

***Streptococcus pyogenes*, Strain MGAS11027 (Genotype *emm89*)**

Catalog No. NR-33707

Product Description: *Streptococcus pyogenes* (*S. pyogenes*), strain MGAS11027 was isolated in 2002 from the throat of a patient with an uncomplicated pharyngitis infection in Texas, USA. *S. pyogenes*, strain MGAS11027 has been molecularly characterized as a clade 3 *emm89*, Group A *Streptococcus* strain.

Lot¹: 2214

Manufacturing Date: 18NOV2016

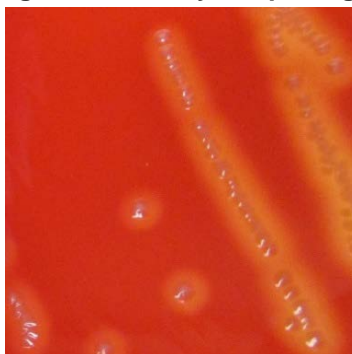
TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Hemolysis on blood agar ² Motility (wet mount) Biochemical tests: Catalase VITEK [®] MS (MALDI-TOF)	Gram-positive cocci Report results Report results Non-motile Negative Consistent with <i>S. pyogenes</i>	Gram-positive cocci Circular, low convex, entire, smooth and cream (Figure 1) β-hemolytic Non-motile Negative <i>S. pyogenes</i> (99.9%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 790 base pairs)	≥ 99% sequence identity to <i>S. pyogenes</i> , strain MGAS11027 (GenBank: CP013838.1)	99.9% sequence identity to <i>S. pyogenes</i> , strain MGAS11027 (GenBank: CP013838.1)
Purity (post-freeze)³	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹NR-33707 was produced by inoculation of the deposited material into Tryptic Soy broth. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood plates, which were grown for 1 day at 37°C in an aerobic atmosphere, and preserved in Tryptic Soy broth with 10% glycerol. The cryopreserved material was thawed and used to inoculate Tryptic Soy broth, which 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.

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

³Purity of this lot was assessed for 8 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



Date: 14 MAR 2017

Signature:



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