

SARS-CoV Envelope (E) Protein, Recombinant from *Escherichia coli*

Catalog No. NR-4284

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Product Description:

The SARS-CoV E-SUMO fusion protein containing an N-terminal histidine tag was expressed in *Escherichia coli* and purified by nickel affinity, ion exchange and size exclusion chromatography. After the fusion was cleaved by the SUMO protease, the SUMO tag and the SUMO protease (both histidine-tagged) were subtracted from the SARS-CoV E protein by nickel affinity chromatography.¹

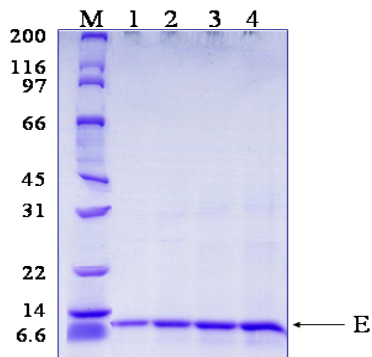
Lot: 7714483

Manufacturing Date: 20DEC2006

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE	Report results	~ 8360 Da > 95% pure (see Figure 1)
Protein Content (BioRad Bradford Assay) ²	Report results	0.1 mg/vial
Endotoxin Content (Limulus Amoebocyte Lysate assay)	Report results	< 500 EU/mg

¹LifeSensors Inc., Malvern, PA.

²BSA was used as a standard.



Purified SARS-CoV E protein was electrophoresed on a 4-20% SDS-polyacrylamide gel and stained with Coomassie blue.

Since E protein is hydrophobic, the buffer for analysis by SDS-PAGE should be at pH 11 and should contain: 5 M urea, 1 M thiourea, 1 mM DTT, 0.5% CHAPS, 100 mM sodium carbonate and 25 mM Tris-HCl.

Lanes: M: Molecular weight markers in kDa; 1: 2 µg, 2: 4 µg, 3: 6 µg and 4: 8 µg of E protein.

Date: 23 MAR 2007

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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