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ProductInformation

ANTI-SHEEP IgG (WHOLE MOLECULE)

FITC CONJUGATE

antibody produced in rabbit
IgG fraction of antiserum

Product No. **F5137**

Product Description

Anti-Sheep IgG is developed in rabbit using purified sheep 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 rabbit serum proteins. Rabbit Anti-Sheep 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 sheep IgG by immunoelectrophoresis versus normal sheep serum and sheep 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-rabbit IgG and anti-rabbit whole serum results in single arcs of precipitation in the gamma region.

Reagent

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.

Product Profile

1. A minimum working dilution of 1:100 is determined by indirect immunofluorescent labeling of formalin fixed human tonsils and Goat Anti-Human IgG (Product No. I1011) at 1:100 as the primary antibody.

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 2.5-6.5
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 µg per ml at pH 7.2
0.36 = The fluorochrome absorbance correction factor (non-protein absorbance).

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

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.

Kaa/Pcs 06/06

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