

***Salmonella enterica* subsp. *enterica*, Strain 14028s  $\Delta$ *mig-14* (Serovar Typhimurium)**

**Catalog No. NR-40643**

**Product Description:** *Salmonella enterica* (*S. enterica*) subsp. *enterica*, strain 14028s  $\Delta$ *mig-14* (serovar Typhimurium) was derived from strain 14028s. The  $\Delta$ *mig-14* (STM14:3354, STM:2782) mutant was produced by creating a PCR product with *mig-14* 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 was confirmed by PCR. The final non-polar deletions were completed by elimination of the *kan* cassette.

**Lot<sup>1</sup>: 62202699**

**Manufacturing Date: 08JAN2014**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup>  Motility (wet mount) Analytical profile index (API <sup>®</sup> 20 E) <sup>3</sup>	Gram-negative rod Report results  Report results Consistent with <i>Salmonella</i> spp.	Gram-negative rod Circular, convex, entire, smooth and cream (Figure 1)  Motile Consistent with <i>Salmonella</i> spp.
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 870 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 Verification</b>	Serogroup B	Serogroup B <sup>4,5</sup>
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>NR-40643 was produced by inoculation of the deposited material into LB broth (supplemented with 1% Bacto-tryptone, 0.5% yeast extract and 1% sodium chloride) and grown 24 hours in an aerobic atmosphere at 37°C. Broth inoculum was added to an LB agar (supplemented with 1% Bacto-tryptone, 0.5% yeast extract and 1% sodium chloride) kolle which was grown 22 hours at 37°C and aerobic atmosphere to produce this lot. Purity of this lot was accessed for 7 days under propagation conditions.

<sup>2</sup>24 hours at 37°C and aerobic atmosphere on to LB agar (supplemented with 1% Bacto-tryptone, 0.5% yeast extract and 1% sodium chloride)

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

<sup>4</sup>No other serogroups were assayed

<sup>5</sup>Serogroup B contains serovar Typhimurium in addition to other serovars

**Figure 1**



**Date:** 28 FEB 2014

**Signature:**

**Title:**

Technical Manager, BEI Authentication or designee

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