

ESAT-6 Recombinant Protein Reference Standard**Catalog No. NR-14868.1**

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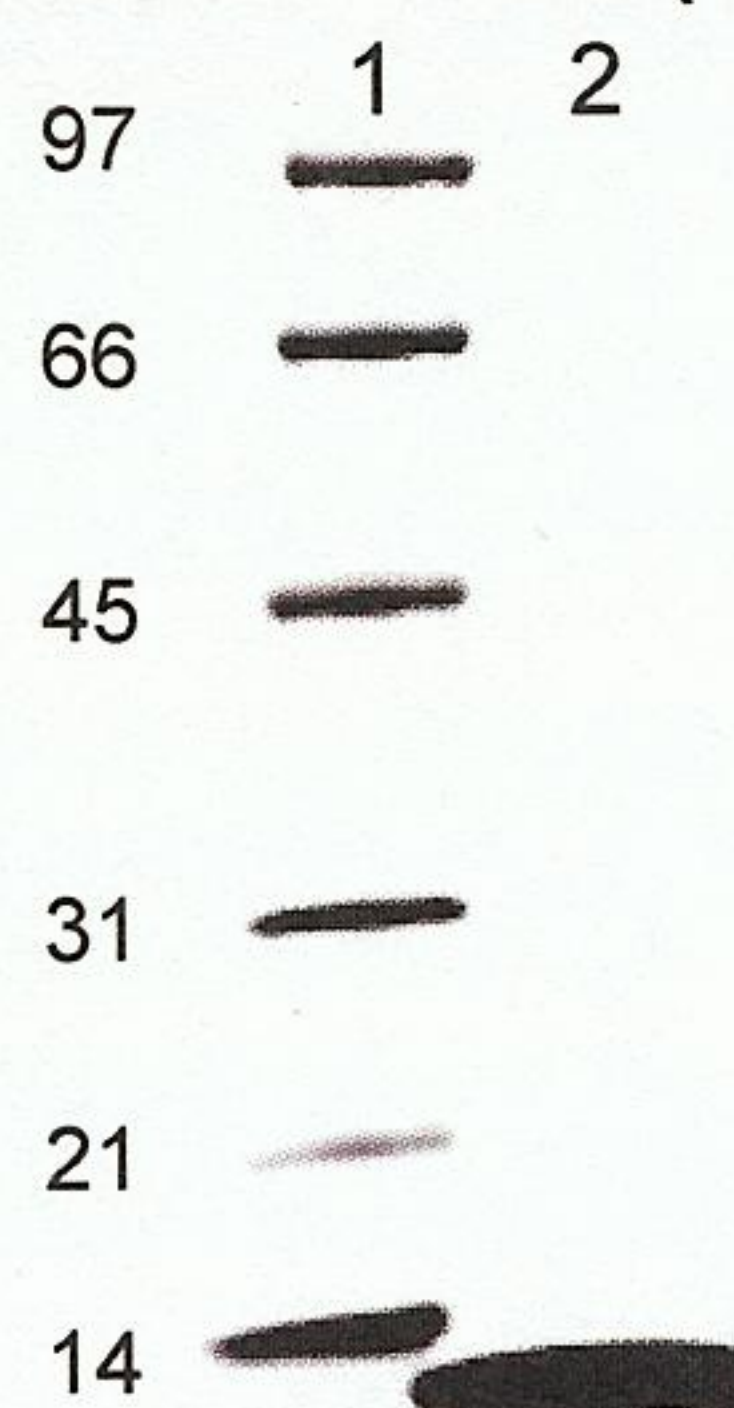
Product Description: NR-14868.1 is a recombinant form of the early secretory antigenic target protein, ESAT-6. The protein sequence consists of amino acid residues 1 to 103 including a hexahistidine tag at the C-terminus. The recombinant protein was expressed in *Escherichia coli* and purified using standard chromatographic techniques followed by endotoxin removal procedures. NR-14868.1 has a theoretical molecular weight of approximately 11 kDa.

Lot: 59083019**Manufacturing Date: 03MAR2008**

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE ¹	Dominant band of expected size (11 kDa)	Dominant band of ~ 11 kDa
SDS-PAGE ²	Dominant band of expected size (11 kDa)	Dominant band of ~ 11 kDa (Figure 1)
Concentration by Bicinchoninic Acid Protein Assay ¹	Report results	2 mg/mL
Functional Activity by Western Blot Analysis ¹ Rabbit polyclonal antibody to Esat6	Reactive	Reactive

¹QC testing was performed by Colorado State University (CSU) under the TB Vaccine Testing and Research Materials Contract (NIH) on the bulk material (CSU Lot 08.rEC.2.21.a.Esat6).

²Performed by BEI Resources on the rehydrated bulk material prior to aliquoting and lyophilization.

Figure 1: SDS-PAGE (4-20%) of NR-14868.1

Lane 1: BioRad Low Range Unstained Natural Standards (Cat. No. 161-0304)

Lane 2: 40 µg of NR-14868.1

Date: February 19, 2010 **Signature:** Heather Conner
Title: Technical Manager, BEI Authentication or designee

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Quality Control

Lot Number: 08.rEC.3.21.a.Esat6

Performed Endotoxin Removal? yes

Endotoxin Contamination: 0.18ng/mg protein, verified by LAL assay

Purity confirmed by SDS-PAGE and Silver Staining (see below)

Identity confirmed by Western Blot: X or Mass Spectrometry: _____ (see below)

Antibody used for Western Blot: α -Esat6 rabbit polyclonal

