**Streptococcus agalactiae, Strain MNZ933**

**Catalog No. NR-43896**

For research use only. Not for use in humans.

**Contributor:**
Moon H. Nahm, M.D., Professor, Department of Pathology, University of Alabama at Birmingham, Birmingham, Alabama, USA

**Manufacturer:**
BEI Resources

**Product Description:**
- **Bacteria Classification:** Streptococcaceae, Streptococcus
- **Species:** Streptococcus agalactiae
- **Serogroup:** Group B
- **Strain:** MNZ933
- **Original Source:** Streptococcus agalactiae (S. agalactiae), strain MNZ933 (serotype II) was isolated from human blood.\(^1\)

**Comments:** A protocol to detect opsonic antibodies to Group B Streptococcus (GBS) capsular polysaccharide in rabbit antisera using a singleplex assay format has been developed and is available. An opsonophagocytic killing assay that was developed for GBS is also available in this document.\(^2\)

**Streptococcus agalactiae** is a Gram-positive cocci characterized by the presence of Group B Lancefield antigen, and is known as Group B Streptococcus (GBS). GBS causes illness in people of all ages. In newborns, GBS most commonly causes sepsis, pneumonia, and sometimes meningitis.\(^3\) The most common problems caused by GBS in adults are bloodstream infections, pneumonia, skin and soft-tissue infections, and bone and joint infections.\(^3\) In addition to the presence of the Group B Lancefield antigen, GBS is also characterized by its ability to hydrolyze sodium hippurate and sensitivity to bile. S. agalactiae's polysaccharide antiphagocytic capsule is its main virulence factor.\(^5\) Genomes from multiple serotypes have been sequenced for comparative analyses.\(^6,7\)

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in Todd-Hewitt broth containing 0.5% (w/v) yeast extract supplemented with 15% glycerol.

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

**Packaging/Storage:**
NR-43896 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. Freezer-thaw cycles should be avoided.

**Growth Conditions:**
- **Media:** Tryptic Soy broth or Todd-Hewitt broth containing 0.5% (w/v) yeast extract or equivalent
- **Incubation:** Tryptic Soy agar or Tryptic Soy agar with 5% defibrinated sheep blood or Todd-Hewitt agar or equivalent
- **Temperature:** 37°C
- **Atmosphere:** Aerobic with 5% CO\(_2\)

**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 agalactiae, Strain MNZ933, NR-43896."

**Biosafety Level:** 2


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References:
1. Nahm, M. H., Personal Communication.

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