Product Information Sheet for NR-2627

Lipopolysaccharide, from *Francisella tularensis* subsp. *holarctica*, Strain LVS

Catalog No. NR-2627

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: LVS (Live Vaccine Strain; FSC155)

Lipopolysaccharide (LPS) was prepared from *Francisella tularensis* subsp. *holarctica*, LVS by a modified hot aqueous phenol extraction method. The water soluble dialyzed extract was digested with ribonuclease, deoxyribonuclease and proteinase K followed by differential centrifugation. The precipitated LPS gel was dissolved in distilled water and subjected to repeated ultracentifugations. The final LPS gel was dissolved in distilled water, aliquoted and lyophilized.

Material Provided:
Each vial contains approximately 5 mg of lyophilized LPS.

Packaging/Storage:
NR-2627 was packaged aseptically in glass serum vials. The product is shipped at room temperature and should be stored at room temperature or 4°C upon arrival.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Lipopolysaccharide, from *Francisella tularensis* subsp. *holarctica*, Strain LVS, NR-2627."

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.

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References:

1. Conlan, J. W., et al. "Mice Intradermally-Inoculated with the Intact Lipopolysaccharide, but not the Lipid A or O-Chain, from *Francisella tularensis* LVS Rapidly Acquire Varying Degrees of Enhanced Resistance Against Systemic or Aerogenic Challenge with Virulent Strains of the Pathogen." Microb. Pathog. 34 (2003): 39–45. PubMed: 12620383.
2. Conlan, J. W., et al. "Mice Vaccinated With the O-Antigen of *Francisella tularensis* LVS Lipopolysaccharide Conjugated to Bovine Serum Albumin Develop Varying Degrees of Protective Immunity Against Systemic or Aerosol Challenge with Virulent Type A and Type B Strains of the Pathogen." Vaccine 20 (2002): 3465–3471. PubMed: 12297391.

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