**Candida glabrata, Strain DSY562**

**Catalog No. NR-51685**

For research use only. Not for human use.

**Contributor:**
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**Manufacturer:**
BEI Resources

**Product Description:**
**Classification:** Mitosporic Saccharomycetales, Candida

**Species:** Candida glabrata

**Strain:** DSY562

**Original Source:** Candida glabrata (C. glabrata), strain DSY562 was isolated in 1995 from a patient with acquired immunodeficiency syndrome and oropharyngeal candidiasis.1,2

**Comment:** C. glabrata, strain DSY562 was deposited as a fluconazole-susceptible strain.1,2 A fluconazole-resistant isolate from the same patient collected following two courses of treatment with fluconazole is available as BEI Resources NR-51686. The complete genome of C. glabrata, strain DSY562 has been sequenced (GenBank: MVOE00000000).2

**C. glabrata** are ubiquitous in the environment and commensal inhabitants of the oral cavity, gastrointestinal tract and skin of most healthy humans.3,4 For the immunocompromised, however, C. glabrata is the second most commonly recovered pathogenic yeast in the United States behind C. albicans. Together, the two species are responsible for approximately 70% of all cases of systemic candidiasis with increasing rates of multidrug resistance, particularly to azoles.1,2,3,4 C. glabrata is more closely related phylogenetically to Saccharomyces cerevisiae than C. albicans, and is a member of the Nakaseomyces clade. Unlike other Candida, C. glabrata has a haploid genome, and therefore only reproduces asexually, forming blastoconidia. In addition, C. glabrata has differentiating features such as absence of pseudohyphae, facultative anaerobic growth and rapidly decreasing susceptibility to azole antifungals.4,5,6

**Material Provided:**
Each vial contains approximately 0.5 mL of yeast culture in 20% glycerol.

**Packaging/Storage:**
NR-51685 was packaged aseptically in cryovials and is provided frozen on dry ice. The product should be stored at -70°C or colder. For long term storage the product should be stored -130°C or colder, preferably in the vapor phase of a liquid nitrogen freezer.

**Growth Conditions:**
**Media:**
Yeast Mold broth or equivalent

Yeast Mold agar or equivalent

**Incubation:**
**Temperature:** 37°C

**Atmosphere:** Aerobic

**Propagation:**
1. Keep vial frozen until ready for use; thaw rapidly in a water bath at 25°C to 30°C. Typically, this takes less than 5 minutes.

2. Transfer the entire contents of the vial into Yeast Mold broth.

3. Incubate at 37°C for 2 to 6 days.

**Citation:**
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Candida glabrata, Strain DSY562, NR-51685."

**Biosafety Level:** 2


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