handling an invalid test result.		
•	User demonstrates how to find and interpret QC/PATIENT results on the screen or printout.		
•	The user has been instructed what to do if the QC, patient or procedural control are displayed as invalid or have failed.		
•	The user acknowledges instruction on the main causes of an invalid result and how to repeat an invalid test.		
User signat	ure Date		

Trainer signature_____ Date _____

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ID NOW™						
	ID NOW™ Flu 2	ID NOW™ Strep A 2	ID NOW™ RSV			
Product PN	427-000	734-000	435-000			
Control Kit PN	425-080	734-080	435-080			
CPT code	87502 - QW	87651 - QW	87634 - QW			
Testing time	Results in13 minutes or lessTesting timeEarly positive detection in as little as 5 minutes		Less than 15 minutes			
Sample Types	Nasal/Nasopharyngeal (NP) swab or NP swab in Viral Transport Media (VTM)	Throat swab with or without Transport Media (TM)	NP swab with or without VTM			
Direct Sample Storage	Direct Nasal swab/NP swab: Room Temp: 2 hrs. 2-8 °C: up to 24 hrs.	Direct Throat swab: Room Temp or 2-8° C: up to 72 hrs.	Direct NP swab: Room Temp: 2 hrs. 2- 8 °C: up to 24 hrs.			
Transport Media Sample Storage	NP swab in VTM: Room Temp: 8 hrs. 2-8° C: up to 72 hrs.*	Throat swab in BBL™ CultureSwab™ Liquid Amies transport media system (This media system preserves the sample on the swab tip via contact with a media-moistened sponge.) Room Temp or 2-8° C: up to 6 hrs.*	NP swab in VTM: Room Temp: 8 hrs. 2-8° C: up to 24 hrs.*			
Box configuration	24 tests/box 1 (+) and 1 (-) control/box test swabs disposable pipettes for VTM	24 tests/box 1 (+) and 1 (-) control/box test swabs	24 tests/box 1 (+) and 1 (-) control/box test swabs disposable pipettes for VTM			
Patient Results Memory Capacity	999 tests	999 tests	999 tests			

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ID NOW™ Training Certificate FLU A/B 2 Strep A 2 RSV (Check all that apply) User manual System Overview Serial number location □ Package Insert (PI) □ Instrument cleaning/maintenance Set-up and Configuration Environmental conditions Menu settings Date & time requirements Self-Test Review functions of test Frequency of test **Quality Control** □ Storage & handling of control material □ Frequency of QC testing Logging results □ Storage & handling of test material **Test Sample Procedure** □ Sample requirements & storage Sample collection Running a test Troubleshooting User manual Review contamination prevention memo □ Alere product support: 1-855-731-2288 Print name of trainer Signature of trainer Date Print name of trainee Signature of trainee Date

Name of Institution/Facility

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Certification of Training

This is to verify that personnel responsible for running the ID NOW[™] RSV at ______ have been thoroughly in-serviced on the test and the test procedure. This has included:

- Review of the package insert
- Demonstration of the product assay
- Successful performance of the ID NOW™ RSV and interpretation of results

Names of the personnel who have been trained with the ID NOW™ RSV and are responsible for reporting patient results:

PRINT NAME	SIGNATURE	DATE
<u> </u>		

Signature of Laboratory Director(s) responsible for personnel and testing:

Signature

Signature

Date

Date

Trainer

Date



Testing Personnel Training Assessment

Test Method: ID NOW™ RSV

Procedure	Satisfactory	Unsatisfactory	Not Applicable	Comments/Corrective Actions
Observation of Test P	erformance:			
Patient Sample Preparation (if applicable)				
Specimen Handling/Processing				
Testing				
Recording/Reporting Results				
Assessment of Test Performance Using Known Samples				
Review of Records:				
Patient/Quality Control Log Sheet Records				
Proficiency Testing Records				
Assessment of Problem Solving Skills				

(Attach all supporting documents)

Evaluator:

Date:

