

***Francisella tularensis* subsp. *novicida*, Strain CG21**

Catalog No. NR-579

Product Description: *Francisella tularensis* (*F. tularensis*) subsp. *novicida* is a Gram-negative, facultative intracellular bacterium which displays a moderate degree of human virulence.

Lot¹: 4067734

Manufacturing Date: 14MAR2005

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² 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, and glistening Non-hemolytic Non-motile Negative Positive Negative Negative Positive Negative Positive Negative Positive Negative
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 490 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 CG21 was deposited by Francis E. Nano, Ph.D., Department of Biochemistry and Microbiology, University of Victoria, Victoria, British Columbia, Canada. NR-579 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: 25 JUL 2007

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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