

***Streptococcus pneumoniae*, Strain SPEC1**

Catalog No. NR-13388

Product Description: The antibiotic-resistant variant *Streptococcus pneumoniae* (*S. pneumoniae*), strain SPEC1 was derived from wild type *S. pneumoniae*, strain L82006 by natural selection using increasing concentrations of spectinomycin.

Lot¹: 70015180

Manufacturing Date: 10MAY2018

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Hemolysis ² Motility (wet mount) Biochemical tests: Catalase VITEK [®] MS (MALDI-TOF)	Gram-positive cocci Report results α-hemolytic Report results Report results <i>S. pneumoniae</i>	Gram-positive cocci Circular, raised, entire, smooth and gray (Figure 1) α-hemolytic Non-motile Negative <i>S. pneumoniae</i> (97.3%)
Antibiotic Susceptibility Profile BD BBL™ Sensi-Disc™ susceptibility test disc Spectinomycin (100 µg) ³	Resistant	Resistant (6mm)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1450 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) ⁴
Purity (post-freeze)⁵	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹ NR-13388 lot 70015180 was produced by the inoculation of BEI Resources NR-13388 lot 20090113 into Todd-Hewitt broth containing 0.5% (w/v) yeast extract and 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.

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

³ Test performed using spectinomycin 100 µg (SPT-100, BBL™ catalog no. 231636)

⁴ Also consistent with other *Streptococcus* species

⁵ Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



15 JUN 2018

Program Manager or designee, ATCC Federal Solutions

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