

***Salmonella enterica* subsp. *enterica*, Strain 14028s  $\Delta$ *smpB* (Serovar Typhimurium)**

**Catalog No. NR-12178**

**Product Description:** *Salmonella enterica* (*S. enterica*) subsp. *enterica*, strain 14028s  $\Delta$ *smpB* (serovar Typhimurium) was derived from strain 14028s. The  $\Delta$ *smpB* mutant was produced by creating a PCR product with *smpB* 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 *smpB* was confirmed by PCR. The final non-polar deletions were constructed by elimination of the *kan* cassette.

**Lot<sup>1</sup>: 61723940**

**Manufacturing Date: 17MAY2013**

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>	Gram-negative rod Report results  Consistent with <i>Salmonella</i> spp.	Gram-negative rod Circular, convex, entire, smooth and cream (Figure 1) Consistent with <i>Salmonella</i> spp.
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 930 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>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

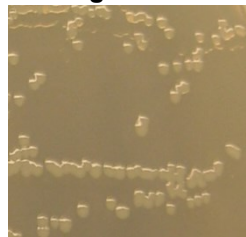
<sup>1</sup>NR-12178 was produced by inoculation of the deposited material into Nutrient broth and grown 24 hours in an aerobic atmosphere at 37°C. Broth inoculum was added to kolles which was grown 24 hours at 37°C and aerobic atmosphere to produce this lot.

<sup>2</sup>24 hours at 37°C and aerobic atmosphere on Nutrient agar

<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

**Figure 1**



**Date:** 28 AUG 2013

**Signature:**

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

ATCC<sup>®</sup>, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC<sup>®</sup>'s knowledge.

ATCC<sup>®</sup> is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

