

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 lot 70038125 was produced by inoculation of the deposited material 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.

Lot: 70038125

Manufacturing Date: 17AUG2020

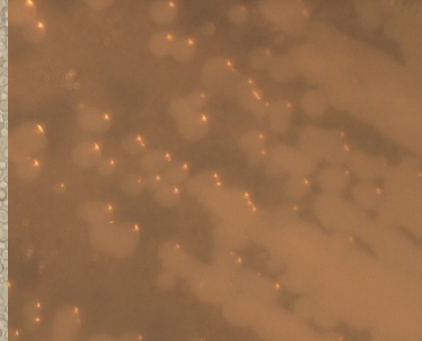
TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology 3 days at 25°C in an aerobic atmosphere on Emmons' Modified Sabouraud Dextrose agar Colony morphology Biochemical tests VITEK® 2 (YST card)	Report results Report results <i>C. auris</i> (≥ 89%)	Globose-to-subglobose; budding observed; no pseudohyphae observed (Figure 1a) Butyrous and off-white (Figure 1b) <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	Report results Susceptible Resistant Report results	Resistant (2 to 3 µg/mL) Susceptible (0.19 to 0.38 µg/mL) Resistant (≥ 256 µg/mL) 0.5 to 0.75 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 (~ 530 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) 3 days at 25°C in an aerobic atmosphere on Emmons' Modified Sabouraud Dextrose 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.

Figure 1a: Cellular Morphology



Figure 1b: Colony Morphology



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31 OCT 2020

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