

REFERENCE  
MEDICAL  
LAB®

## Respiratory Pathogen Panel (RPP)

20 PATHOGENS FROM A SINGLE SWAB



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# Respiratory Pathogen Panel (RPP)

20 PATHOGENS FROM A SINGLE SWAB



## Test Description

Each year an estimated 200 million people are infected by some type of respiratory virus, about half of them are children with vulnerable immune systems, resulting in more than 24,000 mortalities. Unfortunately, without the proper tests symptoms can linger on for weeks or even months. For patients who are immune compromised, respiratory viruses may even develop into potentially life threatening conditions. In addition, many commonly encountered respiratory pathogens (viral and bacterial) have similar clinical presentation, making diagnosis based on symptoms alone nearly impossible.

While Influenza viruses are a known cause of respiratory illness, many other pathogens may cause significant impact on patient health as well. For example, Respiratory syncytial virus (RSV) is the most common cause of severe respiratory illness in young children, as well as a leading cause of death from respiratory illness in those aged 65 years and older.

## Benefits of RPP

Accu Reference's Respiratory Pathogen Panel (RPP) detects 20 clinically relevant viral and bacterial respiratory pathogens, including the atypical bacteria *Mycoplasma pneumoniae* and *Chlamydia pneumoniae*. In fact, this panel is the only respiratory assay that can simultaneously detect 20 respiratory pathogens from a single, easily obtained specimen. Utilizing state-of-the-art PCR technology, results can be available in a single day, which allows physicians to accurately diagnose and treat patients a full 7-10 days sooner than legacy culture tests would allow. Same-day results via PCR testing can allow for better medication choices, infection isolation strategies and help avoid unnecessary antibiotic prescriptions and even hospitalizations.



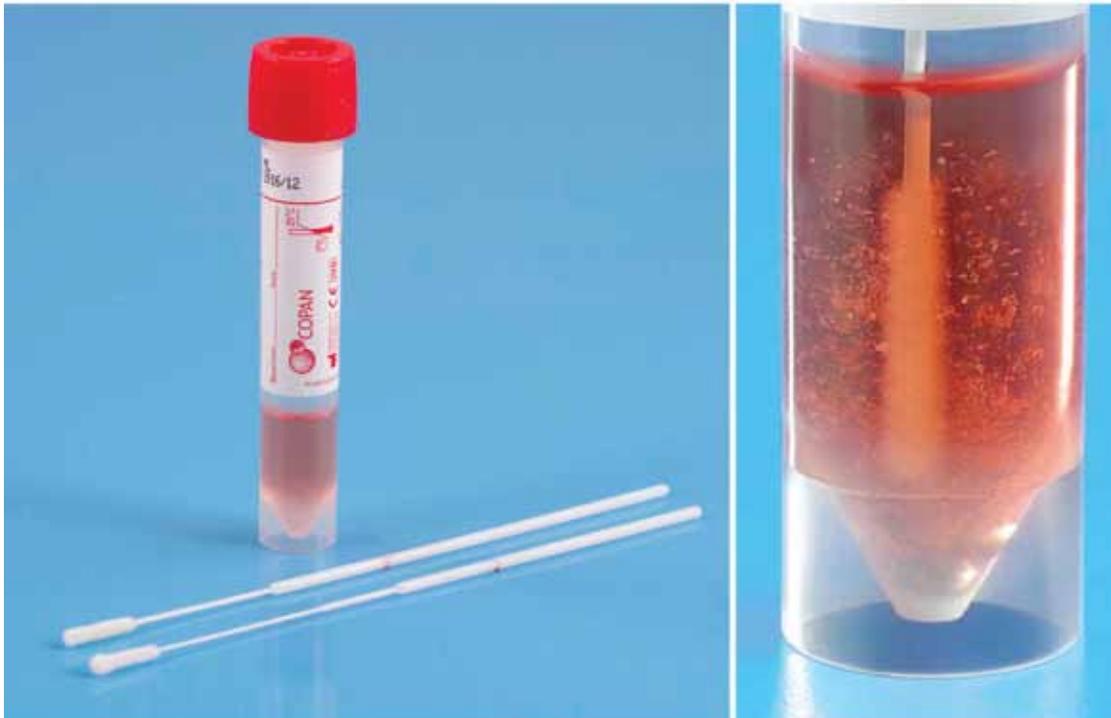
# Respiratory Pathogen Panel (RPP)

20 PATHOGENS FROM A SINGLE SWAB



## Indications and Frequency

At the first sign of respiratory symptoms in the clinical environment, providers can quickly easily obtain a specimen via nasal swab. The test can conveniently be performed rapidly during the extended flu season without disrupting patient flow.



