

## *Francisella tularensis* subsp. *novicida*, Strain JL12

**Catalog No. NR-583**

**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 JL12 is a *pdpD* mutant of the wild-type strain U112, in which the *pdpD* gene region has been replaced with an erythromycin resistance cassette.

**Lot<sup>1</sup>: 4067738**

**Manufacturing Date: 18MAR2005**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup> Hemolysis X- and V-factor requirements Biochemical tests Catalase Oxidase Urease Sucrose Hydrogen sulfide production Nitrate Glucose Maltose Glycerol	Gram-negative coccobacillus Report results Non-hemolytic Negative  Positive Negative Negative Positive Report results Report results Report results Report results Report results	Gram-negative coccobacillus Circular, convex, entire and gray Non-hemolytic Negative  Positive <b>Pending</b> Negative Positive Positive Negative Positive Negative Positive
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 480 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 JL12 was deposited by Francis E. Nano, Ph.D., Department of Biochemistry and Microbiology, University of Victoria, Victoria, British Columbia, Canada. NR-583 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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