Molecular diagnostics

REAL-TIME PCR REAGENTS TO DETECT CANDIDA

DSQ ALERT™

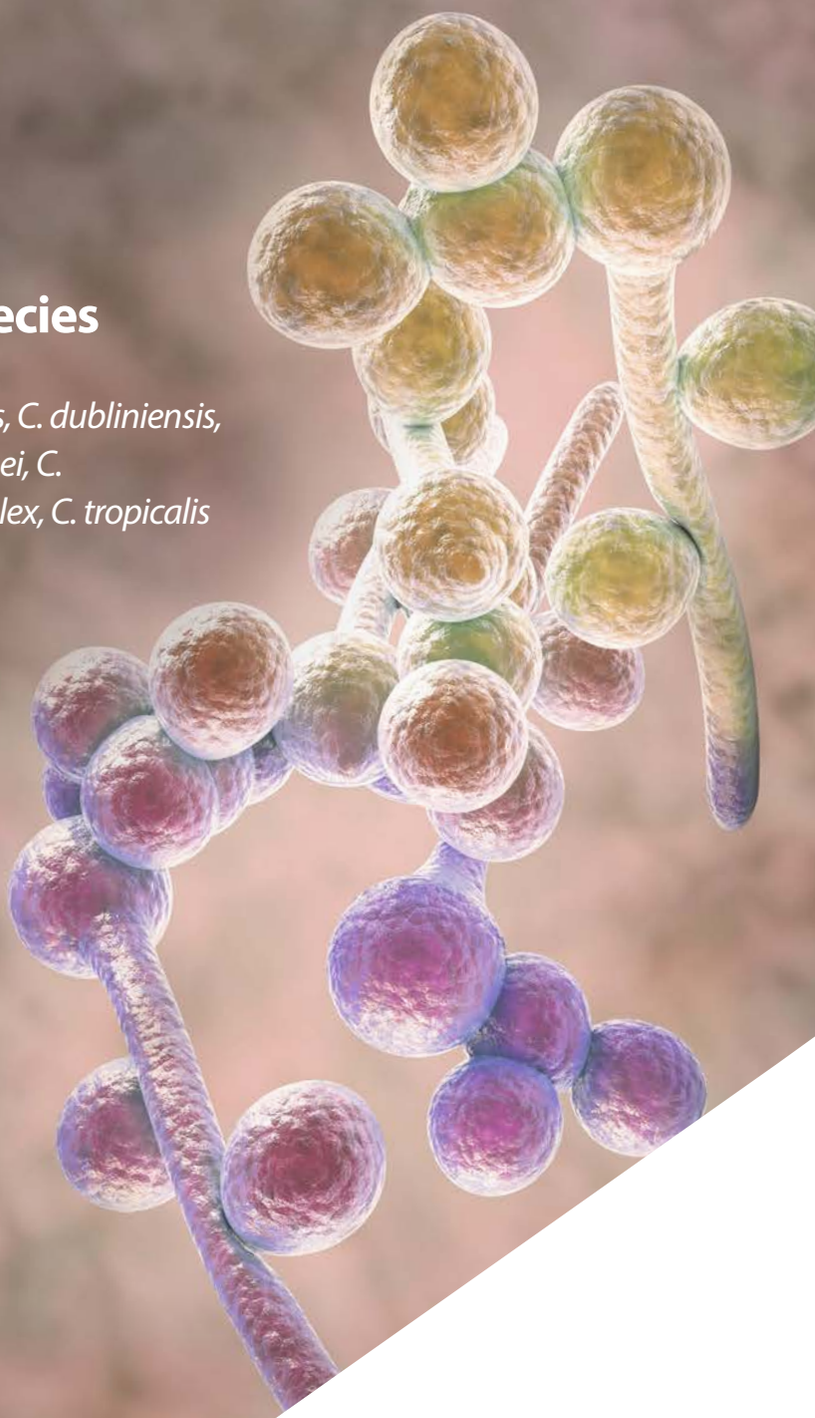
Candida auris

Candida auris with echinocandin resistance

Candida auris with fluconazole resistance

Candida species 7-plex:

C. albicans, C. auris, C. dubliniensis, C. glabrata, C. krusei, C. parapsilosis complex, C. tropicalis



- Up to 95% of all invasive candidiasis infections in the United States are caused by five species of Candida: *C. albicans, C. glabrata, C. krusei, C. parapsilosis,* and *C. tropicalis.*[1]
- CDC considers *C. auris* a serious health threat for three main reasons: *C. auris* is difficult to identify with standard laboratory methods, is often multi-drug resistant, and causes outbreaks in healthcare settings.[2]
- Identify *C. auris* properly for appropriate lab management.

