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ProductInformation

ANTI-PIG IgG (WHOLE MOLECULE)
FITC CONJUGATE
Antibody Developed in Rabbit
IgG Fraction of Antiserum

Product Number **F 4762**

Product Description

Anti-Pig IgG is developed in rabbit using purified pig 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-Pig 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 pig IgG by immunoelectrophoresis against normal pig serum and pig 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 against 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 0.01M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Precautions and Disclaimer

Due to the sodium azide content a material 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.

Storage/Stability

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.

Product Profile

The minimum working dilution was determined to be 1:32 by direct immunofluorescent labeling of porcine peripheral blood lymphocytes.

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:

$$F/P = \frac{A_{495} \times 1.4}{A_{280} - (0.36 \times A_{495}) \times 0.2} \times 0.41$$

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

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