

Candida auris, Strain AKU-2019-111

Catalog No. NR-52715

Product Description:

Candida auris (*C. auris*), strain AKU-2019-111 was isolated in 2019 from the bloodstream of a human with nosocomial fungemia in Karachi, Pakistan. Strain AKU-2019-111 was deposited as resistant to fluconazole and susceptible to amphotericin and anidulafungin. NR-52715 was produced by inoculation of BEI Resources seed lot 70038128 onto Emmons' Modified Sabouraud Dextrose agar kolles, which were 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: 70060501

Manufacturing Date: 05MAY2023

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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; in singles and small clumps; no pseudohyphae observed (Figure 1) Circular, butyrous and cream (Figure 2) <i>C. auris</i> (97%) <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	Susceptible Susceptible Susceptible Report results	Susceptible (1 µg/mL) Susceptible (6 µg/mL) Susceptible (4 to 8 µg/mL) ² 0.16 to 0.023 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); 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.

²*C. auris*, strain AKU-2019-111 was deposited as resistant to fluconazole, but showed a MIC of ≤ 4 µg/mL (interpreted as susceptible) for lot 70038127 during QC testing. Testing was performed in duplicate.

Figure 1: Cellular Morphology

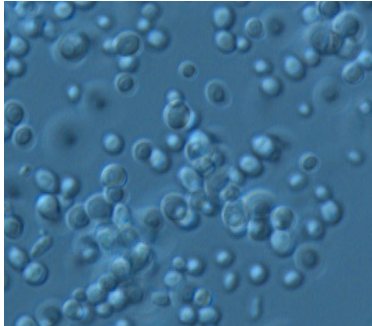
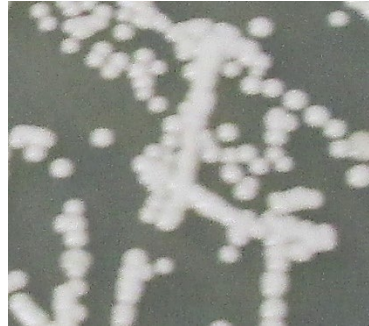


Figure 2: Colony Morphology



/Sonia Bjorum Brower/
Sonia Bjorum Brower

Technical Manager or designee, ATCC Federal Solutions

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