

ROTAVIRUS AND ADENOVIRUS

The PathFlow™ Rota/Adeno Combi Cassette is a rapid chromatographic immunoassay for the qualitative detection of rotavirus and adenovirus in human faeces.

What is the Test?

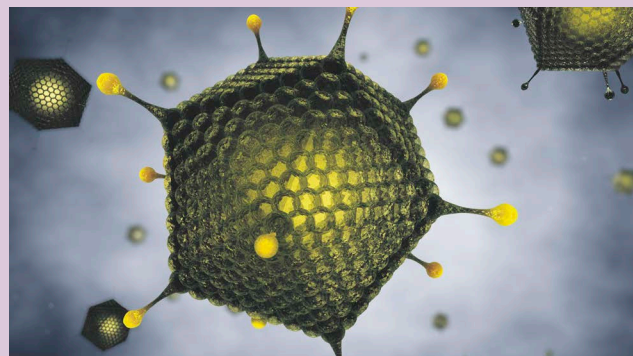
- The PathFlow™ Rota/Adeno Combi Test Cassette is a rapid chromatographic immunoassay for the qualitative detection of rotavirus and adenovirus in human faeces; the test utilises antibodies specific for rotavirus and adenovirus to selectively detect rotavirus and adenovirus from specimens.

What is the Disease?

- Acute diarrhoea disease in young children is a major cause of morbidity worldwide and is a leading cause of mortality in developing countries; rotavirus is the most common agent responsible for acute gastroenteritis, followed by enteric adenoviruses (primarily Ad40 & Ad41).
- Rotavirus infections occur frequently during winter months, they may be endemic (confined to a population) or may spread widely (epidemic). Infections affecting some thousand people have been reported; In the case of hospitalised children with acute enteritis, up to 50% of the samples examined are rotavirus positive.
- Adenoviruses have been isolated throughout the world and can cause diarrhoea in children year-round, frequently seen in children less than two years of age. Further studies indicate adenoviruses are associated with 4-15% of all hospitalised cases of viral gastroenteritis.

Symptoms

- Typical symptoms of viral gastroenteritis are; watery diarrhoea, vomiting, headaches, fever and abdominal



cramps. Symptoms begin 1-2 days following infection and may last for 1-3 days (rotavirus) or 5-8 days (adenovirus).

- Apart from gastroenteritis, adenovirus primarily causes certain respiratory illnesses, such as; pneumonia, acute pharyngitis, pharyngoconjunctival fever and bronchitis.

Mortality/Morbidity – Clinical Implications

- Early and reliable detection so that rotaviruses can be recognised, and further infections avoided, is very important in management of infections; especially within clinical environments.
- Rapid and accurate diagnosis of gastroenteritis due to adenovirus is helpful in establishing the aetiology of gastroenteritis and related patient management.

- Complete system, no additional reagents required.
- Simple and easy to use.
- Rapid result offered. Available after 10 minutes or within 20 minutes.
- In-built procedural control.
- Can be used with both solid and liquid faecal specimens.
- Simultaneous testing for rotavirus and adenovirus.

Why use PathFlow™

- Diagnostic techniques such as electron microscopy (EM) and nucleic acid hybridisation are expensive and labour-intensive.
- The PathFlow™ Rota/Adeno Combi Test Cassette is a rapid chromatographic immunoassay for the qualitative detection of rotavirus and adenovirus in human faeces, providing results from 10 minutes – offering an easy-to-use, rapid alternative.



Performance – Tested vs. Latex Agglutination

Rotavirus

Sensitivity – 97.3%

Specificity – 97.1%

Accuracy – 97.2%

Adenovirus

Sensitivity – 95.2%

Specificity – 97.7%

Accuracy – 96.8%

Ordering Information

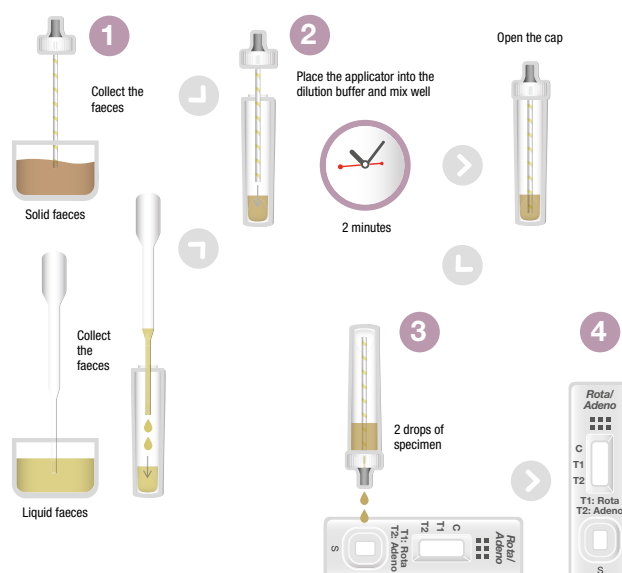
Code – M595CE

Description – PathFlow™ Rotavirus/Adenovirus Combi

Size – 25 Test Kits

Storage – 2°C-30°C

Procedure



Step 1. Collect sufficient quantity of faeces (1-2ml/g). Optimum results will be obtained if the assay is performed within 6 hours.

Step 2. Solid Specimens – Unscrew the cap on the sample collection tube and collect approximately 50mg of faeces. Liquid Specimens – Hold the dropper vertically, aspirate faecal specimens and then transfer 2 drops (approximately 50µl) into specimen collection tube. Tighten the cap on the specimen collection tube and shake vigorously, leave for 2 minutes. Bring the pouch to room temperature before opening it, remove the cassette and use within one hour.

Step 3. Hold the specimen collection tube upright and open the cap onto the specimen collection tube. Invert the collection tube and transfer 2 full drops of extracted specimen (approximately 80µl) to the specimen well on the test cassette and start the timer.

Step 4. Read the result after 10 minutes, do not read after 20 minutes.

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PathFlow™ - Leading The
Way to a Better Diagnosis



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