

***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. *S. pneumoniae*, strain GA17457 was deposited as a member of serotype 19A.

Lot¹: 62743340

Manufacturing Date: 02JUL2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphologies (Figure 1) ^{2,3} Hemolysis on blood agar ² Motility (wet mount) Catalase VITEK [®] 2 (GP Card) VITEK [®] MS (MALDI-TOF)	Gram-positive cocci Report results α-hemolytic Report results Negative Consistent with <i>S. pneumoniae</i> Consistent with <i>S. pneumoniae</i>	Gram-positive cocci Colony type 1: Circular, umbilicate, undulate, opaque and gray Colony type 2: Circular, low convex, entire, opaque, smooth and gray α-hemolytic Non-motile Negative Consistent with <i>S. pneumoniae</i> Consistent with <i>S. pneumoniae</i>
Antibiotic Susceptibility Profile⁴ Benzylpenicillin ⁵ Ciprofloxacin ⁶ Levofloxacin ⁵ Gatifloxacin ⁶ Ofloxacin ⁵ Erythromycin ⁵ Telithromycin ⁵ Clindamycin ⁶ Quinupristin/dalfopristin ⁶ Linezolid ⁵ Vancomycin ⁵ Tetracycline ⁵ Rifampicin ⁶ Trimethoprim/sulfamethoxazole ⁵ Amoxicillin ⁵ Meropenem ⁵ Cefotaxime ⁵ Cefuroxime ⁶ Cefaclor ⁶ Ceftriaxone ⁵ Chloramphenicol ⁵	Sensitive Report results Sensitive Sensitive Report results Resistant Report results Sensitive Report results Report results Sensitive Sensitive Report results Intermediate Sensitive Sensitive Sensitive Sensitive Report results Report results Sensitive	Sensitive (0.12 µg/mL) Sensitive (1.0 µg/mL) Sensitive (1 µg/mL) Sensitive (0.25 µg/mL) Sensitive (2 µg/mL) Resistant (≥ 1 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (0.25 µg/mL) Sensitive (0.38 µg/mL) Sensitive (≤ 2 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (0.064 µg/mL) Intermediate (20 µg/mL) Sensitive (0.12 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (0.19 µg/mL) Sensitive (1.0 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (≤ 2 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs) Riboprinter [®] Microbial Characterization System	Consistent with <i>S. pneumoniae</i> Consistent with <i>S. pneumoniae</i>	Consistent with <i>S. pneumoniae</i> ⁷ Consistent with <i>S. pneumoniae</i>
Purity (post-freeze)⁸	Consistent with <i>S. pneumoniae</i>	Consistent with <i>S. pneumoniae</i>
Viability (post-freeze)²	Growth	Growth

Certificate of Analysis for NR-19118

¹*S. pneumoniae*, strain GA17457 (also referred to as SPAR46) was deposited by Scott T. Chancey, Ph.D., Division of Infectious Diseases, Department of Medicine, Emory University, Atlanta, Georgia, USA. NR-19118 was produced by inoculation of the deposited material into Tryptic Soy broth and incubated for 24 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 24 hours at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

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

³Two colony types were observed. Plating of the individual colony types showed that they merged to a single colony type (Colony Type 1, Figure 1).

The 16S ribosomal RNA gene of the mixed population was sequenced and found to be consistent with *S. pneumoniae*.

⁴Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

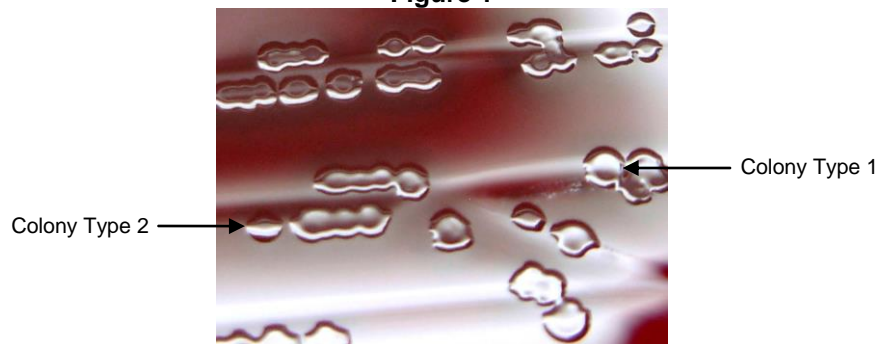
⁵Tested by VITEK[®] AST-GP74 card (VITEK[®] 2, version 5.04)

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

⁷≥ 99.9% identical to *S. pneumoniae*, strain GA17457 (GenBank: AILS01000016.1)

⁸Purity 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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