

***Streptococcus pneumoniae*, Strain TREP19A**

Catalog No. NR-51857

Product Description:

S. pneumoniae (*S. pneumoniae*), strain TREP19A was derived from wild-type *S. pneumoniae*, strain DS3519-97 (serotype 19A) by natural selection using increasing concentrations of trimethoprim. NR-51857 was produced by the inoculation of BEI Resources seed lot 70052224 into Todd-Hewitt broth containing 0.5% (w/v) yeast extract and grown for 1 day at 37°C in an aerobic atmosphere with 5% CO₂. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown for 1 day at 37°C in an aerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70059689

Manufacturing Date: 31MAR2023

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Colony morphology Cellular morphology Hemolysis Motility (wet mount) Catalase VITEK® MS (MALDI-TOF)	Report results Gram-positive cocci α-hemolytic Report results Report results <i>S. pneumoniae</i>	Circular, low convex, entire, smooth and gray Gram-positive cocci α-hemolytic Non-motile Negative <i>S. pneumoniae</i> (99.9%)
Antibiotic Susceptibility Profile¹ Etest® antibiotic test strips 1 day at 35°C in an aerobic atmosphere with 5% CO ₂ on Mueller Hinton agar with 5% defibrinated sheep blood Trimethoprim (bioMérieux 412482)	Resistant	Resistant (> 32 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (1480 base pairs)	≥ 99% sequence identity to <i>S. pneumoniae</i> type strain (GenBank: NR_028665.1)	99.8% sequence identity to <i>S. pneumoniae</i> type strain (GenBank: NR_028665.1)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

¹Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: Burton, R. L. and M. H. Nahm. "Development of a Fourfold Multiplexed Opsonophagocytosis Assay for Pneumococcal Antibodies against Additional Serotypes and Discovery of Serological Subtypes in *Streptococcus pneumoniae* Serotype 20." *Clin. Vaccine Immunol.* 19 (2012): 835-841. PubMed: 22518015

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28 MAY 2023

Technical Manager or designee, ATCC Federal Solutions

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