

***Salmonella enterica* subsp. *enterica*, Strain 14028s *phoPQ*::kan<sup>r</sup> (Serovar Typhimurium)**

**Catalog No. NR-12158**

**Product Description:** *Salmonella enterica* (*S. enterica*) subsp. *enterica*, strain 14028s *phoPQ*::kan<sup>r</sup> (serovar Typhimurium) was derived from strain 14028s. The *phoPQ*::kan<sup>r</sup> mutant was produced by creating a PCR product with *phoPQ* homologous sequences at the 5' and 3' ends of a linear fragment containing a kanamycin resistance cassette. *S. enterica* subsp. *enterica*, strain 14028s was transformed, and insertion of the *kan* cassette in place of *phoPQ* was confirmed by PCR.

**Lot<sup>1</sup>: 61693052**

**Manufacturing Date: 25APR2013**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup>  Analytical profile index (API <sup>®</sup> 20 E) <sup>3</sup>	Report results Report results  Consistent with <i>Salmonella</i> spp.	Gram-negative rod Circular, convex, entire and gray (Figure 1) Consistent with <i>Salmonella</i> spp.
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1450 base pairs) Riboprinter <sup>®</sup> Microbial Characterization System	Consistent with <i>S. enterica</i>  Consistent with <i>S. enterica</i>	Consistent with <i>S. enterica</i> subsp. <i>enterica</i> Consistent with <i>S. enterica</i> subsp. <i>enterica</i> serovar Typhimurium
<b>Serogroup Analysis</b>	Report results	Serogroup B <sup>4</sup>
<b>Presence of Kanamycin Resistance Marker<sup>5</sup></b>	Confirmed	Confirmed
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>NR-12158 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 24 hours in an aerobic atmosphere. Broth inoculum was added to kolles which was grown 24 hours at 37°C and aerobic atmosphere to produce this lot.

<sup>2</sup>24 hours at 37°C and aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

<sup>3</sup>Additional serological tests are required to determine *Salmonella* species using API<sup>®</sup> 20 E

<sup>4</sup>Serogroup B contains serotype Typhimurium in addition to other serotypes

<sup>5</sup>24 hours at 37°C and aerobic atmosphere on Luria-Bertani agar with 60 mg/mL kanamycin

**Figure 1**



**Date:** 17 OCT 2013

**Signature:**

**Title:** Technical Manager, BEI Authentication or designee

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