

Product Information Sheet for NR-19160

Streptococcus GA47179 pneumoniae,

Strain <u>|</u>

Catalog No. NR-19160

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Streptococcaceae, Streptococcus

Species: Streptococcus pneumoniae

Strain: GA47179 (also referred to as SPAR88)

Serotype: 15A1

<u>Original Source</u>: Streptococcus pneumoniae (S. pneumoniae), strain GA47179 was isolated in 2006 from the blood of a patient with otitis in Georgia, USA.¹

<u>Comments</u>: Serotyping of *S. pneumoniae*, strain GA47179 was determined by the Quellung reaction and confirmed by genomic analysis.¹ The complete genome of *S. pneumoniae*, strain GA47179 has been sequenced (GenBank: AIKX00000000).

 $S.\ pneumoniae$ 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 0.5 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-19160 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% CO₂

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.

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 GA47179, NR-19160."

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). Current Edition. Washington, DC: U.S. Government Printing Office.

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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." <u>J. Vis. Exp.</u> 24 (2014): e51208. PubMed: 24637727.

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