

## Certificate of Analysis for NR-33708

## Streptococcus pyogenes, Strain MGAS1882

Catalog No. NR-33708

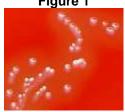
**Product Description:** *Streptococcus pyogenes* (*S. pyogenes*), strain MGAS1882, serotype M59, is a historic strain isolated in the 1970s from a human case of post-streptococcal glomerulonephritis in the United States.

Lot<sup>1</sup>: 61600056 Manufacturing Date: 13MAR2013

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

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.

Figure 1



Date: 26 AUG 2013 Signa

**Title:** Technical Manager, BEI Authentication or designee

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