

***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 Colony morphology ² Hemolysis on blood agar ² Motility (wet mount) Catalase VITEK [®] MS (MALDI-TOF)	Gram-positive cocci Report results α-hemolytic Report results Negative Consistent with <i>S. pneumoniae</i>	Gram-positive cocci Circular, umbilicate, undulate, smooth and gray (Figure 1) α-hemolytic Non-motile Negative Consistent with <i>S. pneumoniae</i>
Antibiotic Susceptibility Profile³ Benzylpenicillin ⁴ Ciprofloxacin ⁵ Levofloxacin ⁴ Gatifloxacin ⁵ Ofloxacin ⁴ Erythromycin ⁴ Telithromycin ⁴ Clindamycin ⁵ Quinupristin/dalfopristin ⁵ Linezolid ⁴ Vancomycin ⁴ Tetracycline ⁴ Rifampicin ⁵ Trimethoprim/sulfamethoxazole ⁴ Amoxicillin ⁴ Meropenem ⁴ Cefotaxime ⁴ Cefuroxime ⁵ Cefaclor ⁵ Ceftriaxone ⁴ Chloramphenicol ⁴	Sensitive Report results Sensitive Report results Report results Resistant Sensitive Resistant Sensitive Sensitive Sensitive Resistant Report results Intermediate Sensitive Sensitive Sensitive Report results Sensitive Resistant	Sensitive (0.12-1 µg/mL) Intermediate (1.5 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (0.25 µg/mL) Sensitive (≤ 2 µg/mL) Resistant (≥ 1 µg/mL) Sensitive (≤ 0.25 µg/mL) Inconclusive ⁶ Sensitive (0.38 µg/mL) Sensitive (≤ 2 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (0.064 µg/mL) Intermediate (20 µg/mL) Inconclusive ⁷ Sensitive (≤ 0.06 µg/mL) Sensitive (0.12-0.25 µg/mL) Sensitive (0.19 µg/mL) Resistant (256 µg/mL) Sensitive (0.12-0.25 µg/mL) Sensitive (4 µg/mL) ⁸
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 700 base pairs) Riboprinter [®] Microbial Characterization System	Consistent with <i>S. pneumoniae</i> Consistent with <i>S. pneumoniae</i>	Consistent with <i>S. pneumoniae</i> ⁹ Consistent with <i>S. pneumoniae</i>
Purity (post-freeze)¹⁰	Consistent with <i>S. pneumoniae</i>	Consistent with <i>S. pneumoniae</i>
Viability (post-freeze)²	Growth	Growth

¹*S. 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

Certificate of Analysis for NR-19170

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)

⁶*S. 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.

⁷*S. 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.

⁸*S. 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.

Figure 1



Date: 29 DEC 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

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