

Francisella tularensis subsp. *holarctica*, Strain LVS (FSC155)

Catalog No. NR-646

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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: 4249830

Manufacturing Date²: 15JUN2005

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ³ Hemolysis 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 Negative Positive Negative Negative Report results Report results Report results Report results Report results Report results	Gram-negative coccobacillus Circular, convex, entire, gray, glistening Non-hemolytic Negative Positive Negative Negative Negative Positive Negative Positive Positive Negative Positive
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 470 bp)	Consistent with <i>F. tularensis</i> subsp. <i>holarctica</i>	Consistent with <i>F. tularensis</i> subsp. <i>holarctica</i> ⁴
Molecular Subtyping⁵ by PCR Amplification of Subspecies-Specific Sequence from Extracted DNA	~ 1250 bp amplicon (Type B)	~ 1250 bp amplicon (Type B)
Viability (post-freeze)³	Growth on agar	Growth on agar

¹*F. tularensis* subsp. *holarctica*, strain LVS was deposited by the Centers for Disease Control and Prevention, Division of Vector-Borne Infectious Diseases, Fort Collins, Colorado. The deposited material was prepared by broth (Brain Heart Infusion) culture of a single colony isolated from the CDC Reference Collection stock. NR-646 was prepared by broth/agar culture of the deposited material.

²Note: The manufacturing date indicated on the vial is incorrect.

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

⁴Also consistent other *F. tularensis* subspecies.

⁵Petersen, J. M., et al. "Laboratory Analysis of Tularemia in Wild-Trapped, Commercially Traded Prairie Dogs, Texas, 2002." *Emerg. Infect. Dis.* 10 (2004): 419-425. PubMed: 15109407.

Date: 23 FEB 2007

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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