**Bacteria**

**Confirmation of BioFire FilmArray Detections by Different Methods**

**Reference Method: qMol**

**In BAL**

- ACB complex
- S. pneumoniae
- H. influenzae
- S. aureus
- E. coli
- K. oxytoca
- K. pneumoniae
- S. pneumoniae
- P. aeruginosa
- S. zygnema

**In Sputum**

- ACB complex
- A. baumannii
- K. pneumoniae
- S. aureus
- E. coli
- S. pneumoniae
- P. aeruginosa
- S. maltophilia
- S. zygnema

**Confirmation of BioFire FilmArray Detections by Different Methods**

**Reference Method: qRefCx**

**In BAL**

- ACB complex
- S. pneumoniae
- H. influenzae
- S. aureus
- E. coli
- K. oxytoca
- K. pneumoniae
- S. pneumoniae
- P. aeruginosa
- S. zygnema

**In Sputum**

- ACB complex
- A. baumannii
- K. pneumoniae
- S. aureus
- E. coli
- S. pneumoniae
- P. aeruginosa
- S. maltophilia
- S. zygnema

**Nature of Discrepancies**

Discrepancy investigation demonstrated that the majority of discordant results were a consequence of laboratory error or misidentification of the organism. False-positive results were most likely due to a consequence of laboratory error or misidentification of the organism. False-negative results were more often a consequence of low-level infection or organism undetected.

**Bacteria False Negatives**

- Bacterial false negatives are defined as bacteria that are positive in the comparator method but negative in the BioFire Pneumonia Panel.

**AMR genes**

- AMR genes are only reported if a bacterial isolate exhibited above the quantification cutoff.

**Conclusion**

The BioFire Pneumonia Panel is highly specific and sensitive compared to molecular methods for both sample types, the specificity of the panel is 98.5% compared to culture. Discrepancy investigation demonstrated that nearly all false-negative results were a consequence of low-level infection or organism undetected. The BioFire Pneumonia Panel is highly specific and sensitive compared to molecular methods for both sample types, the specificity of the panel is 98.5% compared to culture. Discrepancy investigation demonstrated that nearly all false-negative results were a consequence of low-level infection or organism undetected.

**AMR Gene False Negatives**

**Antimicrobial Resistance Gene False Negatives**

**Conclusion**

The bacterial assays in the BioFire Pneumonia Panel are highly specific and sensitive compared to molecular methods for both sample types, the specificity of the panel is 98.5% compared to culture. Discrepancy investigation demonstrated that nearly all false-negative results were a consequence of low-level infection or organism undetected. The BioFire Pneumonia Panel is highly specific and sensitive compared to molecular methods for both sample types, the specificity of the panel is 98.5% compared to culture. Discrepancy investigation demonstrated that nearly all false-negative results were a consequence of low-level infection or organism undetected.

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