

***Streptococcus pneumoniae*, Strain GA17545**

Catalog No. NR-19220

Product Description: *Streptococcus pneumoniae* (*S. pneumoniae*), strain GA17545 was isolated in 2000 from the cerebral spinal fluid of a patient with meningitis in Georgia, USA. *S. pneumoniae*, strain GA17545 was deposited as a member of serotype 06B.

Lot¹: 62743353

Manufacturing Date: 02JUL2014

| 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, low convex, entire, smooth and gray (Figure 1) α-hemolytic Non-motile Negative Consistent with <i>S. pneumoniae</i> |
| Antibiotic Susceptibility Profile³ Benzylpenicillin ⁴ Ciprofloxacin ⁵ Levofloxacin ⁴ Gatifloxacin ⁵ Ofloxacin ⁴ Erythromycin ⁴ Telithromycin ⁴ Clindamycin ⁵ Quinupristin/dalfopristin ⁵ Linezolid ⁴ Vancomycin ⁴ Tetracycline ⁴ Rifampicin ⁵ Trimethoprim/sulfamethoxazole ⁴ Amoxicillin ⁴ Meropenem ⁴ Cefotaxime ⁴ Cefuroxime ⁵ Cefaclor ⁵ Ceftriaxone ⁴ Chloramphenicol ⁴ | Resistant Report results Sensitive Sensitive Report results Resistant Report results Sensitive Report results Sensitive Report results Sensitive Report results Resistant Sensitive Intermediate Report results Resistant Report results Report results Sensitive | Resistant (≥ 4 µg/mL) Sensitive (1.0 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (0.19 µg/mL) Sensitive (≤ 2 µg/mL) Resistant (≥ 1 µg/mL) Inconclusive ⁶ Sensitive (0.19 µg/mL) Sensitive (0.38 µg/mL) Sensitive (≤ 2 µg/mL) Inconclusive ⁷ Sensitive (≤ 2 µg/mL) Sensitive (0.047 µg/mL) Resistant (160 µg/mL) Inconclusive (4-8 µg/mL) ⁸ Intermediate (0.5-1 µg/mL) Resistant (≥ 4 µg/mL) ⁹ Resistant (6 µg/mL) Resistant (192 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 2 µg/mL) |
| Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 700 base pairs) Riboprinter [®] Microbial Characterization System | Consistent with <i>S. pneumoniae</i> Consistent with <i>S. pneumoniae</i> | Consistent with <i>S. pneumoniae</i> ¹⁰ Consistent with <i>S. pneumoniae</i> |
| Purity (post-freeze)¹¹ | Consistent with <i>S. pneumoniae</i> | Consistent with <i>S. pneumoniae</i> |
| Viability (post-freeze)² | Growth | Growth |

¹*S. pneumoniae*, strain GA17545 (also referred to as SPAR148) was deposited by Scott T. Chancey, Ph.D., Division of Infectious Diseases, Department of Medicine, Emory University, Atlanta, Georgia, USA. NR-19220 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 24 hours at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

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

Certificate of Analysis for NR-19220

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

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

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

⁶Results from multiple antibiotic susceptibility tests, completed on this lot of NR-19220, produced telithromycin MICs between 0.5 µg/mL and 4 µg/mL, which indicates both sensitive and resistant telithromycin susceptibilities.

⁷*S. pneumoniae*, strain GA17545 was deposited as being sensitive to vancomycin. Results from multiple antibiotic susceptibility tests, completed on this lot of NR-19220, produced vancomycin MICs between 1 µg/mL and 2 µg/mL, which indicates both sensitive and resistant vancomycin susceptibilities.

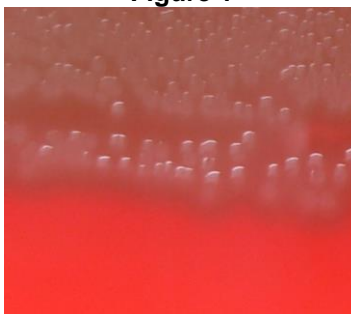
⁸*S. pneumoniae*, strain GA17545 was deposited as being sensitive to amoxicillin. Results from multiple antibiotic susceptibility tests, completed on this lot of NR-19220, produced amoxicillin MICs between 4 µg/mL and 8 µg/mL, which indicates both intermediate and resistant amoxicillin susceptibilities.

⁹*S. pneumoniae*, strain GA17545 was deposited as having intermediate susceptibility to cefotaxime. Antibiotic susceptibility testing performed on this lot of NR-19220, in triplicate, determined that the cefotaxime MIC was ≥ 4 µg/mL, which indicates resistant susceptibility.

¹⁰≥ 99.0% identical to *S. pneumoniae*, strain GA17545 (GenBank: AFGA01000001.1)

¹¹Purity 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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