RESPIRATORY BACTERIAL PANEL STRIP

Detection of bacteria associated with respiratory tract infections

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RESPIRATORY BACTERIAL PANEL STRIP

Test for the detection of **14 bacteria** associated with respiratory tract infections

Acute respiratory infection is a worldwide health problem that currently accounts for 30-40 % of hospital admissions among children. A wide range of both viral and bacterial pathogens are involved in these types of infections. It is difficult to differentiate the pathogens by simply analyzing the patient's symptoms given that they overlap.

It is vitally important to quickly identify the agent causing the respiratory infection and, particularly, whether it has a viral or bacterial source, in order to:

a) enable better use of antimicrobials, including anti-virals and antibiotics.

b) limit the development of bacterial resistances.

c) lead to fewer paraclinical examinations and shorter hospitalizations.

d) support the rapid implementation of isolation measures when required, reducing the risk of nosocomial transmission.

e) help with real time epidemiological data collection about the seasonal spread of pathogens.

f) help to identify simultaneous or successive infections.

The Respiratory Bacterial Panel Strip kit uses the reverse hybridization principle and enables the detection and identification of 14 bacteria associated with respiratory tract infections in respiratory DNA samples.

Procedure

DNA sample extraction → **PCR*** → **Hybridation protocol**

* Opegen kits include all the necessary reagents even Taq polymerase.

Just like all our products from the Opegen line based on reverse hybridization, Respiratory Bacterial Panel Strip test can be performed both manually or automatically, and the kit includes all necessary reagents and internal controls ready for use.

Highlights

Many different types of validated samples: DNA extracted from pleural fluid, bronchoalveolar washes/aspirates, sputum, nasopharyngeal washes/aspirates, nasopharyngeal smear, ear smear and conjunctival smear.

High sensitivity and specificity.

Detection of 14 respiratory related bacteria in just one analysis.

Detection and differentiation of the most relevant *Legionella spp.*

Detection of *H. influenzae* distinguishing serotype b.

Detection and differentiation of the most relevant *Bordetella spp.*

CE IVD marked.

Results

Respiratory Bacterial Panel Strip

Developing control
Control line
BGB
S. pneumoniae
B. pertussis
B. parapertussis
B. holmesii
Legionella spp.
L. pneumophila
L. micdadei
L. longbeachae
L. bozemanae
M. pneumoniae
C. pneumoniae
H. influenzae
H. influenzae type b
M. catarrhalis
Control line