

Genomic DNA from *Francisella tularensis* subsp. *novicida*, Strain JMB1

Catalog No. NR-3029

Product Description: Genomic DNA was isolated from a preparation of *Francisella tularensis* (*F. tularensis*) subsp. *novicida*, strain JMB1.

Lot¹: 7562882

Manufacturing Date: 14SEP2006

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1420 bp)	Identical to GenBank CP000439 Consistent with <i>F. tularensis</i> subsp. <i>novicida</i>	Identical to GenBank CP000439 Consistent with <i>F. tularensis</i> subsp. <i>novicida</i> ²
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	5.3 µg in 42 µL per vial (126 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene Molecular subtyping ^{3,4}	~ 1500 bp amplicon ~ 390 bp amplicon (non-type B)	~ 1500 bp amplicon ~ 390 bp amplicon (non-type B)
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.9
Bacterial Inactivation 10% of total yield plated on Trypticase Soy Agar with 5% sheep blood ^{5,6}	No viable bacteria detected	No viable bacteria detected

¹Genomic DNA from *F. tularensis* subsp. *novicida*, strain JMB1 was extracted from NR-574 (Lot: 4059343) on Difco™ Cystine Heart Agar (BD 247100) with 5% defibrinated rabbit blood. After incubation for 26 hours at 37°C in an aerobic atmosphere with 5% CO₂, genomic DNA was extracted using proprietary technology.

²Also consistent with 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.

⁴Kugeler, K. J., et al. "Real-time PCR for *Francisella tularensis* Types A and B." *Emerg. Infect. Dis.* 12 (2006): 1799–1801. PubMed: 17283646.

⁵Incubated for 7 days at 37°C and aerobic atmosphere with 5% CO₂.

⁶An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative bacteria.

Date: 24 JUL 2007

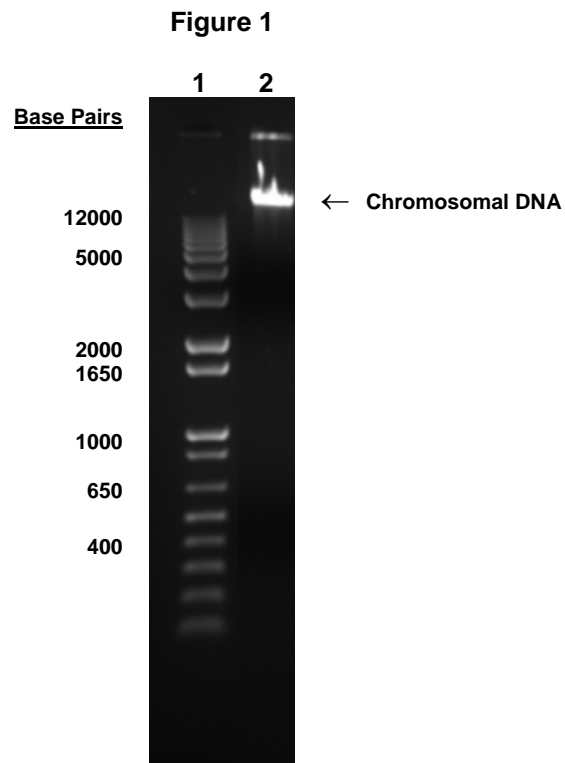
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Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-3029