

Candida auris, Strain AKU-2017-385
Catalog No. NR-52713
Product Description:

Candida auris (*C. auris*), strain AKU-2017-385 was isolated in 2017 from the bloodstream of a human with nosocomial fungemia in Karachi, Pakistan. Strain AKU-2017-385 was deposited as susceptible to anidulafungin and resistant to amphotericin and fluconazole. NR-52713 was produced by inoculation of BEI Resources seed lot 70038124 into Yeast Mold medium, which was grown for 4 days at 25°C in an aerobic atmosphere. The agar growth was harvested with 20% glycerol to produce this lot.

Lot: 70055053
Manufacturing Date: 15AUG2022

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. auris</i> (≥ 89%)	Globose-to-subglobose; in singles and in pairs; no pseudohyphae observed (Figure 1) Butyrous and cream (Figure 2) <i>C. auris</i> (99%)
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 Anidulafungin Fluconazole Voriconazole	Resistant Susceptible Resistant Report results	Resistant (3 to 4 µg/mL) Susceptible (0.19 µg/mL) Resistant (> 256 µg/mL) Inconclusive²
Genotypic Analysis Sequencing of partial 18S ribosomal RNA (rRNA) gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 26S rRNA (~ 360 base pairs) Sequencing of 28S rRNA gene (~ 540 base pairs)	≥ 99% sequence identity to <i>C. auris</i> , strain B8441 (GenBank: PEKT02000002.1) ≥ 99% sequence identity to <i>C. auris</i> , strain B8441 (GenBank: PEKT02000002.1)	100% sequence identity to <i>C. auris</i> , strain B8441 (GenBank: PEKT02000002.1) 100% sequence identity to <i>C. auris</i> , strain B8441 (GenBank: PEKT02000002.1)
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) 4 days at 25°C in an aerobic atmosphere on Yeast Mold agar	Growth	Growth

¹Minimum Inhibitory Concentration (MIC). Currently, there are no established *C. auris*-specific MIC interpretation guidelines; therefore, breakpoints are defined based on those established for closely related *Candida* species. For more information, refer to Forsberg, K., et al. "Candida auris: The Recent Emergence of a Multidrug-Resistant Fungal Pathogen." *Med. Mycol.* 57 (2019): 1-12. PubMed: 30085270.

²Repeated antibiotic susceptibility testing determined that for strain AKU-2017-385, the voriconazole MICs are 0.38 µg/mL (interpreted as susceptible) and 5 µg/mL (interpreted as resistant).

Figure 1: Cellular Morphology

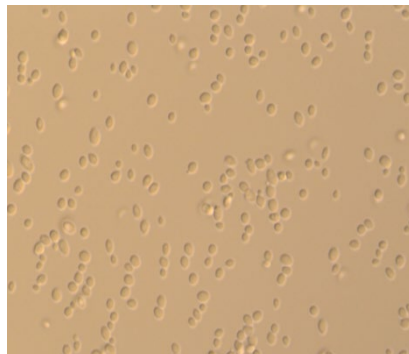


Figure 2: Colony Morphology



/Sonia Bjorum Brower/

Sonia Bjorum Brower

Technical Manager or designee, ATCC Federal Solutions

03 JUL 2023

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

