SUPPORTING INFECTIOUS DISEASE RESEARCH

Streptococcus pneumoniae, Strain GA16242

Catalog No. NR-19111

Product Description: Streptococcus pneumoniae (S. pneumoniae), strain GA16242 was isolated in 2001 from the blood of a patient with bacteremia in Georgia, USA. S. pneumoniae, strain GA16242 was deposited as a member of serotype 6A/C.

Lot¹: 62743356

Manufacturing Date: 02JUL2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology ²	Report results	Circular, low convex, entire,
, , , , , , , , , , , , , , , , , , , ,		smooth and gray (Figure 1)
Hemolysis on blood agar ²	a-hemolytic	a-hemolytic
Motility (wet mount)	Report results	Non-motile
Catalase	Negative	Negative
VITEK [®] MS (MALDI-TOF)	Consistent with S. pneumoniae	Consistent with S. pneumoniae
Antibiotic Susceptibility Profile ³		
Benzylpenicillin ⁴	Sensitive	Sensitive (1 µg/mL)
Ciprofloxacin ⁵	Report results	Sensitive (0.5 µg/mL)
Levofloxacin ⁴	Sensitive	Sensitive ($\leq 0.5 \mu$ g/mL)
Gatifloxacin ⁵	Sensitive	Sensitive (0.125 µg/mL)
Ofloxacin ⁴	Report results	Sensitive (≤ 1 µg/mL)
Erythromycin ⁴	Resistant	Resistant (≥ 1 µg/mL)
Telithromycin ⁴	Report results	Intermediate (2 µg/mL)
Clindamycin ⁵	Sensitive	Sensitive (0.125 µg/mL)
Quinupristin/dalfopristin ⁵	Report results	Sensitive (0.38 µg/mL)
Linezolid ⁴	Report results	Sensitive (≤ 2 µg/mL)
Vancomycin ⁴	Sensitive	Sensitive (≤ 1 µg/mL)
Tetracycline ⁴	Sensitive	Sensitive (≤ 1 µg/mL)
Rifampicin ⁵	Report results	Sensitive (0.032 µg/mL)
Trimethoprim/sulfamethoxazole ⁴	Resistant	Resistant (160 µg/mL)
Amoxicillin ⁴	Sensitive	Sensitive (1 µg/mL)
Meropenem ⁴	Intermediate	Intermediate (0.5 µg/mL)
Cefotaxime ⁴	Sensitive	Sensitive (1 µg/mL)
Cefuroxine⁵	Resistant	Intermediate (1.5-2 µg/mL) ⁶
Cefaclor ⁵	Report results	Resistant (256 µg/mL)
Ceftriaxone ⁴	Report results	Sensitive (0.5 µg/mL)
Chloramphenicol ⁴	Sensitive	Sensitive (≤ 2 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	Consistent with S. pneumoniae	Consistent with <i>S. pneumoniae</i> ⁷
(~ 720 base pairs)		,
Riboprinter [®] Microbial Characterization System	Consistent with S. pneumoniae	Consistent with S. pneumoniae
Purity (post-freeze) ⁸	Consistent with S. pneumoniae	Consistent with S. pneumoniae
Viability (post-freeze) ²	Growth	Growth
1		

¹S. pneumoniae, strain GA16242 (also referred to as SPAR39) was deposited by Scott T. Chancey, Ph.D., Division of Infectious Diseases, Department of Medicine, Emory University, Atlanta, Georgia, USA. NR-19111 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 23 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

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Certificate of Analysis for NR-19111

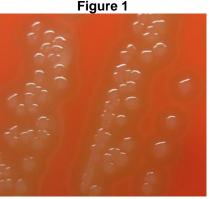
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³Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

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)

⁶S. pneumoniae, strain GA16242 was deposited as being resistant to cefuroxime. Results from multiple antibiotic susceptibility tests, completed on this lot of NR-19111, produced cefuroxime MICs between 1.5 µg/mL and 2 µg/mL, which indicates an intermediate cefuroxime susceptibility. ⁷100% identical to S. pneumoniae, strain GA16242 (GenBank: AGPE01000007.1)

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.



Date: 29 DEC 2014

Signature:

Title: Technical Manager, BEI Authentication or designee

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