## Test Components

Adenovirus	Human Metapneumovirus	Parainfluenza 2
Chlamydomphila pneumoniae	Influenza A	Parainfluenza 3
Coronavirus 229E	Influenza A H1	Parainfluenza 4
Coronavirus HKU1	Influenza A H3	Respiratory Syncytial Virus A
Coronavirus NL63	Influenza B	Respiratory Syncytial Virus B
Coronavirus OC43	Mycoplasma pneumoniae	Rhinovirus / Enterovirus
Human Bocavirus	Parainfluenza 1	

**TEST ORDERING CODE: RPP**



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Acct: <b>ACCU REFERENCE LAB</b> 1 1901 EAST LINDEN AVE SUITE 4 LINDEN, NJ 07036 (908) 474-1004 Phys:	Patient: <b>FIRST NAME, LAST NAME</b> DOB: 10/05/1985 Age: <b>32</b> Phone: ( ) - Sex: <b>F</b> ID#: 0000000000 Room#: <b></b> Route#: 15 Page: <b>1</b> Fasting: N
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Acc# 0000000000	Coll. Date: 12/19/17	Recv. Date: 12/19/17	Print Date: 12/20/17
Chart#	Coll. Time:	Recv. Time: 02:03 PM	Print Time: 10:46
First reported on:	04/11/17	Final report date:	04/11/17

Test Name	Normal	Out of Range	Normal Range	Units
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**Report Status: FINAL**

**RESPIRATORY PATHOGEN PANEL**

Adenovirus	NOT DETECTED		NOT DETECTED	
Chlamydomphila pneumoniae		<b>DETECTED</b>	NOT DETECTED	
Coronavirus 229E	NOT DETECTED		NOT DETECTED	
Coronavirus HKU1	NOT DETECTED		NOT DETECTED	
Coronavirus NL63	NOT DETECTED		NOT DETECTED	
Coronavirus OC43	NOT DETECTED		NOT DETECTED	
Human Bocavirus	NOT DETECTED		NOT DETECTED	
Human Metapneumovirus	NOT DETECTED		NOT DETECTED	
Influenza A		<b>DETECTED</b>	NOT DETECTED	
Influenza A H1		<b>DETECTED</b>	NOT DETECTED	
Influenza A H3	NOT DETECTED		NOT DETECTED	
Influenza B	NOT DETECTED		NOT DETECTED	
Mycoplasma pneumoniae	NOT DETECTED		NOT DETECTED	
Parainfluenza 1	NOT DETECTED		NOT DETECTED	
Parainfluenza 2	NOT DETECTED		NOT DETECTED	
Parainfluenza 3	NOT DETECTED		NOT DETECTED	
Parainfluenza 4	NOT DETECTED		NOT DETECTED	
Respiratory Syncytial Virus A	NOT DETECTED		NOT DETECTED	
Respiratory Syncytial Virus B	NOT DETECTED		NOT DETECTED	
Rhinovirus / Enterovirus	NOT DETECTED		NOT DETECTED	

COMMENT: The respiratory panel is performed at Accu Reference Medical Labs using the Luminex NxTAG Respiratory Pathogen Panel (RPP). This panel uses multiplex RT-PCR followed by bead hybridization for detection of amplified targets. Negative results do not rule out the possibility of infection. Results should be interpreted in conjunction with other relevant tests and the patient's clinical profile. The NxTag RPP is cleared by the Food and Drug Administration for clinical purposes.

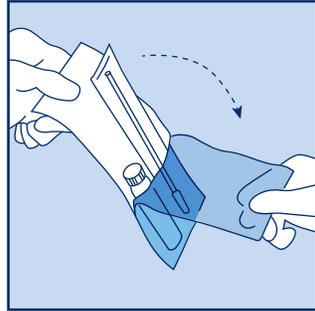
----- END OF REPORT -----

**LABORATORY DIRECTOR**  
**MARTIN KING Ph.D.**

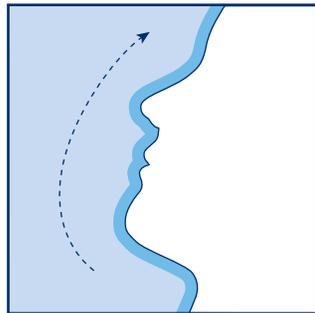
# Nasopharyngeal Swab Specimen collection procedure

*Proper collection and handling of patient specimens are of utmost importance in respiratory virus detection.*

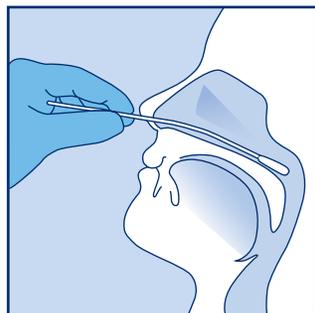
- 1** Open the sterile, flexible minitipped swab package and remove the swab.