References:

1. *Centers for Disease Control and Prevention. (2021, August 24). Invasive Candidiasis Statistics. Centers for Disease Control and Prevention. Retrieved November 14, 2022, from https://www.cdc.gov/fungal/diseases/candidiasis/invasive/statistics.html*
2. *Centers for Disease Control and Prevention. (2021, July 22). Candida auris. Centers for Disease Control and Prevention. Retrieved November 14, 2022, from https://www.cdc.gov/fungal/candida-auris/index.html*

ELITechGroup
EMPOWERING IVD

ELITe BeGenius®

A fully automated sample-to-result solution

INSTRUMENT

- Onboard RNA and DNA extraction and real-time PCR
- Universal extraction for multiple specimen types
- Up to 24 independently controlled PCRs enabling multiple IVDs or LDTs in a single workflow
- Qualitative and quantitative analyses and results interpretation
- Easy integration with LIS

PRODUCT PRINCIPLES

DSQ Alert™ products are designed with ELITechGroup MDx's proprietary DSQ hydrolysis probe chemistry, the next generation of our innovative real-time PCR chemistry. DSQ probes are labeled with a fluorophore and a duplex stabilizing quencher (DSQ) that serves as a combined fluorescence quencher and DNA double helix stabilizer.

MGB Alert® products contain our Pleiades probe chemistry, featuring the original MGB invented by ELITechGroup MDx. Our Pleiades hybridization probe chemistry allows for both amplification and melt curve analyses.

REAGENT DESCRIPTIONS

Each DSQ Alert ASR[§] is an optimized mix of primers or probes.

Each MGB Alert RUO[‡] reagent is a ready-to-use 20X mix of primer and probe sets, specific to each of the target pathogens, and to a synthetic sequence to serve as an internal control to monitor assay performance. Probes are labeled with FAM or an AquaPhluor® fluorophore, an MGB, and an Eclipse Dark Quencher to enable detection and distinction of each target in the multiplex.

Each MGB Alert RUO reagent is provided at a volume of 120 µL, and designed to be combined with a master mix monoreagent containing the necessary components for PCR. The 20X concentration is relative to the optimal final concentration of the primers and probes in the PCR. Positive control and internal control products and master mixes are not provided, and must be purchased separately.

Reagents from ELITechGroup MDx are compatible with the ELITe BeGenius™, ELITe InGenius®, and other open channel platforms as validated.

ORDERING INFORMATION

PRODUCT #	ELITECHGROUP PRODUCT NAME	REPORTABLE RESULTS
M800729	**DSQ Alert™ Candida auris Primer Mix ASR**	***Candida auris***
M800730	**DSQ Alert™ Candida auris Probe Mix ASR**	***Candida auris***
M400920	**MGB Alert™ C. auris with echinocandin resistance RUO Detection Reagent**	***C. auris* with echinocandin resistance mutations (melt curve analysis)**
M400861	**MGB Alert® Candida auris with fluconazole resistance RUO Detection Reagent**	***C. auris* with fluconazole resistance mutations (melt curve analysis)**
M400869	**MGB Alert® Candida species with C. auris RUO Detection Reagent**	***C. albicans, C. auris, C. dubliniensis, C. glabrata (Nakaseomyces glabrata), C. krusei, C. parapsilosis* complex, and *C. tropicalis* (color and melt discrimination)**

[§]Analyte Specific Reagent. Analytical and performance characteristics are not established.
[‡]For Research Use Only. Not for use in diagnostic procedures.

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