

Certificate of Analysis for NR-52716

Candida auris, Strain AKU-2019-43

Catalog No. NR-52716

Product Description:

Candida auris (C. auris), strain AKU-2019-43 was isolated in 2019 from the ear of a human with otitis externa in Karachi, Pakistan. Strain AKU-2019-43 was deposited as susceptible to fluconazole, amphotericin and anidulafungin. NR-52716 was produced by inoculation of BEI Resources seed lot 70038718 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: 70060141 Manufacturing Date: 21APR2023

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Report results	Globose with some ovoid cells; no pseudohyphae observed (Figure 1)
Colony morphology	Report results	Circular and butyrous (Figure 2)
VITEK® 2 (YST card)	C. auris (≥ 89%)	C. auris (98%)
VITEK® MS (MALDI-TOF)	C. auris	C. auris (99.9%)
Antibiotic Susceptibility Profile ¹		
Etest® antibiotic test strips		
2 days at 35°C in an aerobic atmosphere on RPMI 1640 medium with MOPS and 2% glucose		
Amphotericin B	Susceptible	Susceptible (1 µg/mL)
Anidulafungin	Susceptible	Susceptible (0.75 µg/mL)
Fluconazole	Resistant	Resistant (256 μg/mL) ²
Voriconazole	Report results	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 (~ 540 base pairs)	≥ 99% sequence identity to C. auris, strain B8441 (GenBank: PEKT02000002.1) ≥ 99% sequence identity to C. auris, strain B8441 (GenBank: PEKT02000002.1)	100% sequence identity to C. auris, strain B8441 (GenBank: PEKT02000002.1) 100% sequence identity to C. auris, strain B8441 (GenBank: PEKT02000002.1)
Purity		
Nutrient broth with 0.1% Yeast Extract at 25°C 3 days in an aerobic atmosphere	No bacterial growth	No bacterial growth
Nutrient broth with 0.1% Yeast Extract at 37°C 3 days in an aerobic atmosphere	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." <u>Med. Mycol.</u> 57 (2019): 1-12. PubMed: 30085270.

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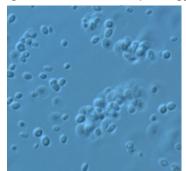
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²C. auris, strain AKU-2019-43 was deposited as susceptible to fluconazole, but showed a MIC of > 256 μg/mL (interpreted as resistant) for lot 70060141 during QC testing.



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Figure 1: Cellular Morphology





/Sonia Bjorum Brower/ Sonia Bjorum Brower

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Technical Manager or designee, ATCC Federal Solutions

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