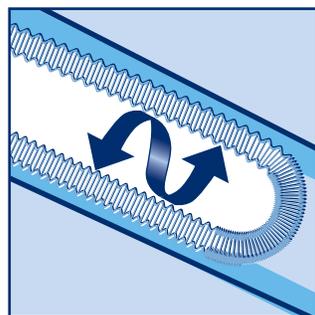
- 2** Tilt the patient's head back (head should be inclined from vertical)



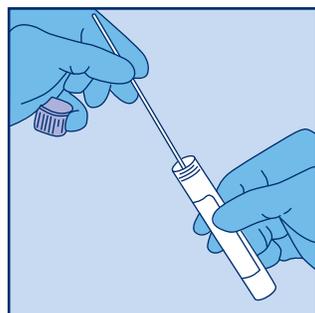
- 3** Gently insert the sterile swab along the nasal septum just above the floor of the passage to the nasopharynx until resistance is met.



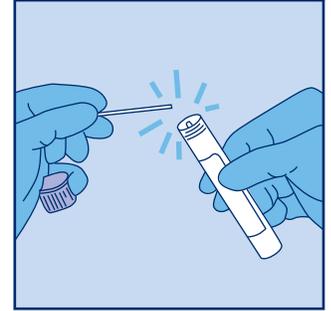
- 4** Rotate the swab gently against the nasopharyngeal mucosa for 10-15 seconds and gently remove the swab.



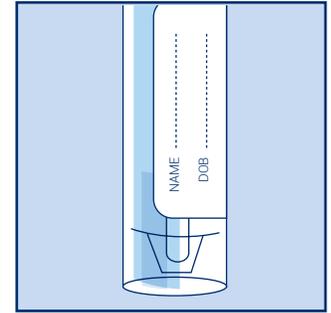
- 5** Insert the swab into the UTM tube pushing it all the way to the bottom of the tube.



- 6** Holding the swab shaft close to the rim of the tube and point the tube away, break the swab shaft along the prescored breakpoint indentation.



- 7** Label specimen appropriately, including two patient identifiers, (e.g. patient name, and date of birth), specimen source and date and time of collection.



- 8** Transport the specimen to the lab after collection. If specimen delivery will be delayed the specimen may be stored at 2-8°C using cold packs, wet or other refrigerant coolants for up to 7 days. If longer storage is required, the specimen should be frozen at -70°C.

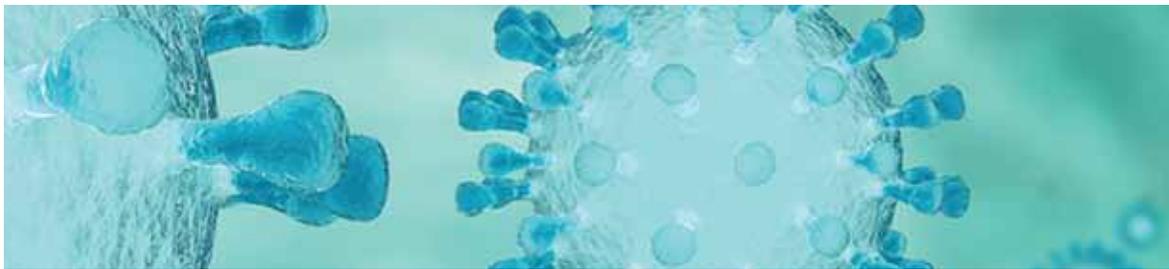
- 9** If you are shipping the specimen via the enclosed pre-paid FedEx Clinical Pak, please make sure that the specimen container is first placed into a specimen bag, that you have enclosed a properly filled out requisition or prescription form and -after sealing the Clinical Pak- that you affix the enclosed pre-paid label to the front of the clinical Pak.

- 10** Call Fedex for pick-up service at **800-GO-FEDEX (800-463-3339)**.



## Specimen Requirements

ACCU REFERENCE ORDERING TEST CODE	RPP
SPECIMEN SOURCE	Nasal
COLLECTION MEDIA	Nasopharyngeal Swab (UTM Swab)
SPECIMEN PREPARATION	Place the swab in Universal Transport Media (UTM). Place each specimen in an individually sealed bag
UNACCEPTABLE CONDITIONS	Specimens not in Universal Transport Media (UTM)
TURN AROUND TIME (TAT)	24 hours
TEST PERFORMED	Monday - Friday



## Sample Harvesting

Nasopharyngeal swab (NPS) collection should be performed according to standard technique and placed in Universal Transport Media (UTM), but customers may validate other specimen collection methods (eg, aspirates, washes, etc). The minimum sample volume should be 200  $\mu$ L within a UTM for appropriate transportation and analysis.

## Sample Transportation

The courier service offered by Accu Reference Medical Lab will transport specimens in a cold bag, providing a constant 4°C.

Clinical specimens can be stored prior to collection between 2°C and 8°C for up to 7 days after collection within a UTM. Specimens may also be stored at <-15°C for up to 1 month prior to the extraction for analysis, and may undergo up to 2 freeze/thaw cycles.




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