Employee:_____



ID NOW™ Quiz

Nam	FLU A/B 2 Strep A 2 RSV (Check all that apply) Name:			
Date	: Score:			
Circl	e T (True) or F (False) for each Question:			
1.	Flu A/B 2, Strep A 2 and RSV can be stored at 2-30°C, but ensure all test components are at room temperature before use.	Т	F	
2.	To transfer the sample, you should press the white Transfer Cartridge into the blue Sample Receiver until a click is heard. The orange indicator needs to rise to the top of the Transfer Cartridge.	Т	F	
3.	The white Transfer Cartridge is firmly attached to the orange Test Base by pressing down until the orange indicator descends back down to its starting position.	Т	F	
4.	Test components can be separated once they are assembled.	Т	F	
5.	It is acceptable to mix components from different kit lot numbers.	Т	F	
6.	If the instrument was transported or moved, a performance check using ID NOW™ positive and negative controls is recommended to ensure proper functionality.	т	F	
7.	If any assay components are dropped cracked, found to be damaged, or opened when received, they should not be used and should be discarded.	Т	F	
8.	After a test is completed, discard the components by removing the connected orange Test Base and white Transfer Cartridge and connecting them to the blue Sample Receiver in the ID NOW [™] Instrument. Discard the three (3) connected components according to federal, state, and local regulations.	т	F	
9.	External positive and negative controls, which are included in the kit, should be tested when an assay is run on the instrument for the first time, once with each new shipment and once for each untrained operator, following a software upgrade, or in order to conform to local, state and/or federal regulations, accrediting groups, or your lab's standard Quality Control procedures.	т	F	
10.	Clean the ID NOW™ Instrument daily by spraying with 70% ethanol or 10% bleach.	Т	F	
	ID NOW™ Influenza A&B 2 Quiz			
1.	Swab specimens should be tested as soon as possible after collection. If immediate testing is not possible, the nasal swab can be held in its original package at room temperature for up to two (2) hours prior to testing.	Т	F	
2.	If the swab will be held longer than two (2) hours, it must be refrigerated at 2- 8°C and tested within 24 hours from the time of sample collection.	т	F	



3.	Both nasopharyngeal and nasal swab specimens are approved for use with the ID NOW™ Influenza A & B 2 Test, but only nasal swabs tested directly are CLIA waived.	Т	F
4.	I can use any swab with the ID NOW™ Influenza A & B 2 Test.	Т	F
5.	Control swabs are supplied with the kit.	Т	F
6.	Patient collection swabs are supplied with the kit.	т	F

ID NOW™ RSV Quiz

1.	Nasopharyngeal swabs may be eluted in saline or approved viral transport media for testing with the ID NOW™ RSV assay.	Т	F
2.	Nasopharyngeal swab specimens can be stored at room temperature up to 2 hours prior to testing, or refrigerated at 2-8°C up to 24 hours from time of collection.	Т	F
3.	Nasopharyngeal swabs eluted in viral transport media can be stored at room temperature up to 8 hours prior to testing, or refrigerated at 2-8°C up to 24 hours from time of collection.	Т	F
4.	Only the nasopharyngeal swabs provided in the kit can be used to collect specimens.	Т	F

ID NOW[™] Strep A 2 Quiz

1.	The throat swabs that are included in the kit are the only swabs that may be used.	т	F
2.	Swab specimens can be stored at room temperature up to 24 hours prior to testing, or refrigerated at 2-8°C up to 5 days from time of collection.	т	F
3.	The following transport media are acceptable for use: ESwab™ Collection Kit, Liquid Amies, BBL™ CultureSwab™ Liquid Amies, and BBL™ CultureSwab™ Liquid Stuart.	т	F
4.	Swab specimens may be taken from the throat, tonsils, tongue, cheek or teeth.	т	F

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ID NOW[™] Quiz Answer Key

	Answer Key	Explanation
1.	Т	Flu A/B 2, Strep A 2, and RSV can be stored at 2-30°C, but ensure all test components are at room temperature before use.
2.	Т	The orange indicator should be observed closely. If the orange indicator does not fully rise, the Transfer Cartridge may not collect enough sample.
3.	т	Visually check the indicator to see that it has descended. If the orange indicator does not fully descend, not enough sample will be dispensed. This may potentially result in invalid or false negative results.
4.	F	Test components must not be separated once they are locked together. To do so may risk amplicon leakage.
5.	F	Do not mix components from different kit lots.
6.	Т	The ID NOW [™] Instrument is factory calibrated and does not require any further calibration and verification. However, if the instrument was transported or moved, a performance check using ID NOW [™] positive and negative controls is recommended to ensure proper functionality.
7.	Т	If any assay components are dropped, cracked, found to be damaged, or open when received they should not be used and should be discarded.
8.	Т	The blue Sample Receiver will protect the used reaction tubes from accidental breakage.
9.	Т	Additional controls may be tested in order to conform with local, state, and/or federal regulations, accrediting groups, or your lab's standard QC procedures.
10.	F	The ID NOW [™] instrument can be cleaned using a lint free cloth dampened with 70% ethanol or a 10% bleach solution. 70 % Ethanol wipes are acceptable for use on the ID NOW [™] . Do not spray or pour solution directly onto instrument when cleaning. Ensure no excess liquid is used when cleaning as it may damage the instrument. Abbott

