

IMMULEX™ S. PNEUMONIAE OMNI

STATENS
SERUM
INSTITUT



SSI Diagnostica
2 Herredsvejen
DK-3400 Hillerød
Denmark

T +45 4829 9178
F +45 4829 9179
@ ssidiagnostica@ssi.dk
w ssi.dk/ssidiagnostica



IMMULEX™ S. PNEUMONIAE OMNI

Description

The ImmuLex™ *S. pneumoniae* Omni is a rapid latex agglutination test for detection of *Streptococcus pneumoniae* (*S. pneumoniae*).

It is a ready-to-use latex test for quick detection of all 92 *S. pneumoniae* serotypes directly from a positive blood culture or from a pure culture. A positive reaction is visible to the naked eye within 5 seconds for blood culture and 10 seconds for pure culture.

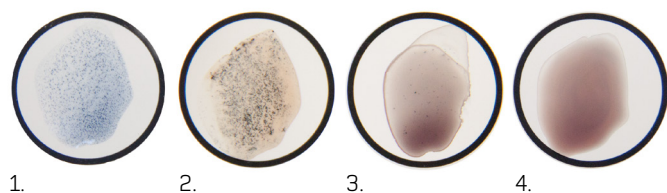


Figure 1. ImmuLex™ *S. pneumoniae* Omni reactions.

Figure 1 shows four reactions. From left to right: Circle 1 and 2 are positive reactions – the first in pure culture, and the second in blood culture. Circle 3 and 4 are negative reactions, both in blood culture. Notice that circle 3 shows some granules, but this is not a true positive reaction.

The ImmuLex™ *S. pneumoniae* Omni kit contains a bottle of latex particles coated with pneumococcal antiserum raised in rabbits (0.0975% sodium azide as preservation). The ImmuLex™ *S. pneumoniae* Omni is provided in 1 mL vials which corresponds to approximately 75 tests. The kit also includes 25 reaction cards plus a positive and a negative control.

Background

S. pneumoniae is a major cause of invasive infection, and WHO estimates that approximately 1.6 million people die of severe pneumococcal infections every year.¹ *S. pneumoniae* is the leading cause of community-acquired pneumonia and may be the most important agent in community-acquired pneumonia of unknown etiology.² *S. pneumoniae* infection can lead to bacteremia, meningitis, pericarditis, empyema, purpura fulminans, endocarditis and/or arthritis. A rapid diagnosis of especially pneumococcal pneumonia and meningitis is important as these infections can normally be treated with penicillin, which is inexpensive, and does not induce antibiotic resistance at the same level as other antibiotics.³

Application

A drop of latex suspension is placed next to a drop of positive blood culture medium in the circle on the reaction card. The two drops are quickly mixed with a mixing stick and spread to cover the complete area of the circle. A positive result will show within 5 seconds. A reaction after 15 seconds is a negative result. Procedure for pure culture please see package insert.

Sensitivity & Specificity

When testing the performance of ImmuLex™ *S. pneumoniae* Omni, it proved a sensitivity of 98 % and a specificity of 96 %.

ImmuLex™ <i>S. pneumoniae</i> Omni	Positive Blood Culture	Negative Blood Culture
Sensitivity (n = 186): 98 %	182	4
Specificity (n = 69): 96 %	3	66

Storage and Shelf Life

Store at 2-8 °C. Expiry date is printed on the package. Do not freeze (if the reagents have accidentally been frozen, they should not be used).

Product Assortment

ImmuLex™ *S. pneumoniae* Omni art. no. 91398

References

1. Rapid detection of *Streptococcus pneumoniae* in spiked sheep blood culture. S. Otte, I. C. Skovsted, M. B. Kernn, and P. L. Elverdal, Copenhagen, 2013
2. ImmuLex™ *S. pneumoniae* Omni – a new latex agglutination test for rapid detection of *S. pneumoniae* in blood cultures and plate cultures. S. Otte, M. S. Haugan, H. B. Eriksen, M. B. Kernn, and P. L. Elverdal, Copenhagen, 2013
3. Community-acquired pneumonia. File TM. Lancet 2003, 3362: 1991 – 2001, dec 13
4. Severe pneumococcal pneumonia. New strategies for management. Chiou CCC, Yu VL Curr Opin Crit Care 2006, 12: 470-476
5. Novel approaches to the identification of *Streptococcus pneumoniae* as the cause of community-acquired pneumonia. Klugman KP, Madhi SA, Albrich WC. 2008 CID 47: 202-206

Information and Ordering

SSI Diagnostica
2 Herredsvejen
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T +45 4829 9178
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@ ssidiagnostica@ssi.dk
W ssi.dk/ssidiagnostica
shop.ssi.dk

