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ProductInformation

ANTI-RABBIT IgG (WHOLE MOLECULE)
FITC CONJUGATE
Antibody developed in Goat
IgG Fraction of Antiserum

Product No. **F 6005**

Product Description

Anti-Rabbit IgG is developed in goat using purified rabbit IgG 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. Goat Anti-Rabbit IgG is conjugated to Fluorescein Isothiocyanate (FITC) in an alkaline reaction, then further purified to remove unbound FITC.

The antiserum is determined to be immunospecific for rabbit IgG by immunoelectrophoresis versus normal rabbit serum and rabbit IgG, prior to conjugation.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), 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 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 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

A minimum titer of 1:40 is determined by indirect immunofluorescent labeling of mouse spleen cells.

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

F/P Molar Ratio: 3.0-5.0
A_{280}/A_{496}: 1.0-1.5
The F/P molar ratio is determined spectrophotometrically as follows:

$$F = A_{496}/0.15 \quad P = A_{280} - (A_{496} \times 0.32)/1.4$$
$$\text{F/P Molar Ratio} = F/P \times 0.41$$

Where:
0.15 = The extinction coefficient of bound FITC at a concentration of 1 µg per ml at pH 7.2
0.32 = The fluorochrome absorbance correction factor (nonprotein absorbance).
0.41 = The factor for conversion of fluorochrome to protein ratios from weight to molar ratios.

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

Storage

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.

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