

Candida auris, Strain AKU-2019-34

Catalog No. NR-52717

Product Description:

Candida auris (*C. auris*), strain AKU-2019-34 was isolated in 2019 from urine of a human with a urinary tract infection in Karachi, Pakistan. Strain AKU-2019-34 was deposited as resistant to fluconazole and susceptible to anidulafungin and amphotericin. NR-52717 lot 70038717 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: 70038717

Manufacturing Date: 14SEP2020

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; no pseudohyphae observed Butyrous and off-white <i>C. auris</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 Anidulafungin Fluconazole Voriconazole	Susceptible Susceptible Resistant Report results	Resistant (16 µg/mL) ² Susceptible (1 µg/mL) Resistant (> 256 µg/mL) 6 to 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 (~ 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) 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.

²*C. auris*, strain AKU-2019-34 was deposited as susceptible to amphotericin B but showed a MIC of 16 µg/mL (interpreted as resistant) for amphotericin B during QC testing. Testing was performed in duplicate.

Figure 1a: Cellular Morphology

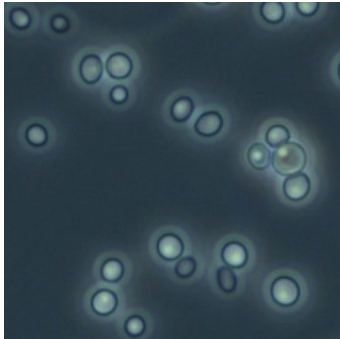
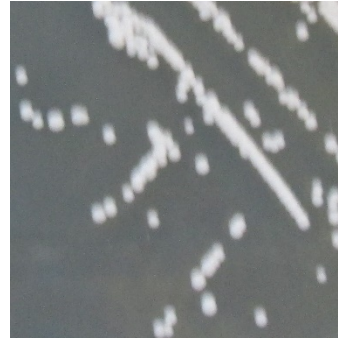


Figure 1b: Colony Morphology



/Heather Couch/

Heather Couch

Program Manager or designee, ATCC Federal Solutions

18 DEC 2020

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