

Candida auris, Strain AKU-2018-257

Catalog No. NR-52714

Product Description:

Candida auris (*C. auris*), strain AKU-2018-257 was isolated in 2018 from the bloodstream of a human with nosocomial fungemia in Karachi, Pakistan. Strain AKU-2018-257 was deposited as resistant to fluconazole and susceptible to amphotericin and anidulafungin. NR-52714 was produced by inoculation of BEI Resources seed lot 70038126 onto Emmons' Modified Sabouraud Dextrose 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: 70060140

Manufacturing Date: 28APR2023

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology VITEK® 2 (YST card) VITEK® MS (MALDI-TOF)	Report results Report results <i>C. auris</i> (≥ 89%) <i>C. auris</i>	Globose-to-subglobose; no pseudohyphae observed (Figure 1) Circular, butyrous and cream (Figure 2) <i>C. auris</i> (99%) <i>C. auris</i> (99.9%)
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 (1.5 µg/mL) Susceptible (1.5 to 2 µg/mL) Resistant (256 µg/mL) 0.38 to 2 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 (~ 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)	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.

Figure 1: Cellular Morphology

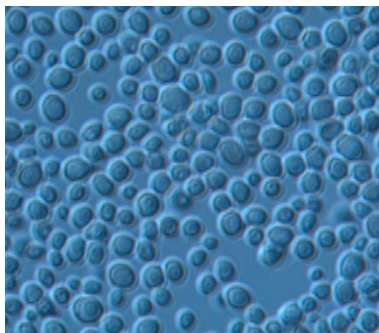
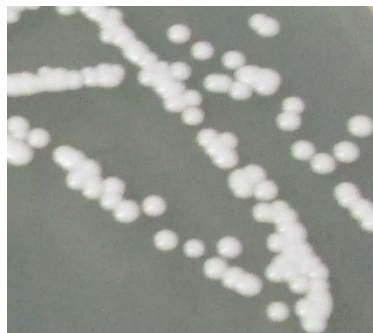


Figure 2: Colony Morphology



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