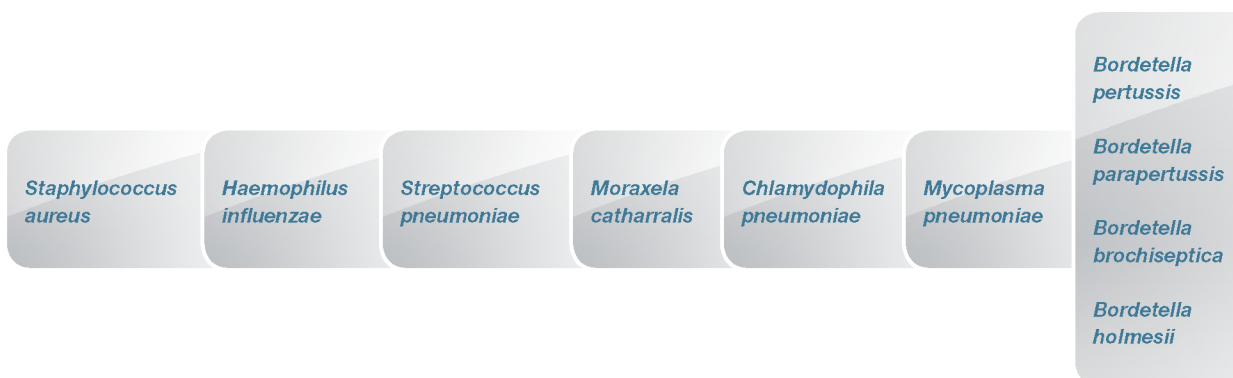




PneumoCLART bacteria®

Detecting bacteria causing respiratory tract infections



MAIN ADVANTAGES OF MULTIPLE MOLECULAR DETECTION OF RESPIRATORY BACTERIA :

Virus-bacteria co-infection represents more than 60% of all community acquired pneumonia. Multiplex MDx techniques allows the detection of such co-infections, providing greater sensitivity and standardizing the multiple methodologies used so far for the detection of those microorganism causing respiratory tract infections.

Moreover, Multiplex MDx techniques:

- ▶ Reduce the drawbacks and limitations of conventional detection methods.
- ▶ Allows pathogen-directed treatment.
- ▶ Anticipate illness potential complications.

FEATURES :

- PneumoCLART bacteria® has been validated for automatic DNA extraction from sputum, nasopharyngeal lavages/ exudates/aspirates, BAL and bronchial suction.
- Antibiotic resistance detection (Mec A genes).
- High sensitivity and specificity.
- Three quality controls included per sample:
 - **Genomic DNA control:** validates the extraction performance.
 - **Amplification control:** avoids false negative results.
 - **Biotin markers:** check the proper performance of the visualization reagents provided.

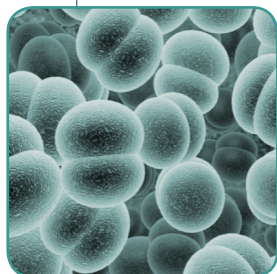
- Each target is detected in triplicate avoiding unspecific bindings.
- Results are obtained within a working day.
- Considerably reduction of turnaround time.
- Compatible with any GENOMICA automation system.

DATA MANAGEMENT :

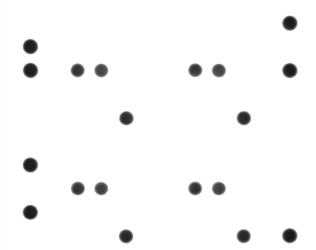
- Automatic reading and interpretation of results (CAR®).
- User-friendly report format (html, bmp).
- Samples are analyzed individually and three complementary reports are generated.
- Every report generated can be stored, exported and printed.



REPORTING RESULTS :



► Report and image obtained by CAR® reader.



A2

Result view		AT code: 50516
PneumoCLART bacteria		Rev. 16to3
Sample reference:	3	
Array ID:	000000050516 (C1)	
Analysis type:	tmb end point detection	
Date and time:	Fri Jan 14 15:25:36 2011	

Bacteria	Result	Controls
<i>Staphylococcus aureus</i>	Negative	Passed
<i>Haemophilus influenzae</i>	Negative	Passed
<i>Streptococcus pneumoniae</i>	Negative	Passed
<i>Moraxella catarrhalis</i>	Negative	Passed

ORDERING REFERENCES AND CONTACT DETAILS :

PneumoCLART bacteria® Amplification

48 tests: CS-1013-48

PneumoCLART bacteria® Visualization

48 tests: CS-1213-48

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BIBLIOGRAPHY :

1. "Acute Respiratory Infection Due to Chlamydia pneumoniae: Current Status of Diagnostic Methods". Swati Kumar and Margaret R. Hammerschlag. Clinical Infectious Diseases 2007; 44:568– 76.
2. "Limited Utility of Culture for Mycoplasma pneumoniae and Chlamydophila pneumoniae for Diagnosis of Respiratory Tract Infections". Rosemary C. She, Andy Thurber, Weston C. Hymas, Jeffery Stevenson, Janine Langer, Christine M. Litwin and Cathy A. Petti. JOURNAL OF CLINICAL MICROBIOLOGY, Sept. 2010, p. 3380–3382
3. "Associations between Pathogens in the Upper Respiratory Tract of Young Children: Interplay between Viruses and Bacteria" Menno R. van den Bergh, Giske Biesbroek, John W. A. Rossen, Wouter A. A. de Steenhuisen Pters, Astrid A. T. M. Bosch, Elske J. M. van Gils, Xinhui Wang, Chantal W. B. Boonacker, Reinier H. Veenhoven, Jacob P. Bruin, Debby Bogaert, Elisabeth A. M. Sanders. PLOS ONE, October 2012, 7,10 .
4. "Diagnóstico microbiológico de las infecciones bacterianas del tracto respiratorio inferior" Juana Begoña Cacho Calvo, María Antonia Meseguer Peinado, Antonio Oliver Palomo, Jorge Puig de la Bellacasa, Protocolos SEIMC 2007.