

Streptococcus pneumoniae, Strain TREP6A

Catalog No. NR-51852

Product Description:

The antibiotic-resistant variant *Streptococcus pneumoniae* (*S. pneumoniae*), strain TREP6A was derived from human wild-type *S. pneumoniae*, strain EF6796 by natural selection using increasing concentrations of trimethoprim. NR-51852 was produced by the inoculation of BEI Resources seed lot 70036754 into Todd-Hewitt broth containing 0.5% (w/v) yeast extract, which was 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 with 5% CO₂ to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70058042

Manufacturing Date: 01FEB2023

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Colony morphology Cellular morphology Hemolysis Motility (wet mount) Biochemical characterization Catalase VITEK® 2 Compact GP card VITEK® MS (MALDI-TOF)	Report results Gram-positive cocci α-hemolytic Report results Report results <i>S. pneumoniae</i> (≥ 89%) <i>S. pneumoniae</i>	Circular, low convex, entire, smooth and gray Gram-positive cocci α-hemolytic Non-motile Negative <i>S. pneumoniae</i> (97%) <i>S. pneumoniae</i> (99%)
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% sheep blood Trimethoprim (bioMérieux 412482) VITEK® (AST-GP74 card) Benzylpenicillin Amoxicillin Cefotaxime Ceftriaxone Ertapenem Meropenem Levofloxacin Moxifloxacin Ofloxacin Erythromycin Telithromycin Linezolid Vancomycin Tetracycline Chloramphenicol Trimethoprim/sulfamethoxazole	Report results Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Intermediate	> 32 µg/mL ² Sensitive (≤ 0.06 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (1 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (2 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 2 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 2 µg/mL) Intermediate (> 32 µg/mL)

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1490 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: Clinical & Laboratory Standards Institute (CLSI) M100-S28 (2018)

²No Clinical & Laboratory Standards Institute (CLSI) interpretations of this antibiotic for *S. pneumoniae* are currently available.

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