

## FITC Diluent

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### Intended Use

For In Vitro Diagnostic Use.

### Product Description

This product can be used as a diluent to prepare primary antibodies conjugated to FITC. It can be used with any primary antibody irrespective of its source of origin. FITC Diluent is specifically designed to stabilize primary antibodies and reduce nonspecific background staining observed during immunostaining.

### Summary and Explanation

In order to obtain optimal staining, correct dilution as well as selection of appropriate diluent is critical. Ionic strength, pH of the environment and the presence or absence of detergents can affect the binding as well as the stability of the primary antibody. The optimal pH together with stabilizing proteins in FITC Diluent ensures the maximum stability of primary antibodies. Our FITC Diluent contains optimal concentrations of sodium azide and detergents to prevent nonspecific binding and enable better penetration of primary antibodies. FITC Diluent is specifically designed for diluting primary antibodies for immunohistochemistry.

### Format

Clear liquid, ready to use buffer

### Volume/UOM

100 mL

### Storage and Handling

Store at 2-8°C. Do not use after expiration date printed on label.

### Preparation of Working Solutions

1. Bring the diluent to room temperature and mix thoroughly before use. No further preparation is required.

### Protocol Recommendations

1. Pour diluent in a clean glass container.
2. Add concentrated primary antibody directly to the diluent and mix thoroughly.
3. Diluted antibody is now ready to use.
4. Store at 2-8°C for further use.

### Quality Control

Refer to CLSI Quality Standards for Design and Implementation of Immunohistochemistry Assays; Approved Guideline-Second edition (I/LA28-A2). CLSI Wayne, PA, USA ([www.clsi.org](http://www.clsi.org)). 2011.

### Troubleshooting

Contact Diagnostic BioSystems Technical Support at (925) 484-3350, extension 2, [techsupport@dbiosys.com](mailto:techsupport@dbiosys.com) or your local distributor to report unusual staining results.

### Warranty

There are no warranties, expressed or implied, which extend beyond this description. Diagnostic BioSystems is not liable for property damage, personal injury, or economic loss caused by this product.

### Performance Characteristics

The protocols for a specific application can vary. These include, but are not limited to: fixation, heat-retrieval method, incubation times, tissue section thickness and detection kit used. Due to the superior sensitivity of these unique reagents, the recommended incubation times and titers listed are not applicable to other detection systems, as results may vary. The data sheet recommendations and protocols are based on exclusive use of Diagnostic BioSystems products. Ultimately, it is the responsibility of the investigator to determine optimal conditions. These products are tools that can be used for interpretation of morphological findings in conjunction with other diagnostic tests and pertinent clinical data by a qualified pathologist.

### Precautions

1. Wear disposable gloves when handling reagents.
2. Specimens, before and after fixation, and all materials exposed to them should be handled as if capable of transmitting infection and disposed of with proper precautions. Never pipette reagents by mouth and avoid contacting the skin and mucous membranes with reagents and specimens. If reagents or specimens come in contact with sensitive areas, wash with copious amounts of water.
3. Microbial contamination of reagents may result in an increase in nonspecific staining.
4. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.
5. Do not use reagent after the expiration date printed on the label.
6. The MSDS is available upon request.
7. Consult OSHA, federal, state or local regulations for disposal of any toxic substances.