**Streptococcus pyogenes, Strain ABC020059514**

**Catalog No. NR-48705**

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**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:** ABC020059514

**Original Source:** *Streptococcus pyogenes* (S. pyogenes), strain ABC020059514 was isolated between 2010 and 2012 from the blood of a human with bacteremia, streptococcal toxic shock syndrome or necrotizing fasciitis in the USA.¹

**Comments:** *S. pyogenes*, strain ABC020059514 was deposited as a Group A *Streptococcus* strain.¹ The complete genome of *S. pyogenes*, strain ABC020059514 is currently being sequenced at the Broad Institute.

*S. pyogenes* is a non-motile, non-spore-forming, 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

**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-48705 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. Freeze-thaw 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 ABC020059514, NR-48705."

**Biosafety Level:** 2


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References:

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