April/May 2021

DIAGNOSTIC NEWS

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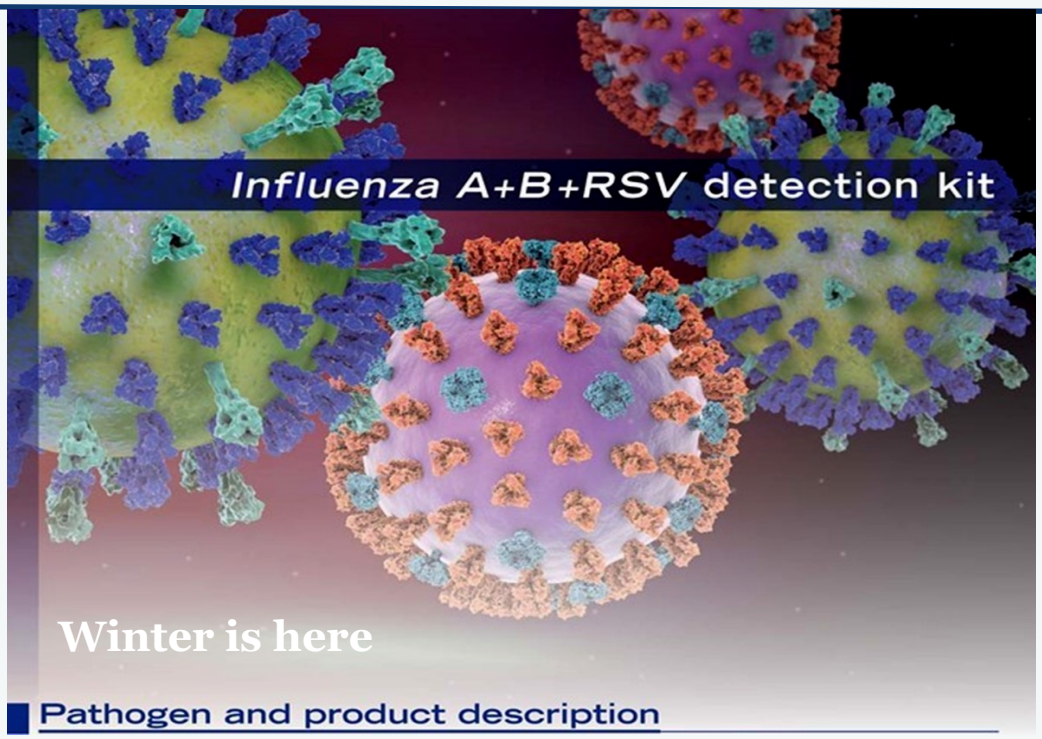


Pathogen and product description

Influenza is caused by a virus that attacks mainly the upper respiratory tract – the nose, throat and bronchi and rarely also the lungs. The infection usually lasts for about a week.

It is characterized by sudden onset of high fever, myalgia, headache and severe malaise, non-productive cough, sore throat and rhinitis.

Most people recover within one to two weeks without requiring any medical treatment. In the very young, the elderly and people suffering from medical conditions such as lung diseases, diabetes, cancer, kidney or heart problems, Influenza poses a serious risk. In these people, the infection may lead to severe complications of underlying diseases, pneumonia and death. The currently circulating Influenza viruses that cause human disease are divided into two groups: A and B. Influenza A has 3 subtypes which are important for humans: A (H_3N_2), A (H_1N_1) and A (H_5N_1), of which the former is currently associated with most deaths.

Influenza viruses are defined by 2 different protein components, known as antigens, on the surface of the virus. They are spike-like features called haemagglutinin (H) and neuraminidase (N) components.

Respiratory Syncytial Virus (RSV) is the most common cause of bronchiolitis and pneumonia among infants and children under 1 year of age. Illness begins most frequently with fever, runny nose, cough and sometimes wheezing.

Severe lower respiratory tract disease may occur at any age, especially among the elderly or among those with compromised cardiac, pulmonary or immune systems. RSV is spread from respiratory secretions through close contact with infected persons or contact with contaminated surfaces or objects.

CerTest Influenza A+B+RSV one step triplecard test is a coloured chromatographic immunoassay for the simultaneous qualitative detection of Influenza type A and type B and Respiratory Syncytial Virus antigens from nasopharyngeal swab, nasopharyngeal wash or aspirate specimens.

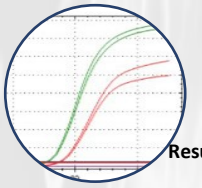
How does SARS-CoV-2 Positive Control Kit help your lab process?

- Monitor instrument performance.
- Improve the diagnosis process: nucleic acid extraction, amplification and detection quality.
- Allows you to obtain comparable results.
- Validate and verify different assays complying with regulatory requirements.

Reconstitution of the Positive Control

Nucleic acid extraction

Real-Time PCR



Result interpretation

Contact us now for further information

*EXTRA*ordinary Service
It's that little *"EXTRA"* that makes us the *BEST!*

B-BBEE VERIFIED
CERTIFIED ISO 13485
UKAS MANAGEMENT SYSTEMS 001

Customer Feedback

As part of our commitment to ISO9001:2008 we are continuously monitoring feedback from our customers.

