

Streptococcus pneumoniae, Strain OREP7F

Catalog No. NR-51854

Product Description:

Streptococcus pneumoniae (*S. pneumoniae*), strain OREP7F was derived from human wild-type *S. pneumoniae*, strain DS2617-97 (serotype 7F) by natural selection using increasing concentrations of optochin. NR-51854 was produced by the inoculation of the deposited material into Todd-Hewitt broth containing 0.5% (w/v) yeast extract and grown for 1 day 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 for 1 day at 37°C in an aerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

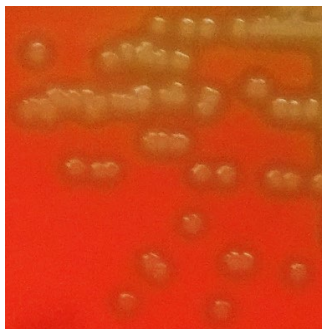
Lot: 70052225

Manufacturing Date: 28APR2022

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Hemolysis Motility (wet mount) Biochemical characterization Catalase VITEK® MS (MALDI-TOF)	Gram-positive cocci Report results α-hemolytic Report results Report results <i>S. pneumoniae</i> (≥ 89%)	Gram-positive cocci Circular, flat, entire, smooth and gray (Figure 1) α-hemolytic Non-motile Negative <i>S. pneumoniae</i> (99.9%)
Antibiotic Susceptibility Profile¹ Thermo Scientific™ Susceptibility Testing Disc 1 day at 35°C in an aerobic atmosphere with 5% CO ₂ on Mueller Hinton agar with 5% defibrinated sheep blood Optochin (Thermo Scientific™ DD0001T)	Report results	0 mm
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to <i>S. pneumoniae</i> type strain (GenBank: NR_028665.1)	99.7% sequence identity to <i>S. pneumoniae</i> type strain (GenBank: NR_028665.1)
Purity (post-freeze) 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 (post-freeze)	Growth	Growth

¹Zone of Inhibition; Interpretation Guideline: Burton, R. L. and M. H. Nahm. "Development and Validation of a Fourfold Multiplexed Opsonization Assay (MOPA4) for Pneumococcal Antibodies." *Clin. Vaccine Immunol.* 13 (2006): 1004-1009. PubMed: 16960111.

Figure 1: Colony Morphology



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10 OCT 2022

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