

***Francisella tularensis* subsp. *novicida*, Strain NZ304-2**

Catalog No. NR-584

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 NZ304-2 is a transposon mutant of the wild-type strain U112, in which the *pdpA* gene region has been replaced with a TnMax2 transposon

Lot¹: 4067739

Manufacturing Date: 18MAR2005

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Hemolysis X- and V-factor requirements Biochemical tests Catalase Oxidase Urease Sucrose Indole 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 Report results	Gram-negative coccobacillus Circular, convex, entire and gray Non-hemolytic Negative Positive Pending Negative Positive Negative Positive Negative Positive Positive Positive
Genotypic Analysis 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> ³
Viability (post-freeze)²	Growth on agar	Growth on agar

¹*F. tularensis* subsp. *novicida*, strain NZ304-2 was deposited by Francis E. Nano, Ph.D., Department of Biochemistry and Microbiology, University of Victoria, Victoria, British Columbia, Canada. NR-584 was prepared by broth/agar culture of the deposited material.

²24 hours at 37°C and aerobic atmosphere with 5% CO₂ on Difco™ Cystine Heart Agar (BD 247100) plus 5% defibrinated rabbit blood

³Also 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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