

***Francisella tularensis* subsp. *novicida*, Strain SC4**

**Catalog No. NR-576**

**Product Description:** *Francisella tularensis* (*F. tularensis*) subsp. *novicida* is a Gram-negative, facultative intracellular bacterium which displays a moderate degree of human virulence. *F. tularensis* subsp. *novicida*, strain SC4 is a transposon mutant of the wild-type strain U112, with a distinct lipopolysaccharide (LPS) phenotype.

**Lot<sup>1</sup>: 4067729**

**Manufacturing Date: 16MAR2005**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup>  Hemolysis Motility X- and V-factor requirements Biochemical tests Catalase Oxidase Urease Sucrose Indole Hydrogen sulfide production Nitrate Glucose Maltose	Gram-negative coccobacillus Report results  Non-hemolytic Non-motile Negative  Positive Negative Negative Positive Report results Report results Report results Report results Report results	Gram-negative coccobacillus Circular, convex, entire, gray, and glistening Non-hemolytic Non-motile Negative  Positive Negative Negative Positive Negative Positive Negative Positive Negative
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 500 bp)	Consistent with <i>F. tularensis</i> subsp. <i>novicida</i>	Consistent with <i>F. tularensis</i> subsp. <i>novicida</i> <sup>3</sup>
<b>Viability (post-freeze)<sup>2</sup></b>	Growth on agar	Growth on agar

<sup>1</sup>*F. tularensis* subsp. *novicida*, strain SC4 was deposited by Francis E. Nano, Ph.D., Department of Biochemistry and Microbiology, University of Victoria, Victoria, British Columbia, Canada. NR-576 was prepared by broth/agar culture of the deposited material.

<sup>2</sup>24 hours at 37°C and aerobic atmosphere with 5% CO<sub>2</sub> on Difco™ Cystine Heart Agar (BD 247100) plus 5% defibrinated rabbit blood

<sup>3</sup>Also consistent with other *F. tularensis* subspecies

**Date:** 02 JAN 2009

**Signature:** Signature on File

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

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