

Francisella tularensis subsp. *holarctica*, Strain LVSr

Catalog No. NR-597

Product Description: *Francisella tularensis* (*F. tularensis*) subsp. *holarctica* is a small, non-motile, aerobic, pleomorphic, Gram-negative coccobacillus which displays a moderate degree of human virulence.

Lot¹: 4052896

Manufacturing Date: 17FEB2005

| TEST | SPECIFICATIONS | RESULTS |
|---|--|---|
| Phenotypic Analysis Cellular morphology Colony morphology ² Hemolysis Motility X- and V-factor requirements Biochemical tests Catalase Oxidase Urease Indole Hydrogen sulfide production Nitrate Glucose Maltose Sucrose Glycerol | Gram-negative coccobacillus Report results Non-hemolytic Non-motile Negative Positive Negative Negative Report results Report results Report results Report results Report results Report results | Gram-negative coccobacillus Entire, mucoid, yellow-gray Non-hemolytic Non-motile Negative Positive Negative Negative Negative Positive Negative Positive Positive Negative Negative |
| Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 480 bp) | Consistent with <i>F. tularensis</i> subsp. <i>holarctica</i> | Consistent with <i>F. tularensis</i> subsp. <i>holarctica</i> ³ |
| Viability (post-freeze)² | Growth on agar | Growth on agar |

¹*F. tularensis* subsp. *holarctica*, strain LVSr was deposited by Francis E. Nano, Ph.D., Professor, Department of Biochemistry and Microbiology, University of Victoria, Victoria, British Columbia, Canada. NR-597 was prepared by broth/agar culture of the deposited material.

²24 hours at 37°C and aerobic atmosphere with 5% CO₂ on Cystine Heart Agar plus 5% defibrinated rabbit blood.

³Also consistent other *F. tularensis* subspecies.

Date: 18 SEP 2007

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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