

***Streptococcus pyogenes*, Strain MGAS27061 (Genotype emm89)**

**Catalog No. NR-50285**

**Product Description:** *Streptococcus pyogenes* (*S. pyogenes*), strain MGAS27061, was isolated in 2008 from a case of human invasive infection in Georgia, USA. *S. pyogenes*, strain MGAS27061 has been molecularly characterized as a clade 3 *emm89*, Group A *Streptococcus* strain.

**Lot<sup>1</sup>: 2212**

**Manufacturing Date: 03NOV2016**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup>  Hemolysis on blood agar <sup>3</sup> Motility (wet mount) Biochemical tests: Catalase VITEK® MS (MALDI-TOF)	Gram-positive cocci Report results  Report results Report results  Negative Consistent with <i>S. pyogenes</i>	Gram-positive cocci Circular, convex, entire, smooth and cream (Figure 1) β-hemolytic Non-motile  Negative <i>S. pyogenes</i> (99.9%)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 770 base pairs)	≥ 99% sequence identity to <i>S. pyogenes</i> , strain MGAS27061 (GenBank: CP013840.1)	100% sequence identity to <i>S. pyogenes</i> , strain MGAS27061 (GenBank: CP013840.1)
<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-50285 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:** 15 MAR 2017

**Signature:**



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