

## Product Information

### **ANTI-MOUSE IGG (Fab SPECIFIC) FITC CONJUGATE**

Antibody developed in Goat  
Affinity Isolated Antigen Specific Antibody  
Adsorbed with Bovine, Horse and  
Human Serum Proteins

Product Number **F 4018**

#### **Product Description**

Antiserum is developed in goat using purified mouse IgG Fab fragment as the immunogen. Antibody is isolated from goat anti-mouse IgG antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to the Fab fragment of mouse IgG. Goat anti-mouse IgG is conjugated to FITC and then purified by gel filtration to remove free FITC. The antibody preparation is solid phase adsorbed with human serum proteins to ensure minimal cross reactivity in tissue or cell preparations. Solid phase adsorption with bovine and horse serum proteins ensures minimal cross reactivity with horse or fetal calf serum in hybridoma media.

Specificity for the Fab fragment of mouse IgG is determined by immunoelectrophoresis (IEP). The conjugate shows no reactivity with mouse IgG, Fc fragment, human, bovine, or horse serum.

Identity and purity of the antibody is established by immunoelectrophoresis, prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion versus anti-goat IgG and anti-goat whole serum result in single arcs of precipitation.

#### **Reagents**

The conjugate is provided as a solution in 0.01 M sodium phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

#### **Precautions and Disclaimer**

Due to the sodium azide content a material safety sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

#### **Storage/Stability**

For continuous use, store at 2-8 °C for up to one month. For extended storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

This goat antiserum was maintained at pH 5.0 for 40 minutes to meet USDA requirements.

#### **Product Profile**

1. A minimum dilution of 1:64 is determined in an indirect assay using Monoclonal Anti-Human  $\text{b}_2$ -Microglobulin (Product No. M 7398) incubated with human peripheral blood lymphocytes.
2. A minimum dilution of 1:200 is determined in an indirect assay using formalin-fixed, paraffin-embedded human tonsil and Monoclonal Anti-Human IgG (Product No. I 5885) as the primary antibody.

Working dilutions should be determined by titration assay. Due to differences in assay systems, these titers may not reflect the user's actual working dilution.

F/P Molar Ratio: 3-8

The F/P molar ratio of the FITC-antibody conjugate is determined spectrophotometrically as follows:  
The F/P molar ratio is determined spectrophotometrically as follows:

$$F = A_{496}/0.15 \quad P = \frac{A_{280} - (A_{496} \times 0.32)}{1.4}$$

$$\text{F/P Molar Ratio} = F/P \times 0.41$$

Where:

0.15 = The extinction coefficient of bound FITC at a concentration of 1 mg per ml at pH 7.2

0.32 = The fluorochrome absorbance correction factor (non-protein absorbance).

0.41 = The factor for conversion of fluorochrome to

protein ratios from weight to molar ratios.

Protein Concentration: Determined by absorbance at 280 nm and 495 nm ( $E_{280}^{1\%} = 14.0$ ,  $E_{495}^{1\%} = 15.0$ ).

PCS 4/02

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