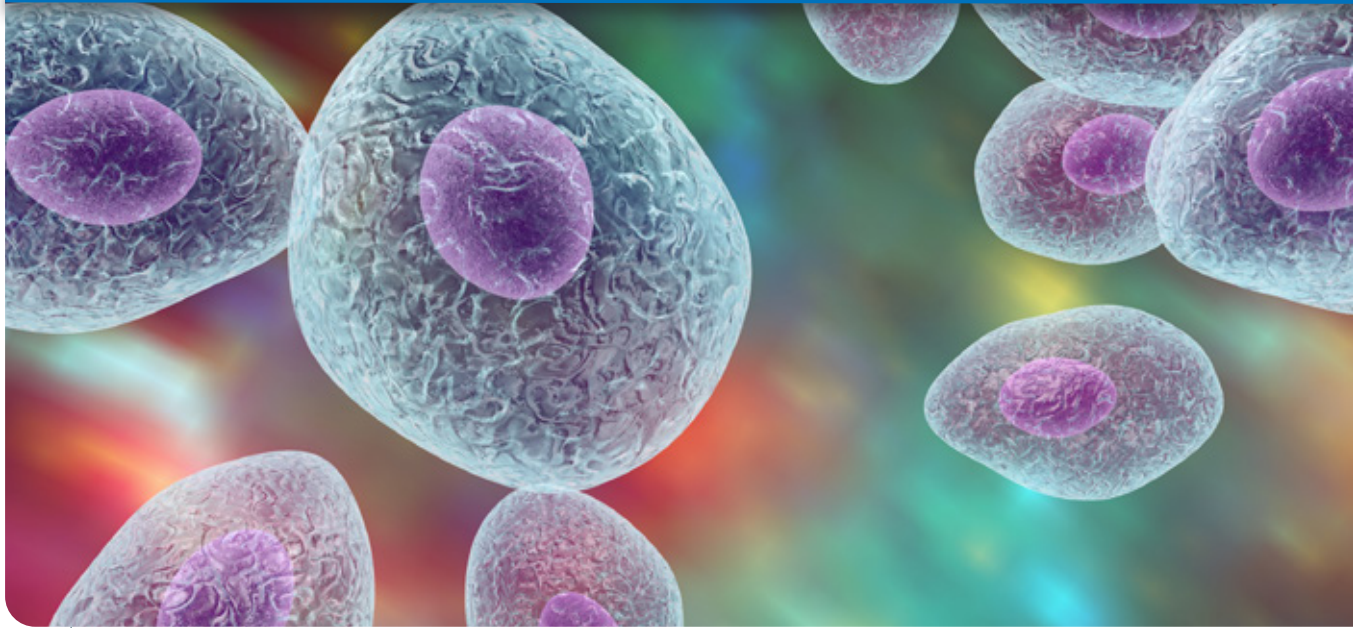


IVD



# Fungiplex<sup>®</sup> Pneumocystis

- IVD Real-Time PCR

# Fungiplex Pneumocystis

Fungiplex Pneumocystis is a quantitative multiplex real-time PCR test for *Pneumocystis jirovecii*, the causative agent of *Pneumocystis* pneumonia (PCP); providing rapid results with high sensitivity and specificity without culture.

## Pneumocystis PCR

*Pneumocystis* pneumonia (PCP) is a life-threatening condition affecting immunocompromised patients. Due to a lack of methods to propagate *P. jirovecii* in vitro, the most common method in the diagnosis of PCP is the microscopic identification of *P. jirovecii* recovered from bronchoalveolar lavage (BAL) samples. However, the sensitivity is not sufficiently reliable for patients with haematological malignancies, or those who are immunocompromised. PCR is recommended for the routine diagnosis of PCP,<sup>1</sup> while quantitation enables clinicians to differentiate between colonisation and infection.

<sup>1</sup>A. Alanio et al J Antimicrob Chemother (2016) 71: 2386–2396 DOI: <https://doi.org/10.1093/jac/dkw156>

**Fungiplex Pneumocystis** includes an endogenous control to allow assessment of sampling efficiency, as well as a separate extraction control to assess extraction and PCR performance. The assay is designed to target DNA extracted from bronchial lavage samples (**bronchoalveolar lavage (BAL)**) and non-directed bronchial lavage (NBL)) and **throat swabs**.

Targets (differentiated)	Performance Characteristics	Thermocyclers (validated)	Time to result
<i>Pneumocystis jirovecii</i> Endogenous control	Sensitivity = 98.75 % Specificity = 99.04 %	√ ABI 7500 √ ABI Quantstudio 5 √ Bio-Rad CFX √ Hain FluoroCycler XT √ Roche Lightcycler 480 II √ Qiagen RotorGene	< 2 h from extraction (1 - 100 samples)

Performance characteristics were obtained from a clinical study where 184 samples were analysed and results compared against EORTC criteria.

## Fungiplex Pneumocystis:

- has been designed in a **user-friendly** format that is compatible with **existing laboratory equipment** and produces results from extracted nucleic acid in **less than 2 hours**.
- offers the potential to aid earlier diagnosis and improve patient outcomes.

## Order Information: Part No. 1877740 Fungiplex Pneumocystis IVD PCR Kit

Real-time PCR Kit for detection of *Pneumocystis jirovecii* from extracted DNA from throat swabs, BAL and NBL fluid. The kit provides all necessary reagents for 100 tests as well as standards to allow for quantification.

Please contact your local representative for availability in your country. Not for sale in the USA. Fungiplex® is a registered trademark of Bruker in the European Union and the USA.



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