

# **Product Information Sheet for NR-58629**

# Aerococcus mictus, Strain UMB3440

# Catalog No. NR-58629

# For research use only. Not for use in humans.

### Contributor:

Alan J. Wolfe, Professor, Department of Microbiology and Immunology, Loyola University Chicago, Maywood, Illinois, USA

### Manufacturer:

**BEI Resources** 

# **Product Description:**

Bacteria Classification: Aerococcaceae, Aerococcus

Species: Aerococcus mictus1

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

Strain: UMB3440

Original Source: Aerococcus mictus (A. mictus), strain UMB3440 was isolated in 2016 from a urine sample via transurethral catheter of a patient with urge urinary incontinence. 1,2,3

Aerococcus mictus, strain UMB3440 was Comments: deposited to BEI Resources as sensitive to vancomycin and the type strain for Aerococcus mictus.1 The complete genome for A. mictus, strain UMB3440 has been sequenced (GenBank: CP132985).

Aerococcus species are Gram-positive, microaerophilic, nonmotile bacteria that are associated with urinary tract infections, bacteremia and endocarditis. This genus is often misidentified as streptococci or staphylococci, leading to decreased diagnosis of Aerococcus infections. With the introduction of improved methods for species determination, aerococci are becoming increasingly recognized as human pathogens, particularly in the elderly.<sup>4,5,6</sup>

## **Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in NYC III broth supplemented with 10% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

## Packaging/Storage:

NR-58629 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

### **Growth Conditions:**

Media:

NYC III broth or equivalent

Tryptic Soy agar with 5% defibrinated sheep blood, Columbia CNA agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Aerobic with 5% CO<sub>2</sub>

Propagation:

- Keep vial frozen until ready for use, then thaw. 1.
- 2. Transfer the entire thawed aliquot into a single tube of broth.
- 3. Use several drops of the suspension to inoculate an agar slant and/or plate.
- 4. Incubate the tube, slant and/or plate at 37°C for 1 to 2 days.

### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Aerococcus mictus, Strain UMB3440, NR-58629."

# Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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#### References:

- 1. Wolfe, A. J., Personal Communication.
- Choi, B. I., et al. "Taxonomic Considerations on Aerococcus urinae with Proposal of Subdivision into Aerococcus urinae, Aerococcus tenax sp. nov., Aerococcus mictus sp. nov., and Aerococcus loyolae sp. nov." <u>Int. J. Syst. Evol. Microbiol.</u> 73 (2023). PubMed: 37755156.
- Hilt, E. E., "Aerococcus urinae Isolated from Women with Lower Urinary Tract Symptoms: In Vitro Aggregation and Genome Analysis." J. Bacteriol. 202 (2020): e00170-20. PubMed: 32284319.
- Rasmussen, M. "Aerococci and Aerococcal Infections." <u>J. Infect.</u> 66 (2013): 467-474. PubMed: 23277106.
- Rasmussen, M. "Aerococcus: An Increasingly Acknowledged Human Pathogen." <u>Clin. Microbiol. Infect.</u> 22 (2016): 22-27. PubMed: 26454061.
- Sahu, K. K., et al. "Aerococcus-Related Infections and Their Significance: A 9-Year Retrospective Study." <u>J. Microsc. Ultrastruct.</u> 9 (2020): 18-25. PubMed: 33850708.

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