Salmonella enterica subsp. enterica, Strain CIP 60.62

Catalog No. NR-169
(Derived from ATCC® 43971™)

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Contributor: ATCC®

Product Description:

**Bacteria Classification:** Enterobacteriaceae, Salmonella

**Species:** Salmonella enterica

**Subspecies:** Salmonella enterica subsp. enterica\(^1,2\) (formerly Salmonella typhimurium, Salmonella choleraesuis subsp. choleraesuis subtype Typhimurium)

**Serotype:** B

**Serovar:** Typhimurium

**Type Strain:** CIP 60.62

**Original Source:** Salmonella enterica (S. enterica) subsp. enterica, strain CIP 60.62 was derived from the wild strain LT2 (H₂S producing) and deposited in the Collection of the Institut Pasteur by M. Demerec in 1960.\(^3\)

**Comments:** S. enterica subsp. enterica, strain CIP 60.62 was deposited at ATCC\(^4\) in 1988 by Y. Cerisier from the Institut Pasteur, Paris, France.

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 food-borne diseases with an estimated 2 million cases that occur in the United States every year.\(^5\) 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.\(^5,6\)

S. enterica subsp. enterica serovar Typhimurium (formerly Salmonella typhimurium) is a major cause of gastroenteritis. Septic shock resulting in part from lipopolysaccharide (LPS) is a primary complication associated with serovar Typhimurium infection.\(^1\)

The complete genome sequence of several strains of S. enterica subsp. enterica serovar Typhimurium are in progress [strain DT104 (Definitive Type 104; a multidrug resistant strain), strain SL1344 (a genetically marked subtype of a calf-virulent isolate), and strain TR7095 (a wild-type strain)] and strain LT2 has been completed (GenBank: AE006468).\(^8\)

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-169 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

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:

Acknowledgment for publications should read “The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: *Salmonella enterica* subsp. *enterica*, Strain CIP 60.62, NR-169.”

Biosafety Level: 2


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References:

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