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ProductInformation

ANTI-GUINEA PIG IgG (whole molecule)
FITC Conjugate
Antibody developed in Goat
Affinity Isolated Antigen Specific Antibody

Product No. **F6261**

Product Description

Anti-Guinea Pig IgG is developed in goat using purified guinea pig IgG as the immunogen. Affinity isolation removes essentially all goat serum proteins, including immunoglobulins which do not specifically bind to guinea pig IgG. Goat anti-guinea pig IgG is then conjugated to Sigma Fluorescein Isothiocyanate (FITC), Isomer I (Product No. F7250). Following conjugation, unbound FITC is removed by extensive dialysis.

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.

Reagents

The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 1% BSA with 15 mM sodium azide as preservative.

Precautions and Disclaimer

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 product is provided with a specific antibody content of 1.0 mg/ml (prior to the addition of BSA).

Working Dilution: Minimum 1:64
The working dilution was determined by direct immunofluorescent labeling of guinea pig 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: 3.0-5.0

A_{280}/A_{496}:1.0-1.5 (prior to the addition of 1% BSA)
The F/P molar ratio is determined spectrophotometrically as follows:

$$F = A_{496}/0.15 \qquad P = \frac{A_{280} - (A_{496} \times 0.32)}{1.4}$$

$$\text{F/P Molar Ratio} = F/P \times 0.41$$

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 (non-protein absorbance).
0.41 = The factor for conversion of fluorochrome to protein ratios from weight to molar ratios.

Storage and Stabilty

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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