

Certificate of Analysis for NR-19171

Streptococcus pneumoniae, Strain GA47522

Catalog No. NR-19171

Product Description: *Streptococcus pneumoniae* (*S. pneumoniae*), strain GA47522 was isolated in 2006 from the blood of a patient with bacteremia in Georgia, USA. *S. pneumoniae*, strain GA47522 was deposited as a member of serotype 15C.

Lot¹: 62743349

Manufacturing Date: 09JUL2014

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, entire, mucoid and gray (Figure 1) α-hemolytic Non-motile Negative Consistent with <i>S. pneumoniae</i>
Antibiotic Susceptibility Profile³ Benzylpenicillin ⁴ Ciprofloxacin ⁶ Levofloxacin ⁴ Gatifloxacin ⁶ Ofloxacin ⁴ Erythromycin ⁴ Telithromycin ⁴ Clindamycin ⁶ Quinupristin/dalfopristin ⁶ Linezolid ⁴ Vancomycin ⁴ Tetracycline ⁴ Rifampicin ⁶ Trimethoprim/sulfamethoxazole ⁴ Amoxicillin ⁴ Meropenem ⁴ Cefotaxime ⁴ Cefuroxime ⁶ Cefaclor ⁶ Ceftriaxone ⁴ Chloramphenicol ⁴	Report results Report results Sensitive Report results Report results Resistant Sensitive Sensitive Sensitive Sensitive Sensitive Resistant Report results Intermediate Sensitive Sensitive Sensitive Sensitive Report results Sensitive Sensitive	Inconclusive ⁵ Sensitive (1.0 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (0.19 µg/mL) Sensitive (2 µg/mL) Resistant (≥ 1 µg/mL) Resistant (≥ 4 µg/mL) ⁷ Sensitive (0.19 µg/mL) Sensitive (0.38 µg/mL) Sensitive (≤ 2 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 1 µg/mL) ⁸ Sensitive (0.64 µg/mL) Intermediate (≤ 10 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (0.032 µg/mL) Sensitive (0.75 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (≤ 2 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 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

S. pneumoniae, strain GA47522 (also referred to as SPAR99) was deposited by Scott T. Chancey, Ph.D., Division of Infectious Diseases, Department of Medicine, Emory University, Atlanta, Georgia, USA. NR-19171 was produced by inoculation of the deposited material into Todd-Hewitt broth and incubated for 26 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 23 hours at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

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

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

⁴Tested by VITEK[®] AST-GP74 card (VITEK[®] 2, version 5.04)

⁵Results from multiple antibiotic susceptibility tests, completed on this lot of NR-19171, produced benzylpenicillin MICs between 4 µg/mL and 8 µg/mL, which indicates both resistant and intermediate benzylpenicillin susceptibilities.

⁶Tested by bioMérieux E-test[®]: cefuroxime (catalog number 506958), ciprofloxacin (412310), clindamycin (412314), cefaclor (504550), gatifloxacin (530250), rifampicin (412449) and quinupristin/dalfopristin (528750)

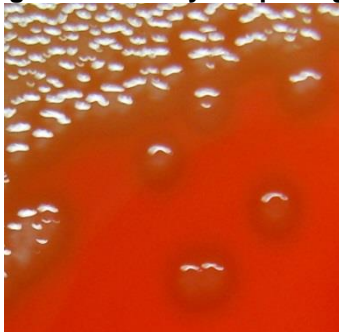
⁷*S. pneumoniae*, strain GA47522 was deposited as being sensitive to telithromycin. Antibiotic susceptibility testing performed on this lot of NR-19171, in triplicate, determined that the telithromycin MIC is ≥ 4 µg/mL, which indicates resistant susceptibility.

⁸*S. pneumoniae*, strain GA47522 was deposited as being resistant to tetracycline. Antibiotic susceptibility testing performed on this lot of NR-19171, in triplicate, determined that the tetracycline MIC is ≤ 1 µg/mL, which indicates sensitive susceptibility.

⁹100% identical to *S. pneumoniae*, strain GA47522 (GenBank: AILA01000001.1)

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: Colony Morphology



Date: 29 JAN 2016

Signature:

BEI Resources Authentication

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