

Certificate of Analysis for NR-51856

Streptococcus pneumoniae, Strain OREP18C

Catalog No. NR-51856

Product Description:

The antibiotic-resistant variant *Streptococcus pneumoniae* (*S. pneumoniae*), strain OREP18C was derived from human wild-type *S. pneumoniae*, strain GP116 by natural selection using increasing concentrations of optochin. NR-51856 was produced by the inoculation of BEI Resources seed lot 20090204 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% CO₂. 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% CO₂ to produce this lot.

Lot: 70037501 Manufacturing Date: 29JUL2020

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
1 day at 37°C in an aerobic atmosphere with 5% CO ₂		
on Tryptic Soy agar with 5% defibrinated sheep blood		
Colony morphology	Report results	Circular, low convex, entire,
1 day at 37°C in an aerobic atmosphere with 5% CO ₂		translucent and gray (Figure 1)
on Tryptic Soy agar with 5% defibrinated sheep blood		
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		
HardyDisk™ antibiotic susceptibility test		
1 day at 37°C in an aerobic atmosphere with 5% CO ₂		
on Tryptic Soy agar with 5% defibrinated sheep blood	Dan aut vaavilta	< C2
Optochin (Hardy Diagnostics Z7011)	Report results	≤ 6 mm ²
VITEK® (AST-GP74 card)	Dan aut vaavilta	Samaiting (5.000 control)
Benzylpenicillin Amoxicillin	Report results Report results	Sensitive (≤ 0.06 μg/mL) Sensitive (≤ 0.06 μg/mL)
Cefotaxime	l •	` ,
-	Report results	Sensitive (≤ 0.06 µg/mL)
Ceftriaxone	Report results	Sensitive (≤ 0.06 µg/mL)
Ertapenem	Report results	Sensitive (≤ 0.5 μg/mL)
Meropenem Levofloxacin	Report results	Sensitive (≤ 0.06 µg/mL)
Moxifloxacin	Report results Report results	Sensitive (1 μg/mL) Sensitive (≤ 0.25 μg/mL)
Ofloxacin	Report results	Sensitive (\$ 0.25 µg/mL)
	Report results	Sensitive (∠ μg/mL) Sensitive (≤ 0.25 μg/mL)
Erythromycin Telithromycin	Report results	Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 0.25 µg/mL)
Linezolid	<u> </u>	, , , , ,
	Report results	Sensitive (≤ 2 µg/mL)
Vancomycin Tetracycline	Report results Report results	Sensitive (≤ 1 μg/mL) Sensitive (≤ 1 μg/mL)
Chloramphenicol	Report results	Sensitive (≤ 1 µg/mL) Sensitive (≤ 2 µg/mL)
Trimethoprim/sulfamethoxazole	Report results	Sensitive (≤ 2 µg/mL) Sensitive (≤ 10 µg/mL)
	' '	` ' • '
Genotypic Analysis	≥ 99% sequence identity to	99.5% sequence identity to
Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	S. pneumoniae type strain (GenBank: NR_028665.1)	S. pneumoniae type strain (GenBank: NR_028665.1) ³
(- 1420 nase halls)	(Ochbank, NK_020003.1)	(Gendank, NR_020003.1)

BEI Resources www.beiresources.org E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898



Certificate of Analysis for NR-51856

TEST	SPECIFICATIONS	RESULTS
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 in Todd-Hewitt broth containing 0.5% (w/v) yeast extract	Growth	Growth

¹Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

Figure 1: Colony Morphology



/Heather Couch/ Heather Couch

04 FEB 2021

Program 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 by ATCC® 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.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898

²No Clinical & Laboratory Standards Institute (CLSI) interpretations of this antibiotic for *S. pneumoniae* are currently available.

³Also consistent with other *Streptococcus* species