

REALQUALITY Candida plus

Real-Time PCR kit for the detection and the simultaneous identification of different *Candida* species.



Candida albicans

Candida auris

Candida glabrata

Candida krusei

Candida parapsilosis

Candida tropicalis

Candida spp.

The test can be automated on the GENEQUALITY® X120 and GENEQUALITY® Max platforms. The automation includes the extraction protocol, PCR set-up and amplification with sample tracking. The test can be integrated with the laboratory LIMS and minimal operator intervention.

For *in vitro* diagnostic use



ANALITICA
ADVANCED BIOMEDICINE

REALQUALITY Candida Plus

The *Candida* genus includes a variety of yeasts, usually commensals of human mucous membranes. Over 200 species have been recognized, but only 10% are classified as pathogens for humans. Microorganisms of the *Candida* genus can cause superficial infections, which may involve the mucous membranes, the skin, and, in more severe cases, invasive systemic infections characterized by high mortality. In hospital setting, patients admitted to intensive care units, immunocompromised patients, and those with neutropenia are at a high risk of developing invasive candidiasis.

The range of symptoms and clinical signs in cases of candidiasis is broad and diverse and may be non-specific. Providing rapid treatment with the appropriate antifungal is essential.

For *Candida* identification, culture remains the gold standard in hospital laboratories, however, the limitations of this methodology are suboptimal sensitivity and long reporting times. Molecular biology techniques, in particular Real-Time PCR, allow for rapid detection and identification by directly detecting limited amounts of fungal DNA in the clinical sample.

REALQUALITY Candida Plus is a Real-Time PCR kit which uses two different mixes for the detection of different *Candida* species with the simultaneous identification of *Candida albicans*, *C. auris*, *C. glabrata*, *C. krusei*, *C. parapsilosis*, *C. tropicalis* and *Candida spp.*, providing rapid and reliable results without culture.

REAL-TIME PCR MIX 1

Fluorophores	Target
FAM	<i>Candida albicans</i>
HEX	<i>Candida glabrata</i>
Cy5	<i>Candida krusei</i>
ROX	Internal control (BG)

REAL-TIME PCR MIX 2

Fluorophores	Target
FAM	<i>Candida parapsilosis</i>
HEX	<i>Candida tropicalis</i>
Cy5	<i>Candida auris</i>
ROX	<i>Candida spp.</i>

Real-Time
PCR



PRODUCT CHARACTERISTICS:

- **Internal control** (IC) based on amplification of the human β -globin (BG) gene.
- Includes **dUTP/UNG** system to prevent carry over contamination.
- Requires **5 μ L** of extracted DNA.
- **70 minutes** for Real-Time PCR amplification.
- Validated on Real-Time thermal cyclers:
 - CFX96 Real-Time PCR Detection System-IVD (Bio-Rad)
 - AriaDx Real Time PCR System (Agilent Technologies)
 - Mic qPCR Cyler (bio molecular systems)
- Easy result interpretation with **AB Genius Report 3** software.
- Available in automatic format for **GENEQUALITY® X120** and **GENEQUALITY® Max**.

SPECIMENS:

Validated on:

- **cervical-vaginal swab**
- **urethral swab**
- **blood (treated with EDTA)**
- **blood culture**
- **rectal swab**
- **feces**
- **plasma**
- **serum**
- **axillary swab**
- **inguinal swab**

ORDERING INFORMATION:

CODE	PRODUCT	N° TESTS	FORMAT
RQ-174-4M	REALQUALITY Candida Plus	50	Manual
RQ-174-6M		100	
RQ-174-4A		50	For use on the GENEQUALITY® platforms
RQ-174-6A		100	