**Product Information Sheet for NR-4319**

**Salmonella enterica subsp. enterica,**
2004 Pennsylvania Tomato Outbreak, Serovar Thompson, Isolate 1

**Catalog No. NR-4319**

For research use only. Not for human use.

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

<table>
<thead>
<tr>
<th>Original Source</th>
<th>Media</th>
<th>Temperature</th>
<th>Incubation</th>
<th>Propagation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human stool from a patient with diarrhea during the 2004 <em>Salmonella</em> outbreak in Pennsylvania</td>
<td>Tryptic Soy Broth or equivalent</td>
<td>37°C</td>
<td>24 hours</td>
<td>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.</td>
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</tbody>
</table>

**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.3,4

*Salmonella enterica* (S. enterica) are Gram-negative, rod-shaped, flagellated bacteria. The species is divided into six subspecies (I, II, IIIa, IIIb, 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.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.6

*S. enterica* subsp. *enterica* serovar Thompson (formerly *Salmonella thompson*) 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-4319 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.

**Biosafety Level:**

2


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