**Product Information Sheet for NR-15271**

**Streptococcus pyogenes, Strain MGAS9254 (Genotype emm3)**

**Catalog No. NR-15271**

For research use only. Not for human use.

**Contributor:**
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**Manufacturer:**
BEI Resources

**Product Description:**
- **Bacteria Classification:** Streptococcaceae, Streptococcus
- **Species:** Streptococcus pyogenes
- **Strain:** MGAS9254
- **Serotype:** M3
- **Original Source:** Streptococcus pyogenes (S. pyogenes), strain MGAS9254 was isolated in April 2000 from a case of human peritonitis in Ontario, Canada.1,2
- **Comments:** S. pyogenes, strain MGAS9254 has been molecularly characterized as a genotype emm3, Group A Streptococcus strain.1,2

S. pyogenes is a non-motile, non-sporulating, Gram-positive, β-hemolytic coccus found in normal human nasopharyngeal flora and is one of the most frequent pathogens of humans. It is estimated that between 5-15% of normal individuals harbor S. pyogenes without signs of disease. Mild infections may present as pharyngitis (strep throat), scarlet fever (rash), impetigo (superficial skin) or cellulitis (deep skin). Invasive, toxigenic infections can result in necrotizing fasciitis, myositis and streptococcal toxic shock syndrome.2,6

Group A Streptococcus (GAS) strains are categorized by the variations in nucleotide sequence of the emm gene that encodes the M protein. Serotype M3 strains are associated with a disproportionately large number of severe invasive infections and deaths.2,6

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth supplemented with 10% glycerol.

**Note:** If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**
NR-15271 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freezethaw cycles should be avoided.

**Growth Conditions:**
- **Media:**
  - Tryptic Soy broth or Todd-Hewitt broth or equivalent
  - Tryptic Soy agar or Tryptic Soy agar with 5% defibrinated sheep blood or Todd-Hewitt agar or equivalent
- **Incubation:**
  - Temperature: 37°C
  - Atmosphere: Aerobic with 5% CO2
- **Propagation:**
  1. Keep vial frozen until ready for use, then thaw.
  2. Transfer the entire thawed aliquot into a single tube of broth.
  3. Use several drops of the suspension to inoculate an agar slant and/or plate.
  4. Incubate the tube, slant and/or plate at 37°C for 1 day.

**Citation:**
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Streptococcus pyogenes, Strain MGAS9254 (Genotype emm3), NR-15271.”

**Biosafety Level:** 2


**Disclaimers:**
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References:

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