Certificate of Analysis for NR-51851

Streptococcus pneumoniae, Strain OREP4

Catalog No. NR-51851

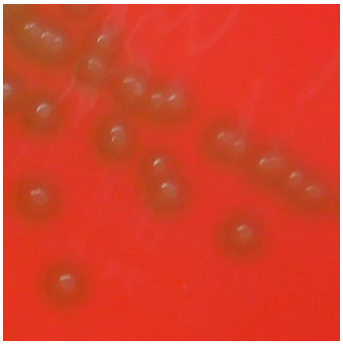
Product Description:

The antibiotic-resistant variant *Streptococcus pneumoniae (S. pneumoniae),* strain OREP4 was derived from human wild-type *S. pneumoniae*, strain DS2382-94 by natural selection, using increasing concentrations of optochin. NR-51851 was produced by the inoculation of BEI Resources seed lot 20090115 into Todd-Hewitt broth containing 0.5% (w/v) yeast extract, which was 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 to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70041375 **Manufacturing Date: 29JAN2021**

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	α-hemolytic	α-hemolytic
Motility (wet mount)	Report results	Non-motile
Biochemical characterization		
Catalase	Report results	Negative
VITEK® MS (MALDI-TOF)	*S. pneumoniae*	*S. pneumoniae* (99.9%)
Antibiotic Susceptibility Profile		
Hardydisk™ for differentiation of alpha-hemolytic *S. pneumoniae*		
Optochin	Resistant	Resistant (No zone)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to *S. pneumoniae* type strain (GenBank: NR_028665.1)	99.7% sequence identity to *S. pneumoniae* type strain (GenBank: NR_028665.1)
Purity (post-freeze)	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
8 days at 37°C in an aerobic atmosphere with 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood		
Viability (post-freeze)	Growth	Growth

Figure 1: Colony Morphology



BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

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/Heather Couch/
Heather Couch 16 FEB 2022
Program Manager or designee, ATCC Federal Solutions

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BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

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