We are also continually striving to better our *EXTRA*ordinary Service philosophy. Should you have any comments, please send them to:

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www.daviesdiagnostics.co.za

STAFF SNIPPET

We are thrilled to announce the promotion of Deveshin Moonsamy from Technical Sales consultant to Sales Area Manager in KZN. Dev joined the company six years ago. Please join us in congratulating Dev on his new position.

good thinking

When it comes to making life liveable, small pieces of wisdom are often more valuable than great weighty thoughts!

Parkinson's Law! - "work expands to fill the time available for its conclusion" (oh - so true!)

Dead Weddings! - Since 1959, it has been legal to marry a dead person in France, provided you can prove the wedding was already planned!

The law was introduced following the Malpasset dam disaster in which 421 people died. Up to 20 posthumous marriages are approved by the French president each year!

Are you nuts!: *Peanuts, also known as ground nuts, aren't nuts! They are a type of pea which grows underground! They are native to South America but are now grown all around the world.*

Anaerobic cultivation

Easy to Handle: No water, no catalyst. Just only to put Anaero Pack in jar. Produces suitable atmosphere to grow microorganism. Three types of cultivation, i.e. anaerobic, microaerophilic and CO2 cultivation are easy to prepare.

Excellent Cultivation: The concentration of CO2 can be selected: 16 % or more for anaerobe, 5-8 % for microaerophiles and Co² 5 % for capnophiles. As for anaerobe, high CO2 concentrations help to enlarge the size of colonies.

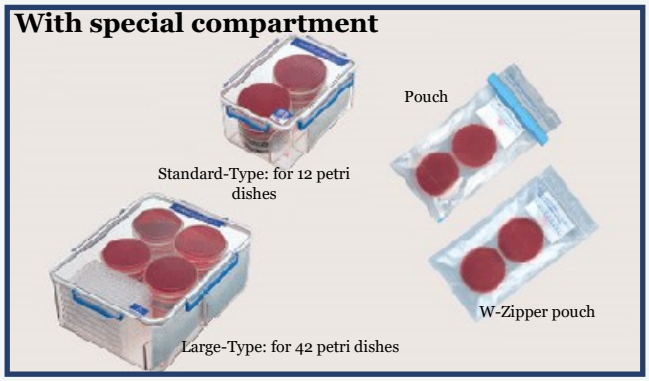
Very Economical:
The prices of Anaero Pack are reasonable. Easy to cultivate with usual jars. No need to prepare any large equipment.

Applicable for any types of Jars:
Anaerobic cultivation by Anaero Pack does not cause the excess change of pressure inside the jar. And does not generate high temperature. Those enable to use any types of jar.

Method	For Jar	For Pouch, Thin-Type Jar
Anaerobic	Anaero Pack- Anaero	AnaeroPouch- Anaero (for Pouch)
Microaerophilic	Anaero Pack- MicroAero	AnaeroPouch- MicroAero (for Pouch)
Capnophilic	Anaero Pack- CO2	AnaeroPouch-CO2 (for Pouch)
Medium Pre-Reduction	Anaero Pack- Keep (for Standing-Pouch)	AnaeroPouch- Keep (for Pouch)

The Complete Atmospheric Gas Generating System for Microbiology

Examples of cultivation using rectangular jars with compartment / Example of cultivation using pouch



Oxygen Indicator

This product is to check oxygen free or not with visible colour. If the oxygen level inside of a bag is about 0.5% or more, it shows blue. and if it is about 0.1% or less, it shows pink.

Oxygen present

Pink before opening, turns blue after contact with the air. If the RP reagent creates an oxygen free condition, the indicator returns pink again.

The colour of the indicator will be unsure after long-term storage. The oxygen indicator is thermal, light and oxygen sensitive.

Contact us now for further information!

Oxygen free

Extended range now in stock.

MAST ®ASSURE
Bacterial Agglutinating Antisera

MAST® ASSURE Bacterial Agglutinating Antisera is a comprehensive range of both polyvalent and monovalent antisera for slide and tube agglutination

MAST® ASSURE Antisera products are used globally for antigenic analysis of clinically significant bacteria such as Salmonella spp, Shigella spp, Vibrio cholerae, Escherichia coli and many more.

These are liquid stable reagents for the determination of specific antigens of pathogenic bacteria for identification and typing purposes.

Salmonella, Shigella, E. coli, V. cholerae, Yersinia, Listeria and Legionella are all available from stock. An extensive range of MAST® ASSURE additional antisera is available for special manufacture order, including Campylobacter, Clostridium and Haemophilus.

Presented in a 2ml bottle ensuring minimum laboratory wastage the **MAST® ASSURE** Antisera products guarantee high quality, simple slide and test-tube agglutinations with easy to read results.

