

***Streptococcus pneumoniae*, Strain GA19998**

**Catalog No. NR-19133**

**Product Description:**

*Streptococcus pneumoniae* (*S. pneumoniae*), strain GA19998 was isolated in 2004 from the blood of a patient with pneumonia in Georgia, USA. NR-19133 lot 70049547 was produced by the inoculation BEI Resources seed lot 62743342 into Tryptic Soy broth and incubated 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: 70049547**

**Manufacturing Date: 22DEC2021**

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TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphologies <sup>1</sup>  Hemolysis Motility (wet mount) Biochemical characterization Catalase VITEK® 2 (GP card) VITEK® MS (MALDI-TOF)	Gram-positive cocci Report results  Report results Report results  Negative <i>S. pneumoniae</i> (≥ 89%) <i>S. pneumoniae</i>	Gram-positive cocci Colony type 1: Circular, umbilicate, undulate, opaque and gray (Figure 1) Colony type 2: Circular, low convex, entire, smooth and gray (Figure 1)  α-hemolytic Non-motile  Negative <i>S. pneumoniae</i> (96%) <i>S. pneumoniae</i> (99.9%)
<b>Antibiotic Susceptibility Profile<sup>2</sup></b> BD BBL™ Sensi-Disc™ susceptibility test discs 1 day at 35°C in an aerobic atmosphere with 5% CO <sub>2</sub> on Mueller Hinton agar with 5% sheep blood Gatifloxacin E-test® antibiotic test strips Amoxicillin Benzylpenicillin Cefaclor Cefotaxime Cefuroxime Ceftriaxone Ciprofloxacin Clindamycin Meropenem Quinupristin/dalfopristin Rifampicin VITEK® (AST-GP74 card) Chloramphenicol Erythromycin Levofloxacin Linezolid	Sensitive  Intermediate Intermediate Resistant Resistant Resistant Resistant Resistant Report results Sensitive Intermediate Sensitive Sensitive  Sensitive Resistant Sensitive Sensitive	Sensitive (25.4 mm)  Intermediate (3 to 4 µg/mL) Intermediate (2 to 4 µg/mL) Resistant (96 to 128 µg/mL) Resistant (≥ 32 µg/mL) Resistant (48 to 64 µg/mL) Resistant (4 µg/mL) 1.5 to 2.0 µg/mL <sup>3</sup> Sensitive (0.19 µg/mL) Intermediate (0.5 µg/mL) Sensitive (0.38 to 0.50 µg/mL) Sensitive (0.125 µg/mL)  Sensitive (≤ 2 µg/mL) Resistant (≥ 1 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 2 µg/mL)

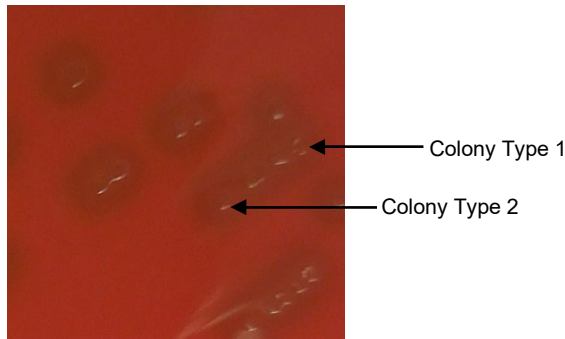
TEST	SPECIFICATIONS	RESULTS
Ofloxacin Telithromycin Tetracycline Trimethoprim/sulfamethoxazole Vancomycin	Sensitive Sensitive Sensitive Resistant Sensitive	Sensitive (2 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (≥ 320 µg/mL) Sensitive (≤ 1 µg/mL)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	≥ 99% sequence identity to <i>S. pneumoniae</i> , strain GA19998 (GenBank: ALCS01000005.1)	99.6% sequence identity to <i>S. pneumoniae</i> , strain GA19998 (GenBank: ALCS01000005.1)
<b>Purity</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</b>	Growth	Growth

<sup>1</sup>Two colony types were observed. Plating of the individual colony types showed that colony type 1 reverted to a mixed colony type whereas colony type 2 remained true. This result concurs with the previous lot.

<sup>2</sup>Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

<sup>3</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 (62743341), is considered passing.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/  
Sonia Bjorum Brower

Technical Manager or designee, ATCC Federal Solutions

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