

***Streptococcus pneumoniae*, Strain SPEC19F**

Catalog No. NR-51858

Product Description:

The antibiotic-resistant variant *Streptococcus pneumoniae* (*S. pneumoniae*), strain SPEC19F was derived from human wild-type *S. pneumoniae*, strain DS2217-94 by natural selection using increasing concentrations of spectinomycin.

Lot: 70029627¹

Manufacturing Date: 12JUN2019

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Hemolysis ² Motility (wet mount) Biochemical tests: Catalase Biochemical characterization VITEK® 2 Compact (GP card)	Gram-positive cocci Report results α-hemolytic Report results Report results <i>S. pneumoniae</i> (≥ 89%)	Gram-positive cocci Circular, convex, entire, smooth and green (Figure 1) α-hemolytic Non-motile Negative <i>S. pneumoniae</i> (97%)
Antibiotic Susceptibility Profile³ VITEK® (AST-GP74 card) Benzylpenicillin Amoxicillin Cefotaxime Ceftriaxone Ertapenem Meropenem Levofloxacin Moxifloxacin Ofloxacin Erythromycin Telithromycin Linezolid Vancomycin Tetracycline Chloramphenicol Trimethoprim/sulfamethoxazole Etest® antibiotic test strips ⁴ Spectinomycin	Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results	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) Sensitive (≤ 10 µg/mL) ≥ 1024 µg/mL
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1440 base pairs)	≥ 99% sequence identity to <i>S. pneumoniae</i> type strain (GenBank: NR_028665.1)	99.7% sequence identity to <i>S. pneumoniae</i> type strain (GenBank: NR_028665.1) ⁵
Purity (post-freeze)⁶	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹NR-51858 lot 70029627 was produced by the inoculation of BEI Resources NRS-13399 lot 20090205 into Todd-Hewitt broth containing 0.5% (w/v) yeast extract and an aliquot was inoculated into Tryptic Soy broth which was incubated 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.

²1 day at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood

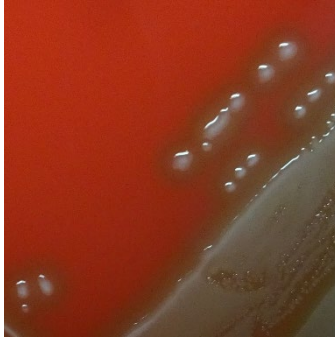
³Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

⁴1 day at 35°C in an aerobic atmosphere with 5% CO₂ on Mueller Hinton agar with 5% sheep blood

⁵Also consistent with other *Streptococcus* species

⁶Purity of this lot was assessed for 9 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



/Heather Couch/
Heather Couch

Program Manager or designee, ATCC Federal Solutions

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