

Certificate of Analysis for NR-48710

Streptococcus pyogenes, Strain ABC020056891

Catalog No. NR-48710

This reagent is the tangible property of the U.S. Government.

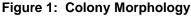
Product Description: *Streptococcus pyogenes* (*S. pyogenes*), strain ABC020056891 was isolated between 2010 and 2012 from the blood of a human with bacteremia, streptococcal toxic shock syndrome or necrotizing fasciitis in the USA. *S. pyogenes*, strain ABC020056891 was deposited as a Group A *Streptococcus* (GAS) strain.

Lot¹: 70001707 Manufacturing Date: 20JAN2017

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology ²	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Hemolysis ³	Report results	β-hemolytic
Motility (wet mount)	Report results	Non-motile
Biochemical tests:	·	
Catalase	Negative	Negative
VITEK® MS (MALDI-TOF)	Consistent with S. pyogenes	S. pyogenes (99.9%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 850 base pairs)	≥ 99% sequence identity to S. pyogenes, strain ABC020056891 (GenBank: JJHU01000002.1)	100% sequence identity to S. pyogenes, strain ABC020056891 (GenBank: JJHU01000002.1)
Purity (post-freeze) ⁴	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze) ²	Growth	Growth

¹NR-48710 was produced by inoculation of the deposited material into Tryptic Soy broth and incubated for 1 day at 37°C in an aerobic atmosphere with 5% CO₂. Broth inoculum was added to Tryptic Soy agar kolles, which were grown for 1 day at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

⁴Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.





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²1 day at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar

³1 day at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood



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Date: 24 MAY 2017

Signature:

BEI Resources Authentication

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