

Product Information

Anti-Mouse IgG (whole molecule) TRITC Conjugate

Antibody Developed in Goat
IgG Fraction of Antiserum

Product No. **T 5393**

Product Description

Anti-Mouse IgG is developed in goat using IgG isolated from pooled normal mouse 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 goat serum proteins. The antibody is conjugated to crystalline tetramethylrhodamine isothiocyanate (TRITC) and then further purified to remove free TRITC.

Specificity for mouse IgG is determined by Ouchterlony Double Diffusion (ODD). The antibody preparation is specific for mouse IgG and all subclasses, it cross reacts with mouse IgA and IgM.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion against anti-goat IgG and anti-goat 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 0.1% sodium azide as a preservative.

Precautions

Due to the sodium azide content a material safety data 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.

Product Profile

The minimum working dilution was determined to be 1:64 by direct immunofluorescent labeling of mouse spleen cells.

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

F/P Molar Ratio: 1 to 3

A_{555}/A_{280} : 01-0.3

The F/P molar ratio of the TRITC-antibody conjugate is determined spectrophotometrically as follows:²

$$\text{F/P Molar Ratio} = \frac{A_{555} \times 1.4}{A_{280} - (A_{515} \times 0.56)} \times 6.6$$

Where:

0.56 = fluorochrome absorbance correction factor (non-protein) absorbance

6.60 = factor for conversion of fluorochrome to protein ratios from weight to molar ratios

Storage

Store at 2-8 °C.

For extended storage, solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

References

1. Becker, W., *Immunochemistry*, **6**, 539 (1969).
2. Amante, L., et al., *J. Immunol. Meth.*, **1**, 289 (1972).

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