Be Assured with MAST® ASSURE Agglutinating Antisera

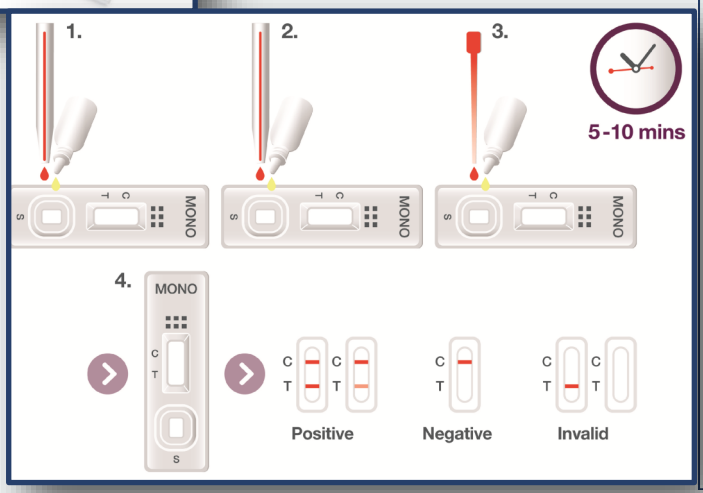
PathFlow® Rapid Tests

PathFlow™ Mononucleosis is a qualitative, lateral flow immunoassay for the detection of IM heterophile antibodies in whole blood, serum or plasma.
Infectious Mononucleosis (IM), also known as glandular fever, is caused by the Epstein-Barr virus, a member of the herpes virus family.

Symptoms of IM are fever, sore throat and swollen lymph glands. In very rare cases, heart or central nervous system problems may arise from infection.

PathFlow™ Mononucleosis allows for the differential diagnosis of Infectious Mononucleosis in cases where it may otherwise be diagnosed as cytomegalovirus infection, or streptococcal pharyngitis.

Although cytomegalovirus infection is normally managed in much the same way as IM, in pregnant women it can have a very different outcome for the mother's unborn child. Also, diagnosis of IM can prevent the over-prescribing of antibiotics that are usually offered as a result of streptococcal pharyngitis.



RIDASCREEN® ENTAMOEBA HISTOLYTICA IgG

The RIDASCREEN® Entamoeba histolytica IgG test is an enzyme immunoassay for the qualitative determination of IgG antibodies against Entamoeba histolytica in human serum.

The test should be used for confirmation purposes when there is a suspected case of amoebiasis.

RIDASCREEN ® ECHINOCOCCUS IgG

The RIDASCREEN® Echinococcus IgG test is an enzyme immunoassay for the qualitative determination of IgG antibodies against Echinococcus granulosus und Echinococcus multilocularis in human serum.

The test should be used for confirmation purposes when there is a suspected case of infection with Echinococcus.

Specific antibodies against the pathogen are generated as reaction of the immune system after an infection with Echinococcus.

The antibodies can be detected in serum by use of immunological test methods.

In addition to the used pathogen specific antigen, the test reliability depends on the chosen diagnostic method.

An enzyme immunoassay often shows a better sensitivity and specificity compared to other serological methods.

Flow Cytometry

Cyto-Chex BCT is a direct draw blood collection tube for the collection and storage of whole blood specimens for immunophenotyping of white blood cells by flow cytometry. Cyto-Chex BCT has been FDA 510(k) cleared for consistent recovery of HIV-associated lymphocyte subsets for 14 days following collection.

Cyto-Chex® BCT

Streck Cell Preservative is an easy-to-use liquid preservative that maintains white blood cell integrity and the antigenic sites of biological samples, allowing CD markers to be recovered through flow cytometric analysis. It preserves peripheral and cord blood samples, surgical tissue samples, bone marrow and fine needle aspirates. Samples treated with Streck Cell Preservative can be maintained for up to 7 days prior to analysis by flow cytometry.

Streck Cell Preservative™

CD-Chex Select is a positive procedural control

It is an assayed, whole blood control that features a cap pierceable vial for use with automated flow cytometry sample preparation instruments.

CD-Chex Select®

CD-Chex Plus BC is a positive procedural control for immunophenotyping by flow cytometry on Beckman Coulter® flow cytometry systems. It is assayed for 30 parameters including T-lymphocytes, B-lymphocytes, granulocytes, monocytes, NK cells and a normal level of CD34+ cells. The whole blood control is available in two clinically relevant levels of CD4+ cells.

CD-Chex Plus® & CD-Chex Plus® BC*

CD-Chex CD103 Plus is the only commercially available flow cytometry control that includes CD103, CD30, CD38, CD56, CD138 and cytoplasmic Lambda. It is a unique, positive procedural control with two distinct abnormal leukocyte populations: CD45+ and CD45-.

CD-Chex CD103 Plus®

CD-Chex Plus is a positive procedural control for immunophenotyping by flow cytometry on BD Biosciences® and Beckman Coulter® flow cytometry systems. Assayed for 30 parameters including T-lymphocytes, B-lymphocytes, granulocytes, NK cells and a normal level of CD34+ cells. The whole blood control is available in two clinically relevant levels of CD4+ cells.

CD-Chex TdT Plus®

CD-Chex CD34 is the only commercially available three-level process control for enumerating CD34 positive cells by flow cytometry. It is an assayed, whole blood control that requires no dilution and provides reference values similar to levels found in bone marrow, cord blood and mobilized patient samples.

CD-Chex CD34®