

***Yersinia pestis* F1-V Fusion Protein, Dimer-Enriched Antigen,
Recombinant from *Escherichia coli***

Catalog No. NR-2563

This reagent is the tangible property of the U.S. Government.

Product Description: Recombinant *Yersinia pestis* (*Y. pestis*) F1-V fusion protein, dimer-enriched antigen was purified from *Escherichia coli* and depleted of DNA and endotoxin.

Lot: L0508004

Manufacturing Date: 10AUG2005

TEST	SPECIFICATIONS	RESULTS
Appearance	Colorless, clear to slightly opalescent	Colorless, clear to slightly opalescent
SDS-PAGE (Reduced; Coomassie Blue)	Major band at ~ 51 ± 5 kDa	Major band at ~ 51 kDa
Identification by Western Blot Antibody to F1 protein Antibody to V protein	Major band at ~ 51 ± 5 kDa Major band at ~ 51 ± 5 kDa	Major band at ~ 51 kDa Major band at ~ 51 kDa
SDS-PAGE (Reduced; Silver stain)	Report results	Major band at ~ 51 kDa Trace dimer band at ~ 102 kDa Characteristic pattern below ~ 51 kDa
SDS-PAGE (Reduced; SYPRO Ruby stain, Fluorometric Scan)	≥ 95% fluorescence intensity at ~ 51 kDa	≥ 98% fluorescence intensity at ~ 51 kDa
Size-Exclusion HPLC Monomer Dimer Multimer	Report results ≥ 45% Report results	27.1% 48.4% 24.5%
Concentration by Spectrophotometer at OD₂₈₀	1.5 mg/mL ± 0.15 mg/mL	1.58 mg/mL
Functional Activity Western Blot Antibody to F1 protein Antibody to V protein	Reactive Reactive	Reactive Reactive
Bioburden	0 colony-forming units/mL	0 colony-forming units/mL
Sterility	0.2 µm filter sterilized	0.2 µm filter sterilized
Endotoxin Content (Limulus Amoebocyte Lysate assay)	≤ 5 EU/mL	1.06 EU/mL
Host Cell Genomic DNA (qPCR) <i>Escherichia coli</i>	≤ 100 pg/mL	0.8 pg/mL
pH (post-vialing)	9.9 ± 0.4	8.7 ¹

¹The pH of this lot decreased after vialing, likely due to solvation of atmospheric carbon dioxide.

Date: 24 APR 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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