

***Streptococcus pyogenes*, Strain MGAS1882**

**Catalog No. NR-33708**

**Product Description:** *Streptococcus pyogenes* (*S. pyogenes*), strain MGAS1882, serotype M59, is a historic strain isolated in the 1970s from a human case of post-streptococcal glomerulonephritis in the United States.

**Lot<sup>1</sup>: 61600056**

**Manufacturing Date: 13MAR2013**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup>  Motility <sup>3</sup> Hemolysis on blood agar <sup>2</sup> Biochemical tests: Analytical profile index (API <sup>®</sup> 20 STREP) Catalase	Report results Report results  Non-motile β-hemolytic  Consistent with <i>S. pyogenes</i> Negative	Gram-positive cocci Circular, raised, entire and white (Figure 1) Non-motile β-hemolytic  Consistent with <i>S. pyogenes</i> Negative
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 940 base pairs) Riboprinter <sup>®</sup> Microbial Characterization System	Consistent with <i>S. pyogenes</i>  Consistent with <i>S. pyogenes</i>	Consistent with <i>S. pyogenes</i> <sup>4</sup>  Consistent with <i>S. pyogenes</i>
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>*S. pyogenes*, strain MGAS1882 was deposited by James M. Musser, M.D., Ph.D., Co-Director, Department of Pathology, The Methodist Hospital Research Institute, Houston, Texas. NR-33708 was produced by inoculation of the deposited material into Tryptic Soy broth and incubated for 24 hours at 37°C in an aerobic atmosphere. Broth inoculum was added to kolles which were grown 24 hours at 37°C to produce this lot.

<sup>2</sup>24 hours at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% sheep blood

<sup>3</sup>24 hours at 37°C in an aerobic atmosphere on motility test media with triphenyltetrazolium chloride (TTC).

<sup>4</sup>≥ 99% identical to *S. pyogenes*, strain MGAS1882 (GenBank: CP003121)

**Figure 1**



**Date:** 26 AUG 2013

**Signature:**

**Title:**

Technical Manager, BEI Authentication or designee

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