



# RSV/Adeno Test

## OVERVIEW

The OSOM® RSV/Adenovirus Rapid Test offers an exciting opportunity for sales growth in 2013. The test has some unique features which allow it to be effectively positioned against other rapid tests and alternative testing methods.

## BACKGROUND

“Respiratory Syncytial Virus (RSV) is the most common cause of lower respiratory tract infection in young children...Approximately 80% of children are infected by 2 years of age, but re-infection can occur throughout life. **RSV is the commonest cause of hospitalization in children aged <1 year and it causes more severe disease in high-risk infants.**” (Goddard, 2006)

Adenovirus is a group of viruses that infect the membranes of the respiratory tract, the eyes, the intestines and urinary tract. “Epidemiological data suggest that the majority of adenovirus infections occur in the first 5 years of life, with a peak incidence during the first 2 years. Adenovirus infections are common, **accounting for approximately 5–15% of upper respiratory tract and approximately 5% of lower respiratory tract infections during childhood**” (Tebruegge, 2012).

## DIAGNOSIS

Diagnosis based on clinical symptoms alone can be problematic, as they overlap with other viral and bacterial infections. Diagnosing RSV and Adenovirus can be done in a number of ways, each of which carries advantages and limitations.

RSV	ADENOVIRUS
<b>Culture</b> <ul style="list-style-type: none"> <li>○ Sensitive, however requires sample stability during transport</li> <li>○ 3-10 days to result</li> <li>○ Labour intensive</li> </ul>	<b>Culture</b> <ul style="list-style-type: none"> <li>○ Gold Standard</li> <li>○ Can take up to 3 weeks for results</li> <li>○ Labour intensive</li> </ul>
<b>Molecular</b> <ul style="list-style-type: none"> <li>○ Highly sensitive</li> <li>○ Results not available at POC</li> <li>○ Expensive</li> </ul>	<b>Molecular</b> <ul style="list-style-type: none"> <li>○ Highly sensitive</li> <li>○ Results not available at POC</li> <li>○ Expensive</li> </ul>
<b>Antigen (OSOM® Rapid Test)</b> <ul style="list-style-type: none"> <li>○ &lt;10 minutes – POC Test</li> <li>○ 90.4% sensitive, 99% specificity (vs PCR)</li> </ul>	<b>Antigen (OSOM® Rapid Test)</b> <ul style="list-style-type: none"> <li>○ &lt;10 minutes – POC Test</li> <li>○ 85% sensitive, 98.4% specificity (vs PCR)</li> </ul>

POINT OF CARE TESTING FOR RSV/ADENO

There are a number of advantages to point of care testing;

- Rapidly diagnose or rule out RSV/Adenovirus Infection
- Reduce the spread of the virus
- Lessen severity and complications by treating symptoms early
- Decrease unnecessary antibiotic use while waiting for results

Call points within the hospital vary greatly these days. In addition to targeting the laboratory, suggested call points are the clinical teams in the Emergency Department and Paediatric Units.

OSOM® ANSWERS FOR HEALTHCARE

We strive to help customers meet the challenges of rapidly changing healthcare systems by:

- Improving outcomes
- Creating better patient experiences
- Lowering costs



Please see the OSOM® RSV/Adenovirus “Answers for Healthcare Sheet” for more information.

RAPID TEST COMPARISON CHART

	OSOM® RSV/ Adenovirus Rapid Test	CerTest RSV- Adeno Respi-Strip	Quidel QuickVue RSV	Alere Binax Now RSV	BD Directigen EZ RSV	Actim RSV Test
Rapid Immunoassay for the qualitative detection of RSV	X	X	X	X	X	X
Test includes additional result for diagnosis of Adeno	X	X				
10 minutes test	X	X				
Compared to PCR in the package insert	X					
No Specific Age requirements reported in package insert	X					X

Data sourced from Manufacturer’s Package Inserts

**OSOM® ADVANTAGES**

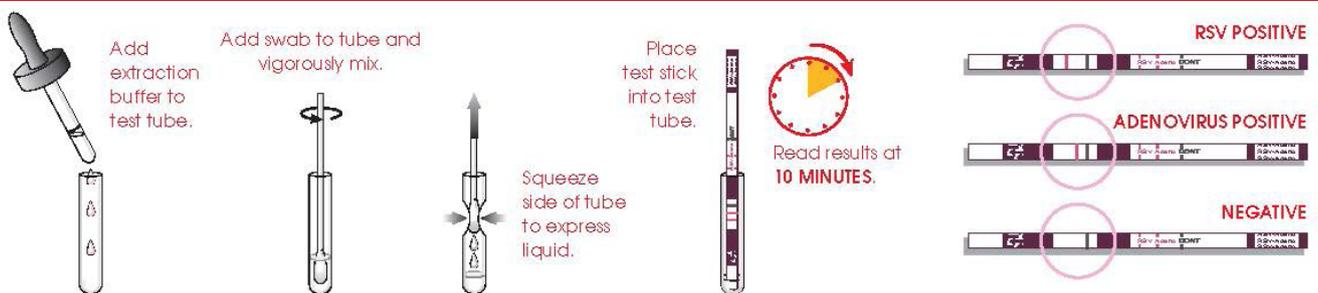
- **Added Value:** Provides the ability to test for two common viral infections with similar symptoms on one dipstick. This supports effective patient management and infection control procedures.
- **Excellent Accuracy:** Sensitivity and Specificity compared to PCR
- **Fast:** Results in only ten minutes, allowing quick decision-making and patient management

**OSOM® PRODUCT OVERVIEW**

<b>Kit Configuration</b>	25 dipsticks 1 Bottle Extraction Buffer 1 dropper top for Extraction Buffer 25 Copan Swabs 1 Package insert with procedure panel 25 Tubes
<b>Controls</b>	5 OSOM® RSV Control Swabs (blue shaft foam swab packaged with a desiccant tablet) 5 OSOM® Adenovirus Control Swabs (pink shaft foam swab packaged with a desiccant tablet)
<b>Shelf Life and Storage</b>	OSOM® RSV/Adenovirus Test (197E): 24 months (Room Temperature) OSOM® RSV/Adeno Control Kit (198E): 30 months (Room Temperature)

Ordering Information	Configuration	Catalog Number
○ OSOM® RSV/Adeno Test	25 Tests	197E (CE marked)
○ OSOM® RSV/Adeno Control Kit	5 RSV Swabs, 5 Adeno Swabs	198E (CE marked)

**TEST PROCEDURE / RESULTS**



Goddard N.L., Cooke M.C. et al; Timing of monoclonal antibody for seasonal RSV prophylaxis in the United Kingdom; *Epidemiology and Infection*; 2006  
 Tebruegge M., Curtis N; Adenovirus: An Overview for Pediatric Infectious Disease Specialists; *The Pediatric Infectious Disease Journal*; Volume 13, Number 6, June 2012



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