

540 DIVISION STREET = CAMPBELL = CALIFORNIA 95008-6906 = USA 408-866-6363 = 800-726-3213 = FAX 408-866-6364 = EMAIL info@listlabs.com WEBSITE www.listlabs.com

Product #196A

CERTIFICATE OF ANALYSIS CFITC CONJUGATE LOT #1963A1



Preparation:

CFITC is prepared by conjugating the C-fragment of tetanus toxin to fluorescein isothiocyanate, isomer I (FITC) by a modification of the method of Wood *et al.*¹

Contents:

When reconstituted with 0.1 ml of sterile water, each vial contains 10 μ g of protein in 0.01 M sodium phosphate, pH 7.5.

Binding Ratio:

This lot contains 11.2 µg of FITC bound per mg of C-fragment, assuming an extinction coefficient at 493 nm of 85,200 M⁻¹cm⁻¹ for FITC.²

Packaging/Storage:

This product is provided as a lyophilized powder that has been sealed under vacuum. Store at 4°C prior to and following reconstitution. This product is light sensitive.

Activity:

The binding activity of tetanus toxin C-fragment to G_{T1b} gangliosides has been confirmed in a hemagglutination assay.³

Toxicity:

The C-fragment comprises the binding portion of intact tetanus toxin and is considered to be nontoxic.⁴ However, since the lethal dose of tetanus toxin in humans is <2.5 ng/kg,⁵ contamination of this product with less than 0.1% intact toxin could provide enough toxin to cause death in a nonvaccinated person. Use this product with the assumption that a small amount of contamination by intact tetanus toxin is present. See handling precautions on reverse side.

(continued)

Handling:

Good laboratory technique should be employed in the safe handling of this product. This requires observing the following practices:

- 1. PERSONS HANDLING THIS PRODUCT AND CONTAMINATED GLASSWARE SHOULD HAVE A CURRENT TETANUS VACCINATION, AND THEIR SERUM ANTITOXIN LEVEL SHOULD BE GREATER THAN 1.0 INTERNATIONAL UNIT PER MILLILITER.
- 2. This product is to be used by skilled personnel under the direction of a principal investigator in a laboratory setting only.
- 3. Wear appropriate laboratory attire including a lab coat, gloves and safety glasses.
- 4. Never remove the stopper prior to reconstitution and never work with the product in the powdered form. Always reconstitute it first.
- 5. Do not mouth pipette, inhale, ingest or allow to come into contact with open wounds. Wash thoroughly any area of the body which comes into contact with the product.
- 6. Avoid accidental autoinoculation by exercising extreme care when handling in conjunction with any injection device.
- 7. This product is intended for research purposes by qualified personnel only. 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 HUMAN USE.

References:

- 1. Wood, B.T., Thompson, S.H. and Goldstein, G. (1965) *J. Immun.* **95**, 225-229.
- 2. Moller, G., Gronowitz, E., Persson, U., Coutinho, A., Moller, E., Hammarstrom, L., and Smith, E. (1976) *J. Exp. Med.* **143**, 1429-1438.
- 3. Tayot, J.-L., Holmgren, J., Svennerholm, L., Lindblad, M. and Tardy, M. (1981) *Eur. J. Biochem.* **113**, 249-258.
- 4. Helting, T.B. and Zwisler, O. (1977) *J. Biol. Chem.* **252**, 187-193.
- 5. Gill, D.M. (1982) Microbiol. Rev. 46, 86-94.

Approved: KM	Date: 4 3 07	Approved:	IFK	Date: 4/3/07
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