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Product #106
Lot #10616A
Release Date: October 2001

**CERTIFICATE OF ANALYSIS
BFITC CONJUGATE
Lot #10616A**

Contents

When reconstituted with 0.4 mL of water, each vial contains 0.2 mg of protein in 0.01 M sodium phosphate, pH 7.5.

Concentration

Determined by the method of Bradford.¹

Preparation

BFITC is prepared by conjugating the B subunit of cholera toxin (cholera toxin B subunit) to fluorescein isothiocyanate, isomer I (FITC) by a modification of the method of Wood *et al.*²

Activity

When compared to a standard solution of B subunit at the same protein concentration, B-FITC exhibits comparable ganglioside binding activity in a hemagglutination assay. In immunodiffusion studies, B-FITC shows comparable immunoprecipitation to unconjugated standard when reacted against a specific antiserum to B subunit. Lot 10616A contains 14.3 μg of FITC bound per mg of cholera toxin B subunit (cholera toxin B subunit), assuming an extinction coefficient at 493 nm of 85,200 M^{-1}cm^2 for FITC.³

Packaging/Storage

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

Handling

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

1. Wear appropriate laboratory attire including a lab coat, gloves, and safety glasses.
2. 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.
3. Avoid accidental autoinoculation by exercising extreme care when handling in conjunction with any injection device.



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4. 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. Bradford, M.M. (1976) *Anal. Biochem.* **72**, 248-254.
2. Wood, B.T., Thompson, S.H. and Goldstein, G. (1965) *J. Immun.* **95**, 225-229.
3. Moller, G., Gronowitz, E., Persson, U., Coutinho, A., Moller, E., Hammarstrom, L. and Smith, E. (1976) *J. Exp. Med.* **143**, 1429-1438.

Quality Assurance:  Date: 16 DEC 2001