

***Streptococcus pyogenes*, Strain ABC020053369****Catalog No. NR-48728**

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**Product Description:** *Streptococcus pyogenes* (*S. pyogenes*), strain ABC020053369 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 ABC020053369 was deposited as a Group A *Streptococcus* (GAS) strain.

**Lot<sup>1</sup>: 70001753****Manufacturing Date: 19JAN2017**

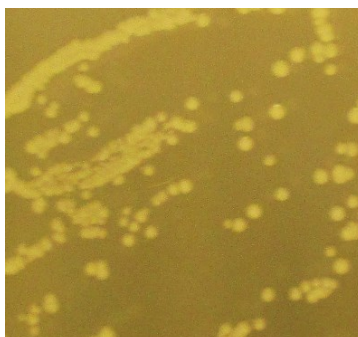
TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup>  Hemolysis <sup>3</sup> Motility (wet mount) Biochemical tests: Catalase VITEK <sup>®</sup> MS (MALDI-TOF)	Gram-positive cocci Report results  Report results Report results  Negative Consistent with <i>S. pyogenes</i>	Gram-positive cocci Circular, low convex, entire, translucent and white (Figure 1) β-hemolytic Non-motile  Negative <i>S. pyogenes</i> (99.9%)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 790 base pairs)	≥ 99% sequence identity to <i>S. pyogenes</i> type strain (GenBank: ATXR01000029.1)	100% sequence identity to <i>S. pyogenes</i> type strain (GenBank: ATXR01000029.1)
<b>Purity (post-freeze)<sup>4</sup></b>	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>NR-48728 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% CO<sub>2</sub>. 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<sub>2</sub> to produce this lot.

<sup>2</sup>1 day at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Tryptic Soy agar

<sup>3</sup>1 day at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood

<sup>4</sup>Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood.

**Figure 1: Colony Morphology**

**Date:** 11 MAY 2017**Signature:**

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