

Certificate of Analysis for NR-19101

Streptococcus pneumoniae, Strain GA13430

Catalog No. NR-19101

Product Description: *Streptococcus pneumoniae* (*S. pneumoniae*), strain GA13430 was isolated in 1999 from the blood of a patient with bacteremia and fever in Georgia, USA. *S. pneumoniae*, strain GA13430 was deposited as a member of serotype 19F.

Lot¹: 62743337 Manufacturing Date: 02JUL2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology Colony morphologies (Figure 1) ^{2,3}	Gram-positive cocci Report results	Gram-positive cocci Colony type 1: Circular,
		umbilicate, undulate, opaque
		and gray Colony type 2: Circular, low
		convex, entire, opaque,
		smooth and gray
Hemolysis on blood agar ²	α-hemolytic	α-hemolytic
Motility (wet mount) Catalase	Report results Negative	Non-motile Negative
VITEK® 2 (GP Card)	Consistent with <i>S. pneumoniae</i>	Consistent with <i>S. pneumoniae</i>
VITEK [®] 2 (GP Card) VITEK [®] MS (MALDI-TOF)	Consistent with S. pneumoniae	Consistent with <i>S. pneumoniae</i>
Antibiotic Susceptibility Profile ⁴		·
Benzylpenicillin ⁵	Sensitive	Inconclusive (2-4 µg/mL) ⁶
Ciprofloxacin ⁷	Report results	Intermediate (3 µg/mL)
Levofloxacin ⁵	Sensitive	Sensitive (1 µg/mL)
Gatifloxacin'	Report results	Sensitive (0.38 µg/mL)
Ofloxacin ⁵	Report results	Sensitive (2 µg/mL)
Erythromycin ⁵ Telithromycin ⁵	Resistant	Resistant (≥ 1 µg/mL)
Clindamycin 7	Report results Sensitive	Sensitive (≤ 0.25 μg/mL) Sensitive (0.125 μg/mL)
Quinupristin/dalfopristin ⁷	Sensitive	Sensitive (0.125 µg/mL)
Linezolid ⁵	Report results	Sensitive (0.36 μg/mL)
Vancomycin ⁵	Sensitive	Sensitive (≤ 1 µg/mL)
Tetracycline ⁵	Resistant	Resistant (≥ 16 µg/mL)
Rifampicin ⁷	Sensitive	Sensitive (0.047 µg/mL)
Trimethoprim/sulfamethoxazole ⁵	Resistant	Resistant (80 µg/mL)
Amoxicillin ⁵	Sensitive	Sensitive (2 µg/mL)
Meropenem ⁵	Intermediate	Intermediate (0.5-1 µg/mL)
Cefotaxime ⁵ Cefuroxine ⁷	Sensitive Resistant	Inconclusive (1-2 µg/mL) ⁸
Cefaclor ⁷	Resistant Report results	Resistant (4 µg/mL) Resistant (256 µg/mL)
Ceftriaxone ⁵	Report results	Intermediate (2 µg/mL)
Chloramphenicol ⁵	Resistant	Resistant (8-16 µg/mL)
Genotypic Analysis		,
Sequencing of 16S ribosomal RNA gene	Consistent with S. pneumoniae	Consistent with S. pneumoniae9
(~ 1430 base pairs)	·	·
Riboprinter [®] Microbial Characterization System	Consistent with S. pneumoniae	Consistent with S. pneumoniae
Purity (post-freeze) ¹⁰	Consistent with S. pneumoniae	Consistent with S. pneumoniae
Viability (post-freeze) ²	Growth	Growth

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SUPPORTING INFECTIOUS DISEASE RESEARCH

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¹S. pneumoniae, strain GA13430 (also referred to as SPAR29) was deposited by Scott T. Chancey, Ph.D., Division of Infectious Diseases, Department of Medicine, Emory University, Atlanta, Georgia, USA. NR-19101 was produced by inoculation of the deposited material into Tryptic Soy broth and incubated for 24 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.

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

³Two colony types were observed. Plating of the individual colony types showed that they merged to a single colony type (Colony Type 1, Figure 1). The 16S ribosomal RNA gene of the mixed population was sequenced and found to be consistent with *S. pneumoniae*.

⁴Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

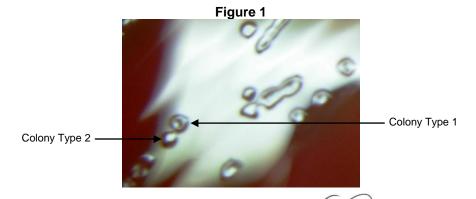
⁵Tested by VITEK[®] AST-GP74 card (VITEK[®] 2, version 5.04)

⁶S. pneumoniae, strain GA13430 was deposited as being sensitive to penicillin. Results from multiple antibiotic susceptibility tests, completed on this lot of NR-19101, produced penicillin MICs between 2 μg/mL and 4 μg/mL, which indicates both sensitive and intermediate penicillin susceptibilities.
⁷Tested by bioMérieux E-test[®]: cefuroxime (catalog number 506958), ciprofloxacin (412310), clindamycin (412314), cefaclor (504550), gatifloxacin (530250), rifampicin (412449) and quinupristin/dalfopristin (528750)

8S. pneumoniae, strain GA13430 was deposited as being sensitive to cefotaxime. Results from multiple antibiotic susceptibility tests, completed on this lot of NR-19101, produced cefotaxime MICs between 1 μg/mL and 2 μg/mL, which indicates both sensitive and intermediate cefotaxime susceptibilities.

⁹100% identical to *S. pneumoniae*, strain GA13430 (GenBank: AIKP01000001.1)

¹⁰Purity 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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