**Product Information Sheet for NR-4293**

**Salmonella enterica subsp. enterica, 2004 Pennsylvania Tomato Outbreak, Serovar Anatum, Isolate 3**

**Catalog No. NR-4293**

**For research use only. Not for human use.**

**Contributor:**
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**Product Description:**

**Bacteria Classification:** Enterobacteriaceae, Salmonella
**Species:** Salmonella enterica
**Subspecies:** Salmonella enterica subsp. enterica
**Serogroup:** E1
**Serovar:** Anatum
**Isolate:** 3

**Original Source:** Human stool from a patient with diarrhea during the 2004 Salmonella outbreak in Pennsylvania

**Comments:** The 2004 Salmonella outbreak was linked to the consumption of Roma tomatoes from deli counters of a chain of 302 gas station convenience stores in Pennsylvania and four nearby states. Multiple serotypes of Salmonella enterica were implicated.

**Salmonella enterica (S. enterica)** are Gram-negative, rod-shaped, flagellated bacteria. The species is divided into six subspecies (I, II, Illa, Illb, IV, VI) where only subspecies I, subsp. enterica, is considered of clinical relevance. Salmonellosis (non-typhoidal), due to the greater than 1500 serovars of S. enterica subsp. enterica, is one of the most common food-borne diseases with an estimated 2 million cases that occur in the United States every year. 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.

S. enterica subsp. enterica serovar Anatum (formerly *Salmonella anatum*) is found in domestic and wild animals and is generally spread to humans via consumption of contaminated water or food resulting in gastroenteritis.

**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-4293 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen and should be stored at -70°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
- Tryptic Soy Agar 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:**

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, 2004 Pennsylvania Tomato Outbreak, Serovar Anatum, Isolate 3, NR-4293."

**Biosafety Level:** 2


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