b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-53529

Streptococcus pneumoniae, Strain STREP2

Catalog No. NR-53529

Product Description:

Streptococcus pneumoniae (S. pneumoniae), strain STREP2 was derived from a human wild-type *S. pneumoniae* strain by natural selection using increasing concentrations of streptomycin. NR-53529 lot 70049546 was produced by the inoculation of BEI Resources seed lot 70037046 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 Todd-Hewitt agar containing 0.5% (w/v) yeast extract 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: 70049546 **Manufacturing Date: 12JAN2022**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology	Report results	Circular, convex, entire and smooth and translucent
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[1]		
Etest® antibiotic test strips 1 day at 35°C in an aerobic atmosphere with 5% CO_2 on Mueller Hinton agar with 5% sheep blood		
Streptomycin (bioMérieux 526840)	Report results	> 1024 µg per mL[2]
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to *S. pneumoniae* type strain (GenBank: NR_028665.1)	99.9% sequence identity to *S. pneumoniae* 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) 1 day at 37°C in an aerobic atmosphere with 5% CO_2 on Todd-Hewitt agar containing 0.5% (w/v) yeast extract	Growth	Growth

[1]Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)
[2]No Clinical & Laboratory Standards Institute (CLSI) interpretation of this antibiotic for *S. pneumoniae* is currently available.

/Heather Couch/
Heather Couch 11 MAR 2022
Program Manager or designee, ATCC Federal Solutions

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