

Candida glabrata, Strain DSY562

Catalog No. NR-51685

Product Description:

Candida glabrata (*C. glabrata*), 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: 70054810

Manufacturing Date: 12AUG2022

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology 4 days at 25°C in an aerobic atmosphere on Yeast Mold agar Colony morphology VITEK® 2 (YST card)	Report results Report results <i>C. glabrata</i> (≥ 89%)	Subglobose-to-ovoid; in singles and small clumps; no pseudohyphae observed (Figure 1) Butyrous and cream (Figure 2) <i>C. glabrata</i> (98%)
Antibiotic Susceptibility Profile¹ 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 ³ Susceptible	Inconclusive ² Susceptible (≤ 6 µg/mL) Susceptible (≤ 0.125 µg/mL)
Genotypic Analysis 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) ⁴ 100% sequence identity to <i>C. glabrata</i> , strain DSY562 (GenBank: MVOE01000012.1)
Purity 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
Viability (post-freeze)	Growth	Growth

¹Minimum 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.

²Repeated antibiotic susceptibility testing determined that for strain DSY562, the amphotericin B MICs are 0.5 µg/mL (interpreted as susceptible) and 1.5 µg/mL and 2 µg/mL (interpreted as resistant).

³Antibiotic susceptibility testing of BEI Resources seed lot 70027688 was found to be susceptible-dose dependent to fluconazole. Lot 70054810 showed MICs of ≤ 6 µg/mL (interpreted as susceptible) for fluconazole during QC testing. The specification was updated to sensitive to more accurately reflect the interpretation guideline.

⁴Also consistent with *C. albicans*

Figure 1: Cellular Morphology

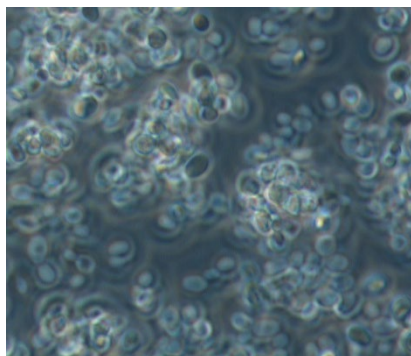
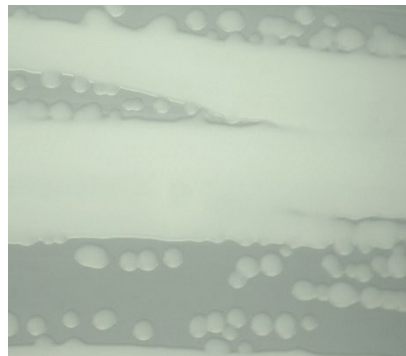


Figure 2: Colony Morphology



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28 JUL 2023

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