recommends that the exterior instrument surfaces and the surfaces visible under the

open lid and the surrounding bench area be cleaned daily.



ID NOW™ Influenza A&B 2 Quiz Answer Key

	Answer Key	Explanation
1.	Т	Swab specimens should be tested as soon as possible after collection. If immediate testing is not possible, the nasal swab can be held in its original package at room temperature for up to two (2) hours prior to testing.
2.	т	If the swab will be held longer than two (2) hours, it must be refrigerated at 2-8°C and tested within 24 hours from the time of sample collection.
3.	F	Both nasopharyngeal and nasal swab specimens are approved for CLIA waived use with the ID NOW [™] Influenza A & B 2 Test.
4.	F	Nasal Swab For optimal test performance, use the swabs provided in the test kit. Alternatively, rayon, foam, HydraFlock [®] Flocked swab (standard tip), HydraFlock® Flocked swab (mini tip), Copan Mini Tip Flocked Swab, or Copan Standard Flocked swabs can be used to collect nasal swab samples.
		Puritan PurFlock Standard Tip Ultra Flocked Swabs, Puritan PurFlock Mini Tip Ultra Flocked Swabs and Copan Standard Rayon Tip Swabs are not suitable for use in this assay.
		Nasopharyngeal Swab Use sterile rayon, foam, polyester or flocked flexible-shaft NP swabs to collect a nasopharyngeal sample.
5.	т	Control swabs are supplied with the kit.
6.	Т	Patient collection swabs are supplied with the kit.
		ID NOW™ RSV Quiz Answer Key
1.	Т	Elute swabs in 0.5 to 3.0 mL of saline or approved VTM within 1 hour of sample collection.
2.	Т	Direct nasopharyngeal swab specimens can be stored in its original package at room temperature up to 2 hours prior to testing, or refrigerated at 2-8°C up to 24 hours from time of collection.
3.	Т	Viral transport media specimens can be stored at room temperature up to 8 hours, or refrigerated at 2-8°C up to 24 hours from time of collection.
4.	F	For optimal performance, use the swab provided in the test kit. Alternatively, sterile rayon, foam, or flocked flexible-shaft NP swabs can be used to collect nasopharyngeal samples.



ID NOW[™] Strep A 2 Quiz Answer Key

	Answer Key	Explanation
1.	F	For optimal performance, use the swabs provided in the test kit. Alternatively, foam, polyester, HydraFlock [®] and nylon flocked throat swabs can be used to collect throat swab samples. The BBL™ CultureSwab™ Liquid Amies transport media system has been tested and is also acceptable.
		Rayon swabs and the BBL™ CultureSwab™ Liquid Stuart transport media system are not suitable for use in this assay.
2.	F	Swab specimens should be tested as soon as possible after collection. If immediate testing is not possible, the throat swab can be held in its original package or a clean, dry plastic tube or sleeve at room temperature (approximately 22°C) or refrigerated at 2-8°C for up to seventy-two (72) hours prior to testing. The collection swab is to be tested following the step-by-step instructions shown on the instrument screen. If immediate testing is not possible, the transport media system can be held at room

3. F The following transport media is acceptable for use: BBL™ CultureSwab™ Liquid Amies transport media system.

BBL[™] CultureSwab[™] Liquid Stuart transport media system is not suitable for use in this assay.

temperature (approximately 22°C) or refrigerated at 2-8°C for up to six (6) hours prior

4. F Collect patient specimen by swabbing the posterior pharynx, tonsils and other inflamed areas. Avoid touching the tongue, cheeks and teeth with the swab.

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to testing.

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