

***Streptococcus pneumoniae*, Strain GA04375**

**Catalog No. NR-19077**

**Product Description:** *Streptococcus pneumoniae* (*S. pneumoniae*), strain GA04375 was isolated in 1995 from the blood from a patient with bacteremia in Georgia, USA. *S. pneumoniae*, strain GA04375 was deposited as a member of serotype 19F.

**Lot<sup>1</sup>: 62743332**

**Manufacturing Date: 26JUN2014**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup>  Hemolysis on blood agar <sup>2</sup> Motility (wet mount) Catalase VITEK <sup>®</sup> 2 (GP Card)	Gram-positive cocci Report results  α-hemolytic Report results Negative Consistent with <i>S. pneumoniae</i>	Gram-positive cocci Circular, umbilicate, undulate and gray (Figure 1) α-hemolytic Non-motile Negative Consistent with <i>S. pneumoniae</i>
<b>Antibiotic Susceptibility Profile<sup>3</sup></b> Benzylpenicillin <sup>4</sup> Ciprofloxacin <sup>5</sup> Levofloxacin <sup>4</sup> Gatifloxacin <sup>5</sup> Ofloxacin <sup>4</sup> Erythromycin <sup>4</sup> Telithromycin <sup>4</sup> Clindamycin <sup>5</sup> Quinupristin/dalfopristin <sup>5</sup> Linezolid <sup>4</sup> Vancomycin <sup>4</sup> Tetracycline <sup>4</sup> Rifampicin <sup>5</sup> Trimethoprim/sulfamethoxazole <sup>4</sup> Amoxicillin <sup>4</sup> Meropenem <sup>4</sup> Cefotaxime <sup>4</sup> Cefuroxime <sup>5</sup> Cefaclor <sup>5</sup> Ceftriaxone <sup>4</sup> Chloramphenicol <sup>4</sup>	Sensitive Report results Report results Report results Sensitive Resistant Report results Sensitive Sensitive Report results Sensitive Sensitive Sensitive Sensitive Report results Sensitive Sensitive Sensitive Resistant Report results Sensitive Sensitive Report results Report results Report results Sensitive	Sensitive (0.25 µg/mL) Sensitive (1.0 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (0.25 µg/mL) Sensitive (2 µg/mL) Resistant (≥ 1 µg/mL) Sensitive (0.5 µg/mL) Sensitive (0.19 µg/mL) Sensitive (0.38 µg/mL) Sensitive (≤ 2 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (0.064 µg/mL) Resistant (160 µg/mL) Sensitive (0.25 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (0.25 µg/mL) Sensitive (0.19 µg/mL) Intermediate (2.0 µg/mL) Sensitive (0.12 µg/mL) Sensitive (≤ 2 µg/mL)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs) Riboprinter <sup>®</sup> Microbial Characterization System	Consistent with <i>S. pneumoniae</i> Consistent with <i>S. pneumoniae</i>	Consistent with <i>S. pneumoniae</i> <sup>6</sup> Consistent with <i>S. pneumoniae</i>
<b>Purity (post-freeze)<sup>7</sup></b>	Consistent with <i>S. pneumoniae</i>	Consistent with <i>S. pneumoniae</i>
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>*S. pneumoniae*, strain GA04375 (also referred to as SPAR5) was deposited by Scott T. Chancey, Ph.D., Division of Infectious Diseases, Department of Medicine, Emory University, Atlanta, Georgia, USA. NR-19077 was produced by inoculation of the deposited material into Todd-Hewitt broth and incubated for 24 hours at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>. 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% CO<sub>2</sub> to produce this lot.

<sup>2</sup>26 hours at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood

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

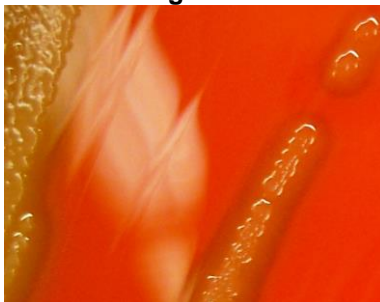
<sup>4</sup>Tested by VITEK<sup>®</sup> AST-GP74 card (VITEK<sup>®</sup> 2, version 5.04)

<sup>5</sup>Tested by bioMérieux E-test<sup>®</sup>: cefuroxime (catalog number 506958), ciprofloxacin (412310), clindamycin (412314), cefaclor (504550), gatifloxacin (530250), rifampicin (412449) and quinupristin/dalfopristin (528750)

<sup>6</sup>100% identical to *S. pneumoniae*, strain GA04375 (GenBank: AFAX01000001.1)

<sup>7</sup>Purity 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% CO<sub>2</sub>.

Figure 1



Date: 29 DEC 2014

Signature:

Title:

Technical Manager, BEI Authentication or designee

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