

IVD



# Fungiplex<sup>®</sup> Aspergillus

- IVD Real-Time PCR

# Fungiplex Aspergillus

Fungiplex Aspergillus is a multiplex real-time PCR test for the most common pathogens associated with Invasive Aspergillosis; providing rapid results with high sensitivity and specificity without culture.

## PCR in diagnosing Aspergillosis

Invasive Aspergillosis (IA) is a significant cause of morbidity and mortality in immunosuppressed patients, such as those undergoing haematopoietic stem cell transplants, and critically ill patients. With non-specific symptoms, and poor blood culture sensitivity, IA is challenging to diagnose. PCR can aid the diagnosis of IA and is now included as mycological criteria for probable invasive aspergillosis, according to EORTC definitions.<sup>1</sup> Furthermore, the inclusion of PCR in biomarker testing strategies shows excellent diagnostic accuracy;<sup>2</sup> guiding patient management and reducing the use of anti-fungal drugs, without adversely affecting patient outcomes.

<sup>1</sup> J. P. Donnelly et al. Clin. Infect. Dis. (2019) DOI: <https://doi.org/10.1093/cid/ciz1008>

<sup>2</sup> M. Arvanitis et al. Clin. Infect. Dis. (2015) 61 (8): 1263-1272. DOI: <https://doi.org/10.1093/cid/civ555>

The **Fungiplex Aspergillus** assay supports the early identification of *Aspergillus* infection **without blood culture**. **Fungiplex Aspergillus** detects the **main causative pathogens** of IA: *A. fumigatus*, *A. flavus*, *A. niger*, and differentiates *A. terreus*. The assay is validated against DNA extracted from **serum, plasma** and **bronchoalveolar lavage (BAL)** fluid.

Targets (differentiated)	Performance characteristics <sup>a</sup>	Thermocyclers (validated)	Time to result
<i>Aspergillus</i> spp. <sup>b</sup> <i>A. terreus</i>	Sensitivity = 99.3 % Specificity = 98.5 %	√ ABI 7500 √ ABI Quantstudio 5 √ Bio-Rad CFX √ Hain FluoroCycler XT √ Mic qPCR Cycler √ Roche Lightcycler 480 II √ Qiagen RotorGene	< 2 h from extraction (1 - 100 samples)

<sup>a</sup> Preliminary data from simulated samples. LOD (plasmid): 20 ipc (*Aspergillus* spp.)/30 ipc (*A. terreus*),  
LOD (genomic): 5 CFU

<sup>b</sup> Validated against *A. fumigatus*, *A. flavus*, *A. niger*

## Fungiplex Aspergillus:

- 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, reduce spend and improve patient outcomes.

**Order Information: Part-No. 1849974** Fungiplex Aspergillus IVD PCR Kit

Real-time PCR Kit for detection of *Aspergillus* species from extracted DNA from blood and bronchoalveolar lavage fluid. The kit provides all necessary reagents for 100 tests.

Fungiplex is a registered trademark of the Bruker group of companies.

Please contact your local representative for availability in your country.  
Not for sale in the USA.



**As of May 2021, Bruker Daltonik GmbH is now Bruker Daltonics GmbH & Co. KG.**

 **Bruker Daltonics GmbH & Co. KG**

Bremen · Germany  
Phone +49 (0) 421-2205-0

[info.md@bruker.com](mailto:info.md@bruker.com) - [www.bruker.com/microbiology](http://www.bruker.com/microbiology)