**Salmonella enterica** subsp. **enterica**, Strain E1093

**Catalog No. NR-171**
(Derived from ATCC® 9239™)

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**Contributor:**
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**Product Description:**
- **Bacteria Classification:** Enterobacteriaceae, Salmonella
- **Species:** Salmonella enterica
- **Subspecies:** Salmonella enterica subsp. enterica\(^{1,2}\) (formerly Salmonella choleraesuis subsp. choleraesuis)
- **Serovar:** Oranienburg
- **Antigenic Properties:** 6,7,m,t:-
- **Strain:** E1093

**Original Source:** Salmonella enterica (S. enterica) subsp. enterica serovar Oranienburg, strain E1093 came from an outbreak of food poisoning at an Illinois State Hospital.

**Comment:** S. enterica subsp. enterica, strain E1093 was deposited at ATCC\(^{©}\) in 1943 by Dr. O. Felsenfeld from the State of Illinois Department of Public Welfare, Chicago, IL.

S. enterica are a Gram-negative, rod-shaped, flagellated bacterial species that are divided into six subspecies (I, II, IIIa, IIIb, IV, VI). Only subspecies I, subsp. enterica, is considered of clinical relevance and may result in (non-typhoidal) salmonellosis, one of the most common foodborne diseases with an estimated 2 million cases that occur in the United States every year.\(^{3}\) Pathogenicity results from a variety of virulence factors found in plasmids, prophages, and five pathogenicity islands which allow these organisms to colonize and infect host organisms.\(^{4,5}\)

S. enterica subsp. enterica serovar Oranienburg is increasingly becoming a cause of nontyphoidal salmonellosis outbreaks. Serovar Oranienburg infection is unique in that it is not limited to gastroenteritis and can progress to sepsis, often followed by focal infections of the gall bladder, endothelial surfaces, soft tissues, and bones.\(^{6}\)

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in 0.5X 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-171 was packaged aseptically, in screw-capped plastic 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 equivalent
- **Incubation:** Temperature: 37°C
- **Atmosphere:** Aerobic

**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 tubes and plate at 37°C for 24 hours.

**Citation:**
Acknow ledge ment for publications should read “The following reagent was obtained through the NIH Biodefense and Emerging Infectious Research Resources Repository, NIAID, NIH: Salmonella enterica subsp. enterica, Strain E1093, NR-171.”

**Biosafety Level:** 2


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References:

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