

**Genomic DNA from *Francisella tularensis* subsp. *novicida*, Strain  $\Delta$ IgIA**

**Catalog No. NR-13356**

**For research use only. Not for human use.**

**Contributor:**

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**Product Description:**

Genomic DNA was isolated from a preparation of *Francisella tularensis* subsp. *novicida*, strain  $\Delta$ IgIA.

*Francisella tularensis* subsp. *novicida*, strain  $\Delta$ IgIA is a transposon mutant of the wild-type strain U112, in which the *igIA* gene region has been replaced with a mini-Tn5 insert, rendering it resistant to kanamycin.<sup>1</sup>

The subspecies designation of strain  $\Delta$ IgIA has been confirmed by PCR amplification of an approximately 3300 base pair subspecies specific sequence (RD-1; Region of Difference-1)<sup>2</sup> from extracted DNA. NR-13356 has been qualified for PCR applications by amplification of approximately 1500 bp of the 16S ribosomal RNA gene.

**Material Provided:**

Each vial contains 4 to 6  $\mu$ g of bacterial genomic DNA in TE buffer (10 mM Tris-HCl and 1 mM EDTA, pH ~ 7.4). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

**Packaging/Storage:**

NR-13356 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized. **Note: The strain designation on the vial label for Lot 58607115 should be  $\Delta$ IgIA**

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Genomic DNA from *Francisella tularensis* subsp. *novicida*, Strain  $\Delta$ IgIA, NR-13356."

**Biosafety Level: 1**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed.

Washington, DC: U.S. Government Printing Office, 2007; see [www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm).

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**References:**

1. Larson, C. L., W. Wicht, and W. L. Jellison. "A New Organism Resembling *P. tularensis* Isolated from Water." Public Health Rep. 70 (1955): 253-258. PubMed: 14357545.
2. Broekhuijsen, M., et al. "Genome-Wide DNA Microarray Analysis of *Francisella tularensis* Strains Demonstrates Extensive Genetic Conservation within the Species but Identifies Regions that are Unique to the Highly Virulent *F. tularensis* subsp. *tularensis*." J. Clin. Microbiol. 41 (2003): 2924-2931. PubMed: 12843022.

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