

# Product Information Sheet for NR-19171

***Streptococcus pneumoniae*, Strain GA47522**

**Catalog No. NR-19171**

**For research use only. Not for human use.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Streptococcaceae*, *Streptococcus*

Species: *Streptococcus pneumoniae*

Strain: GA47522 (also referred to as SPAR99)

Serotype: 15C<sup>1</sup>

Original Source: *Streptococcus pneumoniae* (*S. pneumoniae*), strain GA47522 was isolated in 2006 from the blood of a patient with bacteremia in Georgia, USA.<sup>1</sup>

Comments: Serotyping of *S. pneumoniae*, strain GA47522 was determined by the Quellung reaction and confirmed by genomic analysis.<sup>1</sup> The complete genome of *S. pneumoniae*, strain GA47522 has been sequenced (GenBank: [A000000000](http://A000000000)).

*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.<sup>2,3</sup>

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in Todd-Hewitt broth supplemented with 10% glycerol.

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

**Packaging/Storage:**

NR-19171 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 Todd-Hewitt agar or Tryptic Soy agar with 5% sheep blood 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.
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 24 hours.

Note: *Streptococcus* species are generally fast growers. To avoid overgrowth of the culture, incubation without shaking is recommended for growth in broth.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Streptococcus pneumoniae*, Strain GA47522, NR-19171."

**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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

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### References:

1. Chancey, S. T., Personal Communication.
2. Mitchell, A. M. and T. J. Mitchell. "*Streptococcus pneumoniae*: Virulence Factors and Variation." Clin. Microbiol. Infect. 16 (2010): 411-418. PubMed: 20132250.
3. Jedrzejewski, M. J. "Pneumococcal Virulence Factors: Structure and Function." Microbiol. Mol. Biol. Rev. 65 (2001): 187-207. PubMed: 11381099.
4. 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.

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