

# **Product Information Sheet for NR-19118**

Streptococcus pneumoniae, Strain GA17457

# Catalog No. NR-19118

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

### Contributor:

Scott T. Chancey, Ph.D., Senior Research Associate, Division of Infectious Diseases, Department of Medicine, Emory University, Atlanta, Georgia, USA

### Manufacturer:

**BEI Resources** 

## **Product Description:**

Bacteria Classification: Streptococcaceae, Streptococcus

Species: Streptococcus pneumoniae

Strain: GA17457 (also referred to as SPAR46)1

Serotype: 19A1

<u>Original Source</u>: Streptococcus pneumoniae (S. pneumoniae), strain GA17457 was isolated in 2000 from the blood of a patient with pneumonia in Georgia, USA.<sup>1</sup>

<u>Comments</u>: Serotyping of *S. pneumoniae*, strain GA17457 was determined by the Quellung reaction and confirmed by genomic analysis.<sup>1</sup> The complete genome of *S. pneumoniae*, strain GA17457 has been sequenced (GenBank: <u>All\_S00000000</u>).

 $S.\ pneumoniae$  is a Gram-positive,  $\alpha$ -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 0.5 mL of bacterial culture in Tryptic Soy 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-19118 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:

Tryptic Soy broth or Todd-Hewitt broth or equivalent

Tryptic Soy agar or Tryptic Soy agar with 5% defibrinated sheep blood or Todd-Hewitt agar or equivalent

Incubation:

Temperature: 37°C

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

### Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- 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 day.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Streptococcus pneumoniae, Strain GA17457, NR-19118."

## 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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

### **Disclaimers:**

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

### **Use Restrictions:**

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale. This material may be subject to third party patent rights.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org

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

NR-19118\_26JAN2021



# **Product Information Sheet for NR-19118**

### References:

- 1. Chancey, S. T., Personal Communication.
- Mitchell, A. M. and T. J. Mitchell. "Streptococcus pneumoniae: Virulence Factors and Variation." <u>Clin. Microbiol. Infect.</u> 16 (2010): 411-418. PubMed: 20132250.
- 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. 24 (2014): e51208. PubMed: 24637727.

ATCC<sup>®</sup> is a trademark of the American Type Culture Collection.

E-mail: contact@beiresources.org

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

**BEI Resources**