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Product Information

Anti-Horse IgG (whole molecule)-FITC
produced in rabbit, affinity isolated antibody

Catalog Number **F7759**

Product Description

Anti-Horse IgG is produced in rabbit using purified horse IgG as the immunogen. Affinity isolation removes essentially all rabbit serum proteins, including immunoglobulins, which do not specifically bind to horse IgG. Anti-Horse IgG is then conjugated to fluorescein isothiocyanate (FITC), Isomer I, Catalog Number F7250. Following conjugation, unbound FITC is removed by extensive dialysis.

Specificity of the anti-horse IgG is determined by immunoelectrophoresis, prior to conjugation, versus normal horse serum and horse IgG.

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.

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 a preservative.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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 or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Note: Store product protected from light.

Product Profile

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

Direct immunofluorescence: a minimum working dilution of 1:32 was determined using horse peripheral blood lymphocytes.

Note: 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 to 5.0

The F/P molar ratio is determined spectrophotometrically as follows:

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

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

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