

Genomic DNA from *Francisella tularensis* subsp. *holarctica*, Strain LVSG

Catalog No. NR-3014

Product Description: Genomic DNA was isolated from a preparation of *Francisella tularensis* (*F. tularensis*) subsp. *holarctica*, strain LVSG.

Lot¹: 7513124

Manufacturing Date: 19JUL2005

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1320 bp)	Consistent with <i>F. tularensis</i> subsp. <i>holarctica</i>	Consistent with <i>F. tularensis</i> subsp. <i>holarctica</i> ²
Molecular Subtyping by PCR Amplification³	Type B (subsp. <i>holarctica</i>)	Type B (subsp. <i>holarctica</i>)
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen[®] Measurement	4 to 6 µg in 25 to 100 µL per vial	4.0 µg in 45 µL per vial (90 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene Molecular subtyping ³	~ 1500 bp amplicon ~ 1250 bp amplicon (Type B)	~ 1500 bp amplicon ~ 1250 bp amplicon (Type B)
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.8
Bacterial Inactivation 10% of total yield plated on CHA with 5% rabbit blood ^{4,5}	No viable bacteria detected	No viable bacteria detected

¹The bacterial preparation used for extraction of genomic DNA was produced by culture of BEI Resources NR-585 on Cystine Heart Agar plus 5% defibrinated rabbit blood. After incubation for 24 hours at 37°C and aerobic atmosphere with 5% CO₂, genomic DNA was extracted using proprietary technology.

²Also consistent other *F. tularensis* subspecies.

³Petersen, 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.

⁴Cystine Heart Agar plus defibrinated rabbit blood; incubated for 7 days at 37°C and aerobic atmosphere with 5% CO₂.

⁵An extraction procedure was used that has been shown to consistently inactivate 100% of gram negative bacteria.

Date: 02 JAN 2007

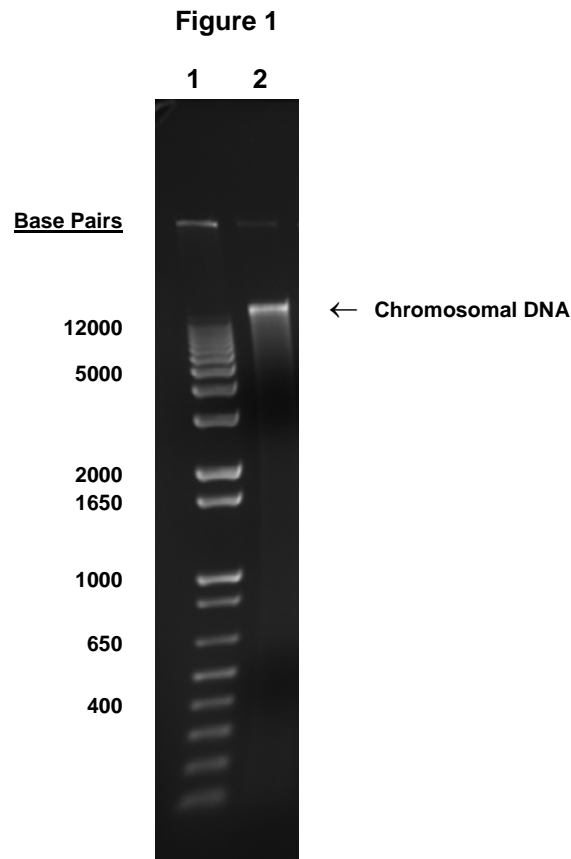
Signature: Signature on File

Title: Technical Manager, BEI Authentication

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Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-3014