

Certificate of Analysis for NR-51853

Streptococcus pneumoniae, Strain SPEC6B

Catalog No. NR-51853

Product Description:

The antibiotic-resistant variant *Streptococcus pneumoniae* (*S. pneumoniae*), SPEC6B was derived from human wild-type *S. pneumoniae*, strain BG25-9 by natural selection using increasing concentrations of spectinomycin. NR-51853 was produced by the inoculation of BEI Resources seed lot 20090128 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 Todd-Hewitt agar containing 0.5% (w/v) yeast extract kolles, which were grown for 1 day at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

Lot: 70037499 Manufacturing Date: 16JUL2020

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
1 day at 37°C in an aerobic atmosphere with 5% CO ₂ on		
Tryptic Soy agar with 5% defibrinated sheep blood		
Colony morphology	Report results	Circular, low convex, entire,
1 day at 37°C in an aerobic atmosphere with 5% CO ₂ on		smooth and gray (Figure 1)
Tryptic Soy agar with 5% defibrinated sheep blood		
Hemolysis	α-hemolytic	α-hemolytic
Motility (wet mount)	Report results	Non-motile
Biochemical characterization		
Catalase	Report results	Negative
VITEK® 2 GP card	S. pneumoniae (≥ 89%)	S. pneumoniae (90%)
Antibiotic Susceptibility Profile ¹		
BD BBL™ Sensi-Disc™ susceptibility test disc		
1 day at 37°C in an aerobic atmosphere with 5% CO ₂		
on Tryptic Soy agar with 5% sheep blood		
Spectinomycin (100 μg; SPT100, BBL™ 231637)	Report results	≤ 6 mm ²
VITEK® (AST-GP74 card)		
Benzylpenicillin	Report results	Sensitive (≤ 0.06 μg/mL)
Amoxicillin	Report results	Sensitive (≤ 0.06 µg/mL)
Cefotaxime	Report results	Sensitive (≤ 0.06 µg/mL)
Ceftriaxone	Report results	Sensitive (≤ 0.06 μg/mL)
Ertapenem	Report results	Sensitive (≤ 0.5 μg/mL)
Meropenem	Report results	Sensitive (≤ 0.06 μg/mL)
Levofloxacin	Report results	Sensitive (≤ 0.05 μg/mL)
Moxifloxacin	Report results	Sensitive (≤ 0.25 μg/mL)
Ofloxacin	Report results	Sensitive (2 µg/mL)
Erythromycin	Report results	Sensitive (≤ 0.25 μg/mL)
Telithromycin	Report results	Sensitive (≤ 0.25 μg/mL)
Linezolid	Report results	Sensitive (≤ 2 μg/mL)
Vancomycin	Report results	Sensitive (≤ 1 µg/mL)
Tetracycline	Report results	Sensitive (≤ 1 µg/mL)
Chloramphenicol	Report results	Sensitive (≤ 2 μg/mL)
Trimethoprim/sulfamethoxazole	Report results	Sensitive (≤ 10 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	≥ 99% sequence identity to	99.8% sequence identity to
(~ 1480 base pairs)	S. pneumoniae type strain	S. pneumoniae type strain
	(GenBank: NR_028665.1)	(GenBank: NR_028665.1) ³

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TEST	SPECIFICATIONS	RESULTS
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) 1 day at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	Growth	Growth

¹Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

Figure 1: Colony Morphology



/Heather Couch/ Heather Couch

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Program Manager or designee, ATCC Federal Solutions

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

³Also consistent with other *Streptococcus* species