

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

Catalog No. NR-4524

Product Description: *Yersinia pestis* (*Y. pestis*) recombinant F1-V fusion protein was expressed in *Escherichia coli* and purified by conventional chromatography.

Lot: 2060185

Manufacturing Date: 16JUN2006

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear to slightly turbid, colorless liquid that may contain fine amorphous particles or aggregates	Clear, colorless liquid containing fine amorphous particles
Identification by Western Blot Antibody to F1-V protein	Major band at ~ 53 kDa	Major band at ~ 53 kDa
LDS-PAGE	Major band at ~ 53 kDa	Major band at ~ 53 kDa
Purity by RP-HPLC Percent area of peak at 215 nm	Report result	99.3 %
Concentration by Spectrophotometer at OD₂₈₀	0.3 mg/mL to 3.0 mg/mL	2.1 mg/mL
pH (post-vialing)	7.0 to 7.8	7.5
pI	Report result	~ 5.3
Conductivity	Report result	15.77 mS/cm
Residual <i>E. coli</i> DNA by Southern Blot	< 100 pg/mg protein	19 pg/mg protein
Residual Host Cell Protein by Western Blot	≤ 3 %	≤ 1 %
Residual Guanidine by HPLC	< 3 ppm	0.22 ppm
Residual Kanamycin by HPLC	< 15 µg/mL	< 0.258 µg/mL
Residual Urea by Quantitative ELISA	Report result	1522 ppb
Residual IPTG by HPLC	Report result	< 200 ppb
Residual Dithiothreitol by HPLC	Report result	< 100 ppb
Residual Pluronic L-61 Poloxamer by LC/MS	Report result	< 2.5 ppm
Endotoxin Content Limulus Amoebocyte Lysate assay, USP<85>	≤ 100 EU/mg protein	6.0 EU/mg protein
Sterility by Immersion (21 CFR 610.12)	No growth	No growth

Date: 13 JUN 2007

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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