



**CERTIFICATE OF ANALYSIS**  
**SHIGA TOXIN 2 from *E. coli*, recombinant**  
**Lot #1622A1**

**Contents**

Each vial contains 10 µg of Shiga Toxin 2. When reconstituted with 100 µl of water, the protein is in 0.05M Tris, 0.1M NaCl and 0.1% Trehalose, pH 7.5. **Handle the product gently; mix by inversion, do not vortex. Read all handling information prior to reconstitution.**

**Concentration**

The protein concentration was determined by absorbance at 280 nm using Abs (0.1%) = 1.33. This value is calculated by ProtParam<sup>1</sup> using an algorithm based on the Edelhoch<sup>2</sup> method with modifications described in Pace et al<sup>3</sup>.

**Purity**

When examined on a 12% SDS-PAGE this product migrates as two major bands corresponding to the A and B polypeptides, with apparent molecular weights of 33 kDa and 8 kDa, respectively. The percent purity of this lot is >98%.

The endotoxin content, determined using a kinetic chromogenic LAL assay, is < 80 EU/mg.

**Activity**

This lot of Shiga Toxin 2 has been tested to confirm activity using a Vero cell cytotoxicity assay and was found to be acceptable. The toxin is also reactive by Western blot analysis using a monoclonal anti-Shiga Toxin 2A antibody.

**Toxicity**

Shiga Toxin 2 is very toxic and should be handled with extreme caution. Since the toxicity varies with the cell type, a range of concentrations should be tested to determine optimal concentrations for specific studies.

**Storage**

This product is supplied as a lyophilized powder which has been stoppered under vacuum. Store at 2-8°C.

(continued)

**Handling**

Good laboratory technique<sup>4</sup> should be employed in the safe handling of this product; refer to the SDS. Wear appropriate laboratory attire including lab coat, gloves and safety glasses. Nitrile gloves are recommended when handling lyophilized material.

This product is intended for research purposes by qualified personnel. It is not intended for use in humans or as a diagnostic agent. List Biological Laboratories, Inc., is not liable for any damages resulting from the misuse or handling of this product.

**FOR RESEARCH PURPOSES ONLY. NOT FOR USE IN HUMANS.**

**References**

1. [www.expasy.ch/tools/protparam-doc.html](http://www.expasy.ch/tools/protparam-doc.html)
2. Edelhoch, H. (1967) Biochemistry, 6: 1948-1954.
3. Pace, C.N., Vajdos, F., Fee, L., Grimsley, G., and Gray, T. (1995) Protein Sci, 4: 2411-2423.
4. Biosafety in Microbiological and Biomedical Laboratories. U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institutes of Health.

Production: TC Date: 4/20/17 Management: lls Date: 4/20/2017 QA/QC: klp Date: Apr 20, 2017

Made in U.S.A. 