

Genomic DNA from *Francisella tularensis* subsp. *tularensis*, Strain SCHU S4 (FSC237)

Catalog No. NR-3015

This reagent is the property of the U.S. Government.

Product Description: Genomic DNA was isolated from a preparation of *Francisella tularensis* (*F. tularensis*) subsp. *tularensis*, strain SCHU S4 (FSC237).

Lot¹: 7513125

Manufacturing Date: 19JUL2005

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene	Identical to BEI Resources NR-643 Consistent with <i>F. tularensis</i> subsp. <i>tularensis</i>	Identical to BEI Resources NR-643 (~ 360 bp) Consistent with <i>F. tularensis</i> subsp. <i>tularensis</i> (~ 1340 bp) ²
Molecular Subtyping by PCR Amplification³	Type A (subsp. <i>tularensis</i>)	Type A (subsp. <i>tularensis</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	4.1 µg in 60 µL per vial (69 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene Molecular subtyping ³	~ 1500 bp amplicon ~ 390 bp amplicon (Type A)	~ 1500 bp amplicon ~ 390 bp amplicon (Type A)
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

¹*F. tularensis* subsp. *tularensis*, strain SCHU S4 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. The bacterial preparation used for extraction of genomic DNA was produced by propagation of the CDC deposited material 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

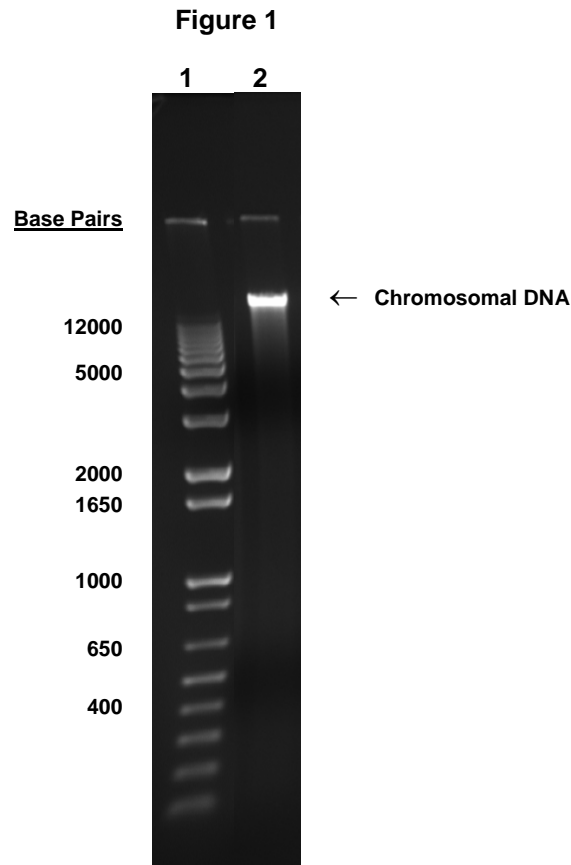
Signature: Signature on File

Title: Technical Manager, BEI Authentication

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Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-3015