

**Streptococcus pneumoniae, Strain GA04375**

**Catalog No. NR-19077**

**Product Description:**

*Streptococcus pneumoniae* (*S. pneumoniae*), strain GA04375 was isolated in 1995 from the blood of a patient with bacteremia in Georgia, USA. Strain GA04375 was deposited as sensitive to synergid, ofloxacin, chloramphenicol, clindamycin, quinupristin/dalfopristin, meropenem, rifampin, cefotaxime, tetracycline and vancomycin, intermediately resistant to penicillin and resistant to erythromycin and trimethoprim/sulfamethoxazole. NR-19077 was produced by the inoculation of BEI Resources seed lot 62743331 into Todd-Hewitt broth which was grown for 1 day 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 for 1 day at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

**Lot: 70055554**

**Manufacturing Date: 21SEP2022**

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TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology  Hemolysis Motility (wet mount) Catalase VITEK® 2 (GP Card)	Gram-positive cocci Report results  Report results Report results Negative Consistent with <i>S. pneumoniae</i>	Gram-positive cocci Irregular, umbilicate, undulate, smooth and gray α-hemolytic Non-motile Negative Consistent with <i>S. pneumoniae</i>
<b>Antibiotic Susceptibility Profile<sup>1</sup></b> Etest® antibiotic test strips 1 day at 35°C in an aerobic atmosphere with 5% CO <sub>2</sub> on Mueller-Hinton agar with 5% sheep blood Benzylpenicillin Cefuroxime Cefaclor Ceftriaxone Cefotaxime Ciprofloxacin Clindamycin Gatifloxacin Quinupristin/dalfopristin Rifampin VITEK® (AST-GP74 card) Amoxicillin Chloramphenicol Ertapenem Erythromycin Levofloxacin Linezolid Meropenem Moxifloxacin Ofloxacin	Sensitive Sensitive Intermediate Sensitive Sensitive Report results Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Report results Resistant Sensitive Sensitive Report results Sensitive	Sensitive (0.25 µg/mL) Sensitive (0.38 µg/mL) Intermediate (2 µg/mL) Sensitive (0.38 µg/mL) Sensitive (0.125 µg/mL) 0.5 µg/mL <sup>2</sup> Sensitive (0.19 µg/mL) Sensitive (0.25 µg/mL) <sup>3</sup> Sensitive (0.38 µg/mL) Sensitive (0.047 µg/mL)  Sensitive (0.25 µg/mL) Sensitive (≤ 2 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 1 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 2 µg/mL) Sensitive (≤ 0.06 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 1 µg/mL)

TEST	SPECIFICATIONS	RESULTS
Telithromycin Tetracycline Trimethoprim/sulfamethoxazole Vancomycin	Sensitive Sensitive Resistant Sensitive	Sensitive (0.5 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (160 µg/mL) Sensitive (≤ 1 µg/mL)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	≥ 99% sequence identity to <i>S. pneumoniae</i> , strain GA04375 (GenBank: AFAX01000001.1)	100% sequence identity to <i>S. pneumoniae</i> , strain GA04375 (GenBank: AFAX01000001.1)
<b>Purity (post-freeze)</b> 7 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
<b>Viability (post-freeze)</b>	Growth	Growth

<sup>1</sup>Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

<sup>2</sup>Clinical & Laboratory Standards Institute (CLSI) interpretation of this antibiotic test for *S. pneumoniae* is currently not available. For any given antibiotic, a result that is within one doubling dilution of specification, as determined by the previous lot (62743331), is considered passing.

<sup>3</sup>Testing was performed on BEI Resources seed lot 62743331.

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27 SEP 2023

Technical Manager or designee, ATCC Federal Solutions

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