

IVD



Fungiplex[®] Candida

● IVD Real-Time PCR

Fungiplex Candida

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

PCR for Candida detection

Invasive Candidiasis (IC) is a major cause of morbidity and mortality in healthcare environments. The sensitivity of blood culture for diagnosing invasive candidiasis is reported at 50 % and is coupled with slow turnaround times of 2-3 days. Delayed diagnosis and delays to the initiation of appropriate treatment are associated with high mortality and extended hospital stay. PCR has shown promise for the timely detection of *Candida*, with improved diagnostic accuracy compared to culture and other biomarker tests.¹

¹T. Avni et al. J. Clin. Microbiol. (2011) 49 (2): 665-670. doi: 10.1128/JCM.01602-10

The **Fungiplex Candida** assay enables the early identification of *Candida* infection **without blood culture**. **Fungiplex Candida** detects the **main causative pathogens** of IC: *C. albicans*, *C. parapsilosis*, *C. tropicalis*, *C. dubliniensis*, and differentiates *C. krusei* and *C. glabrata*. The assay is validated against DNA extracted from **whole blood, serum** and **plasma**.

Targets (differentiated)	Performance characteristics ^a	Thermocyclers (validated)	Time to result
<i>Candida spp.</i> ^b <i>C. glabrata</i> <i>C. krusei</i>	Sensitivity = 98.4 % Specificity = 99.8 %	√ ABI 7500 √ ABI Quantstudio 5 √ Bio-Rad CFX √ Hain FluoroCycler XT √ Mic qPCR Cycler √ Qiagen RotorGene √ Roche LightCycler 480 II	< 2 h from extraction (1 - 100 samples)

^a Preliminary data from simulated samples.

LOD (plasmid): 30 ipc (40 ipc for *C. tropicalis* only); LOD (genomic): 1 CFU

^b Validated against *C. albicans*, *C. parapsilosis*, *C. tropicalis* and *C. dubliniensis*

Fungiplex Candida

- 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**.
- has the potential to aid earlier diagnosis, reduce spend and improve patient outcomes.

Order Information: Part-No. 1849973 Fungiplex Candida IVD PCR Kit

Real-time PCR Kit for detection of *Candida* species from extracted DNA from blood. 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**

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