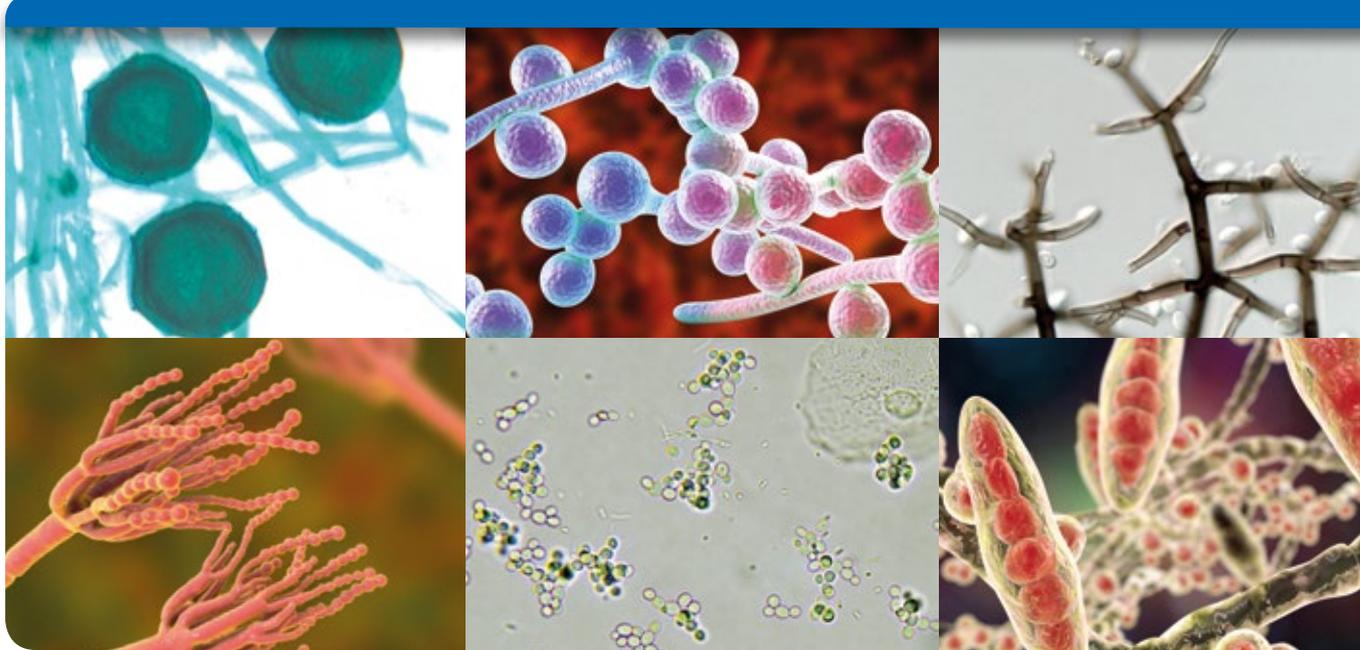


RUO



Fungiplex[®] Universal

- Real-Time PCR

For research use only. Not for use in clinical diagnostic procedures.

Fungiplex Universal

Fungiplex Universal is a real-time PCR test, which covers a broad range of fungal pathogens, providing rapid results with high sensitivity and specificity without isolation of the organism.

Invasive fungal diseases (IFDs) are a significant cause of morbidity and mortality in patients who are immunocompromised or undergoing intensive therapy. The diagnosis of IFDs is challenging as clinical manifestations are non-specific and standard methods of diagnosis are often slow or have low sensitivity. In recent years, the epidemiology of IFDs has changed; *Candida* species remain the most common causes of IFD, but the incidence of *Aspergillus* species and other filamentous fungi, such as *Zygomycetes*, *Fusarium* and *Scedosporium spp.*, has increased⁽¹⁾. Identifying a fungal infection as early as possible is critical for the implementation of appropriate antifungal therapy; early diagnosis can improve treatment outcomes and potentially reduce healthcare costs⁽²⁾.

The Fungiplex Universal assay is designed to rapidly detect the presence of fungal DNA from blood samples, without blood culture. Fungiplex Universal detects a broad range of fungal species including those with low prevalence, and those that are not detected by diagnostic biomarkers, such as from the *Zygomycetes* or *Cryptococcus* genera.

<i>Apophysomyces</i>	<i>Cunninghamella</i>	<i>Mucor</i>	<i>Saccharomyces</i>
<i>Aspergillus</i>	<i>Exophiala</i>	<i>Paecilomyces</i>	<i>Saksenaea</i>
<i>Candida</i>	<i>Fusarium</i>	<i>Penicillium</i>	<i>Scedosporium</i>
<i>Cladosporium</i>	<i>Histoplasma</i>	<i>Pneumocystis</i>	<i>Syncephalastrum</i>
<i>Coccidioides</i>	<i>Lichtheimia</i>	<i>Rhizomucor</i>	<i>Talaromyces</i>
<i>Cryptococcus</i>	<i>Microsporium</i>	<i>Rhizopus</i>	<i>Trichosporon</i>

Fungiplex Universal:

- can be used for research purposes to test blood samples (serum, plasma or whole blood) for the presence of fungal DNA
- has been designed to run under the same conditions as Bruker's Fungiplex range of real-time PCR assays
- is provided in a **user-friendly format** that is compatible with **existing laboratory equipment** and produces results from extracted DNA in **less than 2 hours**.

¹ Ala-Houhala M et al. *Clinical use of fungal PCR from deep tissue samples in the diagnosis of invasive fungal disease: a retrospective observational study*, *Clinical Microbiology and Infection* 2017; 1-5, <https://doi.org/10.1016/j.cmi.2017.08.017>

² Drgona L et al. *Clinical and economic burden of invasive fungal diseases in Europe: a focus on pre-emptive and empirical treatment of Aspergillus and Candida species*, *Eur J Clin Microbiol Infect Dis* 2014; **33**: 7-21.

Order Information: Part-No. 1858554 Fungiplex Universal Real-Time PCR RUO Kit

The kit provides all necessary reagents for 50 tests.

Fungiplex is a registered trademark of Bruker in the European Union and the USA.

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