

***Candida glabrata*, Strain DSY565**

Catalog No. NR-51686

Product Description:

Candida glabrata (*C. glabrata*), strain DSY565 was isolated in 1995 from a patient with acquired immunodeficiency syndrome and oropharyngeal candidiasis following two courses of treatment with fluconazole. NR-51685 was produced by inoculation of the deposited material onto 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.

Lot: 70027689

Manufacturing Date: 02AUG2019

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology ¹ Colony morphology ¹ Biochemical tests VITEK® 2 (YST card)	Report results Report results <i>C. glabrata</i> (≥ 89%)	Globose to subglobose; in singles and in clumps; no pseudohyphae observed Butyrous, smooth and cream <i>C. glabrata</i> (98%)
Antibiotic Susceptibility Profile Etest® antibiotic test strips ^{2,3} Amphotericin B Fluconazole Voriconazole	Report results Report results Report results	Susceptible (1.0 µg/mL) ⁴ Resistant (> 256 µg/mL) Resistant (8 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 DSY565 (GenBank: MVOF01000013.1) ≥ 99% sequence identity to <i>C. glabrata</i> , strain DSY565 (GenBank: MVOE01000012.1)	100% sequence identity to <i>C. glabrata</i> , strain DSY565 (GenBank: MVOF01000013.1) ⁵ 100% sequence identity to <i>C. glabrata</i> , strain DSY565 (GenBank: MVOF01000013.1) ⁵
Purity⁶ Nutrient broth with 0.1% Yeast Extract at 25°C Nutrient broth with 0.1% Yeast Extract at 37°C	No bacterial growth No bacterial growth	No bacterial growth No bacterial growth
Viability (post-freeze)⁷	Growth	Growth

¹4 days at 25°C in an aerobic atmosphere with 5% CO₂ on Yeast Mold agar

²2 days at 37°C in an aerobic atmosphere on RPMI 1640 agar containing MOPS buffer and 2% glucose (Remel™ R04067)

³Minimum 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.

⁴Two MICs were observed for amphotericin B (0.75 µg per mL and 1.0 µg per mL) under identical test conditions. The highest MIC is being reported as the test result.

⁵Also consistent with *C. albicans*

⁶Clarity of broth was determined by visual inspection after 3 days in an aerobic atmosphere.

⁷3 days at 25°C in an aerobic atmosphere on Yeast Mold agar

/Heather Couch/
 Heather Couch

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Program Manager or designee, ATCC Federal Solutions

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