

Certificate of Analysis for NR-19170

Streptococcus pneumoniae, Strain GA47502

Catalog No. NR-19170

Product Description: *Streptococcus pneumoniae* (*S. pneumoniae*), strain GA47502 was isolated in 2006 from the blood of a patient with pneumonia in Georgia, USA. *S. pneumoniae*, strain GA47502 was deposited as a member of serotype 19A.

Lot¹: 62743348 Manufacturing Date: 03JUL2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology ²	Report results	Circular, umbilicate, undulate,
Colony morphology	report roduito	smooth and gray (Figure 1)
Hemolysis on blood agar ²	α-hemolytic	α-hemolytic
Motility (wet mount)	Report results	Non-motile
Catalase	Negative	Negative
VITEK® MS (MALDI-TOF)	Consistent with S. pneumoniae	Consistent with S. pneumoniae
Antibiotic Susceptibility Profile ³		
Benzylpenicillin ⁴	Sensitive	Sensitive (0.12-1 µg/mL)
Ciprofloxacin ⁵	Report results	Intermediate (1.5 µg/mL)
Levofloxacin ⁴	Sensitive	Sensitive (≤ 1 µg/mL)
Gatifloxacin ⁵	Report results	Sensitive (0.25 µg/mL)
Ofloxacin ⁴	Report results	Sensitive (≤ 2 μg/mL)
Erythromycin ⁴	Resistant	Resistant (≥ 1 µg/mL)
Telithromycin ⁴	Sensitive	Sensitive (≤ 0.25 μg/mL)
Clindamycin ⁵	Resistant	Inconclusive ⁶
Quinupristin/dalfopristin ⁵	Sensitive	Sensitive (0.38 µg/mL)
Linezolid ⁴	Sensitive	Sensitive (≤ 2 µg/mL)
Vancomycin ⁴	Sensitive	Sensitive (≤ 1 µg/mL)
Tetracycline ⁴	Resistant	Resistant (≥ 16 µg/mL)
Rifampicin ⁵	Report results	Sensitive (0.064 µg/mL)
Trimethoprim/sulfamethoxazole ⁴	Intermediate	Intermediate_(20 µg/mL)
Amoxicillin ⁴	Sensitive	Inconclusive ⁷
Meropenem ⁴	Sensitive	Sensitive (≤ 0.06 µg/mL)
Cefotaxime ⁴	Sensitive	Sensitive (0.12-0.25 µg/mL)
Cefuroxine ⁵	Sensitive	Sensitive (0.19 µg/mL)
Cefaclor ⁵	Report results	Resistant (256 µg/mL)
Ceftriaxone ⁴	Sensitive	Sensitive (0.12-0.25 µg/mL)
Chloramphenicol ⁴	Resistant	Sensitive (4 µg/mL) ⁸
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	Consistent with S. pneumoniae	Consistent with S. pneumoniae9
(~ 700 base pairs)	·	
Riboprinter [®] Microbial Characterization System	Consistent with S. pneumoniae	Consistent with S. pneumoniae
Purity (post-freeze) ¹⁰	Consistent with S. pneumoniae	Consistent with S. pneumoniae
Viability (post-freeze) ²	Growth	Growth

¹S. pneumoniae, strain GA47502 (also referred to as SPAR98) was deposited by Scott T. Chancey, Ph.D., Division of Infectious Diseases, Department of Medicine, Emory University, Atlanta, Georgia, USA. NR-19170 was produced by inoculation of the deposited material into Tryptic Soy broth and incubated for 21 hours 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 22 hours at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

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

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³Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

⁴Tested by VITEK[®] AST-GP74 card (VITEK[®] 2, version 5.04)
⁵Tested by bioMérieux E-test[®]: cefuroxime (catalog number 506958), ciprofloxacin (412310), clindamycin (412314), cefaclor (504550), gatifloxacin (530250), rifampicin (412449) and quinupristin/dalfopristin (528750)

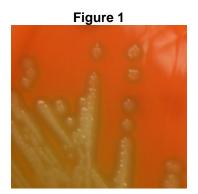
⁶S. pneumoniae, strain GA47502 was deposited as being resistant to clindamycin. Results from multiple antibiotic susceptibility tests, completed on this lot of NR-19170, produced clindamycin MICs between 0.19 µg/mL and 256 µg/mL, which indicates both sensitive and resistant clindamycin susceptibilities.

⁷S. pneumoniae, strain GA47502 was deposited as being sensitive to amoxicillin. Results from multiple antibiotic susceptibility tests, completed on this lot of NR-19170, produced amoxicillin MICs between 0.12 µg/mL and 8 µg/mL, which indicates both sensitive and resistant amoxicillin susceptibilities.

8S. pneumoniae, strain GA47502 was deposited as being resistant to chloramphenicol. Antibiotic susceptibility testing performed on this lot of NR-19170, in triplicate, determined that the chloramphenicol MIC was 4 µg/mL, which indicates a sensitive susceptibility.

⁹≥ 99.9% identical to *S. pneumoniae*, strain GA47502 (GenBank: AGNV01000015.1)

¹⁰Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere with 5% CO₂.



Date: 29 DEC 2014

Signature:

Title:

Technical Manager, BEI Authentication or designee

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