

Product Information Sheet for NR-56693

Streptococcus pneumoniae, Strain 978059

Catalog No. NR-56693

For research use only. Not for use in humans.

Contributor and Manufacturer:

ATCC®

Product Description:

Bacteria Classification: Streptococcaceae, Streptococcus

Species: Streptococcus pneumoniae

Strain: 978059

<u>Original Source</u>: Streptococcus pneumoniae (S. pneumoniae), strain 978059 was isolated in 2013 from a bronchoalveolar lavage sample of a 22-year-old male in Italy.¹

<u>Comments</u>: S. pneumoniae, strain 978059 was deposited as part of the Global Priority Superbugs Collection. NR-56693 was deposited as resistant to ampicillin, ceftriaxone, erythromycin, penicillin, tetracycline and trimethoprim/sulfamethoxazole.

S. pneumoniae is a Gram-positive, α-hemolytic diplococcal aerotolerant anaerobe that is a major cause of pneumonia, bacterial meningitis and otitis media. S. pneumoniae has a polysaccharide capsule that acts as a virulence factor for the organism. There are over ninety different capsular types of S. pneumoniae which differ in virulence, prevalence, and extent of drug resistance.^{2,3}

Material Provided:

Each vial contains approximately 0.3 mL of bacterial culture in Brain Heart Infusion broth supplemented with 10% glycerol.

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

Packaging/Storage:

NR-56693 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:

<u>Media</u>:

Brain Heart Infusion broth or Tryptic Soy broth or equivalent Brain Heart Infusion agar or Tryptic Soy agar or Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Aerobic with 5% CO₂

Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- 2. Transfer the entire thawed aliquot into a single tube of broth.
- 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 day.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Streptococcus pneumoniae*, Strain 978059, NR-56693."

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. McGann, P., Personal Communication.
- Jedrzejas, M. J. "Pneumococcal Virulence Factors: Structure and Function." <u>Microbiol. Mol. Biol. Rev.</u> 65 (2001): 187-207. PubMed: 11381099.
- Habib, M., B. D. Porter and C. Satzke. "Capsular Serotyping of Streptococcus pneumoniae Using the Quellung Reaction." J. Vis. Exp. (2014): e51208. PubMed: 24637727.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org
Tel: 800-359-7370

Tel: 800-359-7370 Fax: 703-365-2898



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