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Product Information

**ANTI-MOUSE IgG (Fab SPECIFIC)
FITC CONJUGATE
Affinity Isolated Antigen Specific Antibody
Adsorbed with Human IgG**

Product No. **F 5262**

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 IgG to ensure minimal cross reactivity in tissue or cell preparations. 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.

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

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 results in single arcs of precipitation.

Product Profile

Protein Concentration = 2.0-5.5 mg/ml by absorbance at 280 nm and 495 nm ($E_{280}^{1\%} = 14.0$, $E_{495}^{1\%} = 15.0$).

A minimum dilution of 1:128 was determined in an indirect assay using Monoclonal Anti-Human β -2 Microglobulin (Sigma Product No. M 7398) incubated with human peripheral blood lymphocytes.

A minimum dilution of 1:150 was determined by an indirect assay using Monoclonal Anti-Human IgG

(Product No. I 5885) incubated with formalin-fixed, paraffin-embedded human tonsil slides.

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.

In an agar diffusion assay the conjugate produces a precipitation arc at a dilution of 1:32 versus a 1:80 dilution of normal mouse serum.

F/P Molar Ratio: 3.0 to 8.0

The F/P molar ratio is determined spectrophotometrically as follows:

$$F/P = \frac{A_{495} \times 1.4}{A_{280} - (0.36 \times A_{495})} \times 0.41$$

Where:

- 0.2 = The extinction coefficient of bound FITC at a concentration of 1 μ g/ml at pH 7.2.
- 0.36 = The fluorochrome absorbance correction factor (non-protein absorbance).
- 0.41 = The factor for conversion of fluorochrome to protein ratios from weight to molar ratios.

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

Storage

For continuous use, store at 2-8 °C for a maximum of 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.

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