

Product Information

ANTI-HUMAN IgG (WHOLE MOLECULE) FITC CONJUGATE

Antibody developed in Rabbit
IgG Fraction of Antiserum

Product No. F 4512

Product Description

Anti-Human IgG is developed in rabbit using IgG from pooled normal human serum as the immunogen. Whole antiserum is fractionated and then further purified by ion exchange chromatography to provide the IgG fraction of antiserum. This fraction is essentially free of other rabbit serum proteins. Rabbit Anti-Human IgG is conjugated to crystalline fluorescein isothiocyanate (FITC) in an alkaline reaction and then further purified to remove free FITC.

Specificity for human IgG is determined by immunoelectrophoresis (IEP) versus purified human IgA, IgG, IgM, Bence Jones kappa and Bence Jones lambda myeloma proteins.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion versus anti-rabbit IgG and anti-rabbit whole serum results in single arcs of precipitation in the gamma region.

Reagents

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

Precautions

Due to the sodium azide content a material data 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 hazardous and safe handling practices.

Product Profile

1. A minimum working dilution of 1:64 was determined by direct immunofluorescent labeling of human peripheral blood lymphocytes.
2. A minimum working dilution of 1:64 was determined by indirect labeling using an A.N.A. (Anti-Nuclear Antibody) assay on acetone fixed mouse liver cells and A.N.A. positive serum as the primary antibody.

In order to obtain best results it is recommended that each individual user determine their optimum working dilutions for their system by titration assay.

Protein Concentration: 10-20 mg/ml by absorbance at 280nm ($E_{280}^{1\%} = 14.0$).

F/P Molar Ratio: 2.5 to 6.5

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 per 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.

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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