

Certificate of Analysis for NR-19118

Streptococcus pneumoniae, Strain GA17457

Catalog No. NR-19118

Product Description:

Streptococcus pneumoniae (S. pneumoniae), strain GA17457 was isolated in 2000 from the blood of a patient with pneumonia in Georgia, USA, and was deposited as a member of serotype 19A. NR-19118 was produced by the inoculation of BEI Resources seed lot 62743339 into Tryptic Soy broth, 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.

Lot: 70039945 Manufacturing Date: 15OCT2020

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Colony morphology	Report results	Circular, umbilicate, undulate, smooth,
1 day at 37°C in an aerobic atmosphere with 5% CO ₂		opaque and gray (Figure 1)
on Tryptic Soy agar with 5% defibrinated sheep blood		
	0	0
Cellular morphology 1 day at 37°C in an aerobic atmosphere with 5% CO ₂	Gram-positive cocci	Gram-positive cocci
on 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 (97%)
VITEK® MS (MALDI-TOF)	S. pneumoniae	S. pneumoniae (99.9%)
Antibiotic Susceptibility Profile ¹		
BD BBL™ Sensi-Disc™ susceptibility test disc		
1 day at 35°C in an aerobic atmosphere with 5% CO ₂		
on Mueller Hinton agar with 5% sheep blood		
Cefaclor	Report results	30 mm ²
Cefuroxime	Report results	34 mm ²
Clindamycin	Sensitive	Sensitive (20 mm)
Gatifloxacin	Sensitive	Sensitive (25 mm)
Rifampicin	Sensitive	Sensitive (26 mm)
VITEK® (AST-GP74 card)	0 141	Oiti (O-10/1.)
Benzylpenicillin	Sensitive	Sensitive (0.12 µg/mL)
Amoxicillin	Sensitive	Sensitive (0.25 µg/mL) ³
Cefotaxime	Sensitive Sensitive	Sensitive (≤ 0.06 μg/mL)
Ceftriaxone	Sensitive	Sensitive (≤ 0.06 μg/mL) Sensitive (≤ 0.5 μg/mL)
Ertapenem Meropenem	Sensitive	Sensitive (≤ 0.5 μg/mL) Sensitive (≤ 0.06 μg/mL)
Levofloxacin	Sensitive	Sensitive (≤ 0.00 μg/mL)
Moxifloxacin	Sensitive	Sensitive (≤ 0.5 μg/mL) Sensitive (≤ 0.25 μg/mL)
Ofloxacin	Sensitive	Sensitive (\$ 0.25 µg/mL)
Erythromycin	Resistant	Resistant (1 µg/mL)
Telithromycin	Sensitive	Sensitive (≤ 0.25 µg/mL)
Linezolid	Sensitive	Sensitive (≤ 0.25 µg/mL)
Vancomycin	Sensitive	Sensitive (≤ 1 µg/mL)
Tetracycline	Sensitive	Sensitive (≤ 1 µg/mL)
Chloramphenicol	Sensitive	Sensitive (≤ 2 µg/mL)
Trimethoprim/sulfamethoxazole	Intermediate	Intermediate (20 µg/mL)

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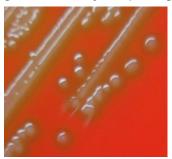


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TEST	SPECIFICATIONS	RESULTS
Etest [®] antibiotic test strips 1 day at 35°C in an aerobic atmosphere with 5% CO ₂ on Mueller Hinton agar with 5% sheep blood		
Spectinomycin Quinupristin/dalfopristin	Report results Report results	0.75 μg/mL² Resistant (0.25 μg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to S. pneumoniae, strain GA17457 (GenBank: AlLS01000016.1)	99.9% sequence identity to S. pneumoniae, strain GA17457 (GenBank: AlLS01000016.1) ⁴
Purity (post-freeze) 8 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 Tryptic Soy agar with 5% defibrinated sheep blood	Growth	Growth

¹Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

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.

³Two MICs were observed for amoxicillin (0.12 μg/mL and 0.25 μg/mL) under identical test conditions. The highest MIC is being reported as the test result.

⁴Also consistent with other Streptococcus species