Francisella tularensis subsp. holarctica, Strain LVSR

Catalog No. NR-597

For research use only. Not for human use.

Contributor:
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Product Description:
Bacteria Classification: Francisellaceae, Francisella
Agent: Francisella tularensis subsp. holarctica
Biotype/Biovar: Type B
Strain: LVSR (Live Vaccine Strain Rough)
Source: Francisella tularensis (F. tularensis) subsp. holarctica, strain LVSR is a capsule negative variant that was obtained from acridine orange treatment of F. tularensis subsp. holarctica, strain LVS.

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.

F. tularensis subsp. holarctica is a small, non-motile, aerobic, pleomorphic, Gram-negative coccobacillus which displays a moderate degree of human virulence. Very little is known about the virulence mechanisms of F. tularensis, but growth in macrophages is central to the bacterium’s ability to cause disease.

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-597 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 Broth or Tryptic Soy Broth
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. holarctica, Strain LVSR, NR-597.”

Biosafety Level: 2

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References:

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