Certificate of Analysis for NR-51859

Streptococcus pneumoniae, Strain EMC23F

Catalog No. NR-51859

Product Description:

Streptococcus pneumoniae (*S. pneumoniae*), EMC23F is a human wild-type clinical isolate that was found to be naturally resistant to trimethoprim. NR-51859 was produced by inoculation of BEI Resources seed lot 70029632 into Todd-Hewitt broth and grown for 1 day at 37°C in an aerobic atmosphere with 5% CO_2. 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_2 atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70062242 **Manufacturing Date: 26JUL2023**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology	Report results	Circular, flat, entire, smooth and gray (Figure 1)
Hemolysis 1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood	Report results	α-hemolytic
Motility (wet mount)	Report results	Non-motile
Biochemical tests		
Catalase	Negative	Negative
VITEK® MS (MALDI-TOF)	*S. pneumoniae*	*S. pneumoniae* (99.9%)
Antibiotic Susceptibility Profile[1]		
Etest® antibiotic test strips 1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar with 5% defibrinated sheep blood		
Trimethoprim	Report results	Resistant ≥ 32 µg/mL
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to *S. pneumoniae,* type strain (GenBank: AF003930.1)	100% sequence identity to *S. pneumoniae,* type strain (GenBank: AF003930.1)
Purity 7 days at 37°C in an aerobic atmosphere with 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability	Growth	Growth

[1]Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

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Figure 1: Colony Morphology

/Sonia Bjorum Brower/
Sonia Bjorum Brower 26 SEP 2023
Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

Support Provided by NIAID

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