

Patient Name : Demo Patient Name
Age / Sex : 77 Y / M
Referred By : DEMO HOSPITAL
Centre : HOD Head Office

Lab No : Demo Visit No
Registration On : 09-Dec-24 19:01
Patient ID : UHID.DEMO.001

BioFire Sputum Pneumonia (PN) Panel

Accession No: DEMO_BARCODE **Collected On:** 09-Dec-24 19:01 **Received On:** 09-Dec-24 20:39 **Approved On:** 10-Dec-24 15:43

Observation	Result	Unit	Biological Ref. Interval	Method
<u>Bacteria.</u>				
Acinetobacter calcoaceticus-baumannii complex	Not Detected			Nested real-time polymerase chain reaction (PCR)
Enterobacter cloacae complex	Not Detected			Nested real-time polymerase chain reaction (PCR)
Escherichia coli	Not Detected			Nested real-time polymerase chain reaction (PCR)
Haemophilus influenzae	Not Detected			Nested real-time polymerase chain reaction (PCR)
Klebsiella aerogenes	Not Detected			Nested real-time polymerase chain reaction (PCR)
Klebsiella oxytoca	Not Detected			Nested real-time polymerase chain reaction (PCR)
Klebsiella pneumoniae group	Not Detected			Nested real-time polymerase chain reaction (PCR)
Moraxella catarrhalis	Not Detected			Nested real-time polymerase chain reaction (PCR)
Proteus spp.	Not Detected			Nested real-time polymerase chain reaction (PCR)
Pseudomonas aeruginosa	Not Detected			Nested real-time polymerase chain reaction (PCR)
Serratia marcescens	Not Detected			Nested real-time polymerase chain reaction (PCR)
Staphylococcus aureus	Not Detected			Nested real-time polymerase chain reaction (PCR)
Streptococcus agalactiae	Not Detected			Nested real-time polymerase chain reaction (PCR)
Streptococcus pneumoniae	Not Detected			Nested real-time polymerase chain reaction (PCR)
Streptococcus pyogenes	Not Detected			Nested real-time polymerase chain reaction (PCR)
<u>Antimicrobial Resistance Genes</u>				
CTX-M (ESBL)	Not Detected			Nested real-time polymerase chain reaction (PCR)
IMP	Not Detected			Nested real-time polymerase chain reaction (PCR)
KPC	Not Detected			Nested real-time polymerase chain reaction (PCR)
NDM	Not Detected			Nested real-time polymerase chain reaction (PCR)
OXA-48-like	Not Detected			Nested real-time polymerase chain reaction (PCR)
VIM	Not Detected			Nested real-time polymerase chain reaction (PCR)
<u>Atypical Bacteria</u>				
Chlamydia pneumoniae	Not Detected			Nested real-time polymerase chain reaction (PCR)
Legionella pneumophila	Not Detected			Nested real-time polymerase chain reaction (PCR)
Mycoplasma pneumoniae	Not Detected			Nested real-time polymerase chain reaction (PCR)



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Observation	Result	Unit	Biological Ref. Interval	Method
mecA/C and MREJ (MRSA) (Methicillin Resistance)	Not Detected			Nested real-time polymerase chain reaction (PCR)
Viruses				
Adenovirus	Not Detected			Nested real-time polymerase chain reaction (PCR)
Coronavirus	Not Detected			Nested real-time polymerase chain reaction (PCR)
Human metapneumovirus	Not Detected			Nested real-time polymerase chain reaction (PCR)
Human rhinovirus/enterovirus	Detected			Nested real-time polymerase chain reaction (PCR)
Influenza A virus	Not Detected			Nested real-time polymerase chain reaction (PCR)
Influenza B virus	Not Detected			Nested real-time polymerase chain reaction (PCR)
Parainfluenza virus	Not Detected			Nested real-time polymerase chain reaction (PCR)
Respiratory syncytial virus	Not Detected			BioFire - Rapid Multiplex PCR

Notes:

- Results of the Biofire Pneumonia Plus panel are intended to aid in the diagnosis of respiratory infections and are meant to be used in conjunction with other tests and clinical findings
- This assay is not intended to monitor the efficacy of treatment, serotyping, genotyping and speciation of organisms included in the panel.
- Antimicrobial resistance can occur via multiple mechanisms. A negative result for a genetic marker of antimicrobial resistance does not indicate susceptibility to associated antimicrobial drugs or drug classes. A positive result for a genetic marker of antimicrobial resistance cannot be definitively linked to the microorganism(s) detected.

Interpretation

RESULT REMARKS

Detected Indicates organism detected and identified is likely causing signs & symptoms of disease. Co-infection by more than one organism is not uncommon. However it does not distinguish between a viable or replicating organism and the presence of a nonviable organism or nucleic acid, nor do they exclude the potential for coinfection by organisms not contained within the panel.

Not Detected Indicates 27 organisms tested in the panel were not detected and the signs & symptoms may be caused by a condition other than an infection or a pathogen that was not tested for. Also a negative result does not rule out the presence of PCR inhibitors in the specimen or nucleic acid of pneumonia pathogens maybe in concentrations below the level of detection by this assay or organisms are not included in this panel.

Significance of Anti microbial resistance (AMR) Gene Detection

AMR GENE APPLICABLE BACTERIA

Mec A/C and MREJ Staphylococcus aureus
 CTX-M,IMP, KPC, Acinetobacter calcoaceticus-baumannii complex, Enterobacter cloacae complex, Escherichia coli,Klebsiella aerogenes,Klebsiella oxytoca, Klebsiella pneumoniae,Pseudomonas aeruginosa, Proteus spp.,Serratia marcescens
 NDM, VIM

Comments

The pneumonia pathogen panel test is a highly-specialized qualitative assay capable of rapidly detecting DNA/RNA of different kinds of bacteria (18) & viruses(7) and antimicrobial resistance gene for relevant bacteria responsible for causing Pneumonia directly from the respiratory specimens. It has a good sensitivity of 96.2% and specificity of 98.3%. It is FDA approved multiplex film array that works in a closed system by isolating, amplifying and detecting nucleic acid target genes.

Remarks: Please correlate results clinically.



This is a Demo Signature
and the doctor's signature should appear here

In case of any unexpected or alarming results, please contact us immediately for re-confirmation, clarifications, and rectifications, if needed.



There may be an additional PDF attachment in this report which has been redacted for privacy.
Please contact info@hod.care, if you would like to make a booking for this test.