Francisella tularensis subsp. novicida, Strain NZ304-2

Catalog No. NR-584

For research use only. Not for human use.

Contributor:
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Product Description:
Bacteria Classification: Francisellaceae, Francisella
Species: Francisella tularensis subsp. novicida
Strain: NZ304-2
Comments: Francisella tularensis subsp. novicida, strain NZ304-2 is a transposon mutant of the wild-type strain U112, in which the pdpA gene region has been replaced with a TnMax2 transposon. This pdpA mutant is avirulent in mice and unable to grow in macrophages.

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 the agent of the febrile zoonotic disease tularemia. The natural infectious bacterial pathogens are known and is the causative agent of the febrile zoonotic disease tularemia.

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Francisella tularensis (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.

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

Packaging/Storage:
NR-584 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:
Tryptic 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 to 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 NZ304-2, NR-584.”

Biosafety Level: 2

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References:

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