

**Shiga Toxin Type 2 Toxoid, Chemically Inactivated**

**Catalog No. NR-4675**

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

**Product Description:** Recombinant Shiga toxin type 2 (Stx2) was expressed in *Escherichia coli*, purified by affinity chromatography, and chemically inactivated with formaldehyde.

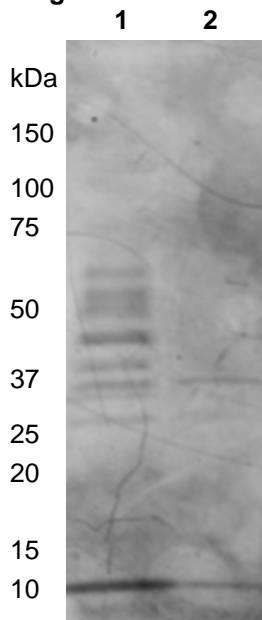
**Lot: 61145399**

**Manufacturing Date: 27MAR2013**

TEST	SPECIFICATIONS	RESULTS
<b>Appearance</b>	Clear and colorless	Clear and colorless
<b>SDS-PAGE (Figure 1)</b>	Protein band of interest represents > 95% of total staining intensity above background	Recombinant Stx2 (prior to treatment) represents > 95% of total staining intensity above background; formaldehyde treatment resulted in multiple cross-linked species
<b>SELDI-TOF Mass Spectrometry of Stx1 Toxoid (Complex of One Subunit A and Five Subunit Bs)</b>	Measured mass within 5% of expected mass (72279 daltons)	Measured mass (72911 daltons) within 0.9% of expected mass
<b>Protein Content by Bicinchoninic Acid Protein Assay</b>	Report results	8.4 µg per vial
<b>Concentration by Bicinchoninic Acid Protein Assay</b>	Report results	0.06 mg per mL
<b>Functional Activity by Western Blot<sup>1</sup> (Figure 2)</b> NR-4675 Carbonic anhydrase	Reactive Not reactive	Reactive Not reactive
<b>Cytotoxicity in Vero Cells (Figure 3)</b> NR-4675 Recombinant Stx1	Report results Report results	CD <sub>50</sub> > 1x10 <sup>-10</sup> M CD <sub>50</sub> ~ 1x10 <sup>-15</sup> M
<b>Sterility</b>	0.22 µm filter-sterilized	0.22 µm filter-sterilized
<b>Endotoxin</b>	< 10000 units per mg	< 357 units per mg

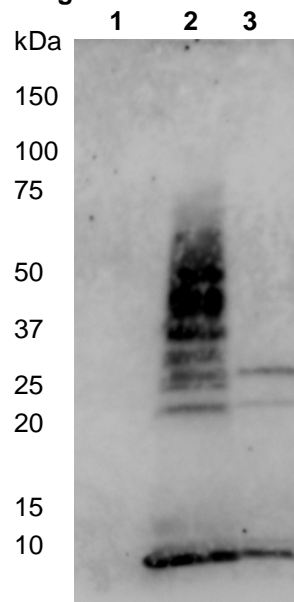
<sup>1</sup>Using anti-Stx1 polyclonal antibody produced in rabbit

Figure 1 - SDS-PAGE



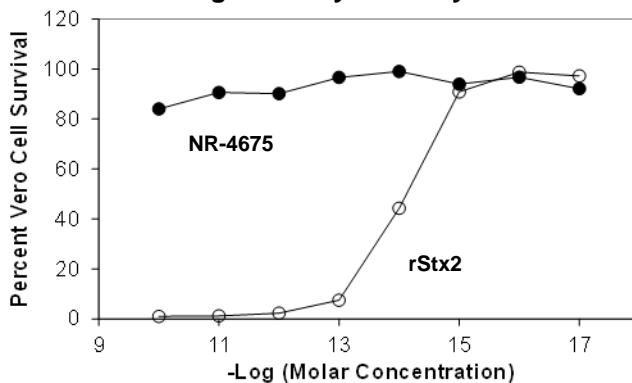
Lane 1: NR-4675  
Lane 2: Recombinant Stx1 (prior to formaldehyde treatment)

Figure 2 - Western Blot



Lane 1: Carbonic anhydrase  
Lane 2: NR-4675  
Lane 3: Recombinant Stx2

Figure 3: Cytotoxicity



Date: 04 MAR 2015

Signature: *Michael R. Gynther*

Title: Technical Manager, BEI Authentication or designee

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.  
You are authorized to use this product for research use only. It is not intended for human use.

