Francisella tularensis subsp. novicida, Strain CG69

Catalog No. NR-581

For research use only. Not for human use.

Contributor:
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Product Description:
Bacteria Classification: Francisellaceae, Francisella
Agent: Francisella tularensis subsp. novicida
Strain: CG69
Comments: Francisella tularensis subsp. novicida, strain CG69 is a transposon mutant of wild-type strain U112, with diminished ability to grow in mouse macrophages. The partial DNA sequence flanking the transposon insertion points has been submitted (GenBank: AF384672).

Francisella tularensis (F. tularensis) is one of the most infectious bacterial pathogens known and is the causative agent of the febrile zoonotic disease tularemia. The natural reservoir of the bacterium is thought to be rodents, although most human cases result from the bite of a blood-feeding arthropod vector.

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

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Tryptic Soy Broth supplemented with 10% glycerol.

Packaging/Storage:
NR-581 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:
Trypticase Soy Agar or Broth with 0.1% cysteine
Cystine Heart Agar with 5% defibrinated rabbit blood
Incubation:
Temperature: 37°C
Atmosphere: Aerobic with 5% CO₂
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 tubes and plate at 37°C for 24–48 hours.

Citation:
Acknowledgment for publications should read “The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Francisella tularensis subsp. novicida, Strain CG69, NR-581.”

Biosafety Level: 2

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References:

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