**Francisella tularensis** subsp. novicida, Strain ΔPdpB

**Catalog No. NR-9718**

For research use only. Not for human use.

**Contributor:**
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**Manufacturer:**
BEI Resources

**Product Description:**

**Bacteria Classification:** Francisellaceae, Francisella  
**Species:** Francisella tularensis subsp. novicida  
**Strain:** ΔPdpB (Note: The strain designation, ΔPdpB-2, on the vial is incorrect.)  
**Original Source:** Francisella tularensis (F. tularensis) subsp. novicida, strain ΔPdpB is a transposon mutant of the wild-type strain U112, in which the pdpB gene region has been replaced with a mini-Tn5 insert, rendering it resistant to kanamycin.¹

Francisella tularensis subsp. novicida, strain ΔPdpB is excluded from Select Agent status. Please see CDC Select Agent Program, Notification of Exclusion.

F. tularensis is one of the most infectious bacterial pathogens known and is the causative agent of the febrile zoonotic disease tularemia. The environmental reservoir of the bacterium is unknown, although most human cases result from the bite of a blood-feeding arthropod vector.²

F. tularensis subsp. novicida is a Gram-negative, facultative bacterium, which grows predominantly in macrophages when living in mammalian hosts.³ It is commonly used for studying F. tularensis pathogenesis since it is highly virulent in mice but has minor effects on humans.²

The subspecies designation of NR-9718 has been confirmed by PCR amplification of an approximately 3300 base pair subspecies specific sequence (RD-1; Region of Difference-1)⁴ from extracted DNA.

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in Brain Heart Infusion broth supplemented with 10% glycerol.

**Note:** If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**

NR-9718 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

**Growth Conditions:**

**Media:** Brain Heart Infusion or Tryptic Soy broth with 0.1% cysteine  
Tryptic Soy agar with 0.1% cysteine, Cystine Heart agar with 5% defibrinated rabbit blood or Chocolate agar (GC agar)

**Note:** NR-9718 can be grown in the presence of 15 µg/mL kanamycin.

**Incubation:**  
Temperature: 37°C  
Atmosphere: Aerobic

**Propagation:**

1. Keep vial frozen until ready for use; thaw slowly.  
2. Transfer the entire thawed aliquot into a single tube of broth.  
3. Use several drops of the suspension to inoculate an agar slant and/or plate.  
4. Incubate the tube, slant and/or plate at 37°C for 24 to 48 hours.

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Francisella tularensis subsp. novicida, Strain ΔPdpB, NR-9718."  

**Biosafety Level:** 2


**Disclaimers:**

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References:

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