Certificate of Analysis for NR-48702

Streptococcus pyogenes, Strain ABC020063118

Catalog No. NR-48702

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

Product Description:

Streptococcus pyogenes (S. pyogenes), strain ABC020063118 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 ABC020063118 was deposited as a Group A *Streptococcus* (GAS) strain. NR-48702 was produced by inoculation of BEI Resources seed lot 70001692 into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere with 5% CO_2. Broth inoculum was added to Tryptic Soy agar 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: 70062652 Manufacturing Date: 11AUG2023

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Hemolysis 1 day at 37°C in an aerobic atmosphere with 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood	β-hemolytic	β-hemolytic
Motility (wet mount)	Report results	Non-motile
Catalase	Negative	Negative
VITEK® MS (MALDI-TOF)	*S. pyogenes*	*S. pyogenes* (99.9%)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1200 base pairs)	≥ 99% sequence identity to *S. pyogenes*, strain ABC020063118 (GenBank: ATXR01000029.1)	100% sequence identity to *S. pyogenes*, strain ABC020063118 (GenBank: ATXR01000029.1)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with 5% CO_2 on Tryptic Soy agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

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/Sonia Bjorum Brower/
Sonia Bjorum Brower 23 OCT 2022
Technical 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 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.

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