

***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: L0604017**

**Manufacturing Date: 01JUN2006**

TEST	SPECIFICATIONS	RESULTS
<b>Appearance</b>	Colorless, clear to slightly opalescent	Colorless, clear
<b>SDS-PAGE (Reduced; Coomassie Blue)</b>	Major band at ~ 51 ± 5 kDa	Major band at ~ 51 kDa
<b>Identification and Functional Activity by Western Blot</b> 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
<b>SDS-PAGE (Reduced; Silver stain)</b>	Report results	Major band at ~ 51 kDa Trace dimer band at ~ 98 kDa
<b>SDS-PAGE (Reduced; SYPRO Ruby Stain, Fluorometric Scan)</b>	≥ 95% fluorescent intensity at ~ 51 kDa	97.4% fluorescent intensity at ~ 51 kDa
<b>Size-Exclusion HPLC</b> Dimer	≥ 45%	71.8%
<b>Functional Activity</b> Western Blot Antibody to F1 protein Antibody to V protein	Reactive Reactive	Reactive Reactive
<b>Concentration by Spectrophotometer at OD<sub>280</sub></b>	≥ 1.35 mg/mL <sup>1</sup>	1.68 mg/mL
<b>Bioburden</b>	No growth	No growth
<b>Sterility</b>	0.2 µm filter sterilized	0.2 µm filter sterilized
<b>Endotoxin Content (Limulus Amoebocyte Lysate assay)</b>	≤ 5 EU/mL	< 0.56 EU/mL
<b>Host Cell Genomic DNA (qPCR)</b> <i>Escherichia coli</i>	≤ 100 pg/mL	0.35 pg/mL
<b>pH (post-vialing)</b>	9.9 ± 0.4	9.7

<sup>1</sup>Manufacturing target concentration is 1.5 mg/mL

**Date:** 07 OCT 2008

**Signature:** Signature on File

**Title:** Technical Manager, BEI Authentication or designee

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