

***Aerococcus mictus*, Strain UMB3440**

Catalog No. NR-58629

Product Description:

Aerococcus mictus (*A. mictus*), strain UMB3440 was isolated in 2016 from a urine sample via transurethral catheter of a patient with urge urinary incontinence. *Aerococcus mictus*, strain UMB3440 was deposited to BEI Resources as sensitive to vancomycin and the type strain for species *Aerococcus mictus*. NR-58629 was produced by inoculation of the deposited material into NYC III broth and grown for 2 days at 37°C in an aerobic atmosphere with 5% CO₂. Broth inoculum was added to Tryptic Soy with 5% defibrinated sheep blood agar kolles, which were grown for 1 day at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

Note: The species on the label is incorrect. NR-58629 was deposited to BEI Resources as the proposed species *Aerococcus mingo* and was updated by the depositor to *Aerococcus mictus* due to nomenclature rules.

Lot: 70057557

Manufacturing Date: 19JAN2023

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology 2 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood Hemolysis Motility (wet mount) Catalase VITEK® MS (MALDI-TOF)	Gram-positive cocci Report results α-hemolytic Report results Negative <i>A. mictus</i>	Gram-positive cocci Circular, convex, entire, smooth and gray (Figure 1) α-hemolytic Non-motile Negative <i>A. urinae</i> (99.9%) ¹
Antibiotic Susceptibility Profile² Etest® antibiotic test strips 1 day at 35°C in an aerobic atmosphere with 5% CO ₂ on Mueller Hinton agar Vancomycin	Sensitive	1.0 µg/mL
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	≥ 99% sequence identity to <i>Aerococcus</i> sp., strain UMB3440 (GenBank: CP132985.1)	99.5% sequence identity to <i>Aerococcus</i> sp., strain UMB3440 (GenBank: CP132985.1) ³
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze) 2 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	Growth	Growth

¹VITEK® MS (MALDI-TOF) was used to confirm to genus. *A. mictus*, strain UMB3440 was originally classified as *Aerococcus urinae* and updated by the depositor to proposed species *A. mictus*, which is not in the VITEK® MS (MALDI-TOF) database.

²Minimum Inhibitory Concentration (MIC). *A. mictus*, strain UMB3440 was deposited as sensitive to vancomycin. No antibiotic resistance data for this antibiotic for *A. mictus* is currently available.

³Also consistent with other *Aerococcus* species

Figure 1: Colony Morphology



/Sonia Bjorum Brower/

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Technical Manager or designee, ATCC Federal Solutions

15 AUG 2023

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