

Streptococcus pneumoniae, Strain SPEC6D

Catalog No. NR-20806

For research use only. Not for human use.

Contributor:

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Product Description:

Bacteria Classification: Streptococcaceae, Streptococcus

Species: Streptococcus pneumoniae

Strain: SPEC6D

Source: Streptococcus pneumoniae (S. pneumoniae), strain SPEC6D was derived from human wild-type S. pneumoniae, strain MNZ920 by natural selection using increasing concentrations of spectinomycin.¹

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 1.8 mL of bacterial culture in Todd-Hewitt broth containing 0.5% (w/v) yeast extract and 15% glycerol.

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

Packaging/Storage:

NR-20806 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -80°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.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Streptococcus pneumoniae, Strain SPEC6D, NR-20806."

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, 2007; see

www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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References:

1. Robert L. Burton, personal communication
2. Burton, R. L. and M. H. Nahm. "Development and Validation of a Fourfold Multiplexed Opsonization Assay (MOPA4) for Pneumococcal Antibodies." Clin. Vaccine Immunol. 13 (2006): 1004-1009. PubMed: 16960111.
3. [Todar's Online Textbook of Bacteriology](http://www.todarsonline.com).

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