

Genomic DNA from *Francisella tularensis* subsp. *tularensis*, Strain MA00-2987

Catalog No. NR-3017

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Product Description: Genomic DNA was isolated from a preparation of *Francisella tularensis* (*F. tularensis*) subsp. *tularensis*, strain MA00-2987.

Lot¹: 7513127

Manufacturing Date: 19JUL2005

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1300 bp)	Consistent with <i>F. tularensis</i> subsp. <i>tularensis</i>	Consistent with <i>F. tularensis</i> subsp. <i>tularensis</i> ²
Molecular Subtyping by PCR Amplification ³	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	4.3 µg in 65 µL per vial (67 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)
OD ₂₆₀ /OD ₂₈₀ Ratio	1.7 to 1.9	1.9
Bacterial Inactivation 10% of total yield plated on agar ⁴	No viable bacteria detected	No viable bacteria detected

¹*F. tularensis* subsp. *tularensis*, strain MA00-2987 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 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. 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.

⁴An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative bacteria.

Date: 24 MAY 2012

Signature: 

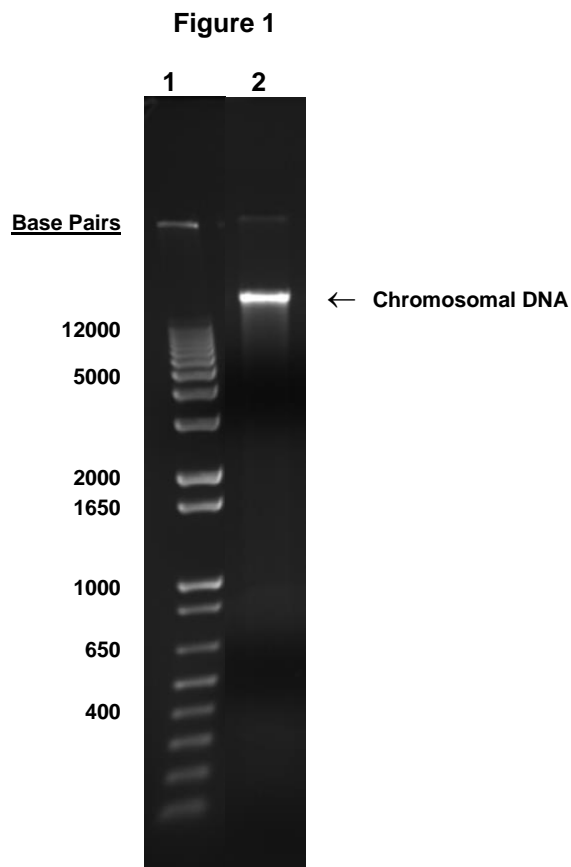
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Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-3017