

**Candida glabrata, Strain DSY562**

**Catalog No. NR-51685**

**Product Description:**

*Candida glabrata* (*C. glabrata*; also referred to as *Nakaseomyces glabrata* and *Nakaseomyces glabratus*), strain DSY562 was isolated in 1995 from a patient with acquired immunodeficiency syndrome and oropharyngeal candidiasis. Strain DSY562 was deposited as a fluconazole-susceptible strain. NR-51685 was produced by inoculation of BEI Resources seed lot 70027688 into Yeast Mold agar, which was grown for 3 days at 25°C in an aerobic atmosphere. The agar growth was harvested with 20% glycerol to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

**Lot: 70071384**

**Manufacturing Date: 27SEP2024**

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TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology  Colony morphology  VITEK® 2 (YST card) VITEK® MS (MALDI-TOF)	Report results  Report results  <i>C. glabrata</i> (≥ 89%) <i>C. glabrata</i>	Subglobose-to-ovoid; no pseudohyphae observed (Figure 1) Circular, butyrous and cream (Figure 2) <i>C. glabrata</i> (99%) <i>C. glabrata</i> (99.9%)
<b>Antibiotic Susceptibility Profile<sup>1</sup></b> Etest® antibiotic test strips 2 days at 35°C in an aerobic atmosphere on RPMI 1640 with MOPS and 2% glucose Amphotericin B Fluconazole  Voriconazole	Susceptible Susceptible  Susceptible	Susceptible (0.5 to 0.75 µg/mL) Susceptible-dose dependent (24 to 32 µg/mL) Susceptible (0.38 to 0.5 µg/mL)
<b>Genotypic Analysis</b> Sequencing of partial 18S ribosomal RNA (rRNA) gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 26S rRNA (~ 840 base pairs) Sequencing of 28S rRNA gene (~ 600 base pairs)	≥ 99% sequence identity to <i>C. glabrata</i> , strain DSY562 (GenBank: MVOE01000012.1) ≥ 99% sequence identity to <i>C. glabrata</i> , strain DSY562 (GenBank: MVOE01000012.1)	100% sequence identity to <i>C. glabrata</i> , strain DSY562 (GenBank: MVOE01000012.1) <sup>2</sup> 100% sequence identity to <i>C. glabrata</i> , strain DSY562 (GenBank: MVOE01000012.1) <sup>2</sup>
<b>Purity</b> Nutrient broth with 0.1% Yeast Extract at 25°C 3 days in an aerobic atmosphere Nutrient broth with 0.1% Yeast Extract at 37°C 3 days in an aerobic atmosphere	No bacterial growth  No bacterial growth	No bacterial growth  No bacterial growth
<b>Viability (post-freeze)</b>	Growth	Growth

<sup>1</sup>Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: Song, Y. B., et al. "Antifungal Susceptibility Testing with Etest for *Candida* Species Isolated from Patients with Oral Candidiasis." *Ann. Dermatol.* 27 (2015): 715-720. PubMed: 26719641.

<sup>2</sup>Also consistent with *C. albicans*

Figure 1: Cellular Morphology

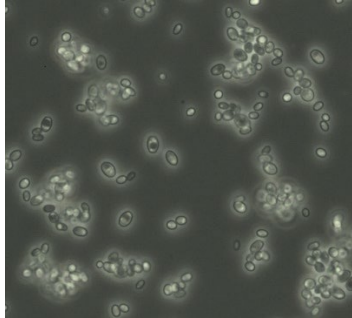


Figure 2: Colony Morphology



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