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ProductInformation

Product No. F-8888
Lot 106H4804

Anti-Chicken IgG (whole molecule)
FITC Conjugate
Antibody developed in Rabbit
Affinity Isolated Antigen Specific Antibody

Antiserum is developed in rabbit using purified chicken IgG as the immunogen. Antibody is isolated from rabbit anti-chicken IgG antiserum by immunospecific purification which removes essentially all rabbit serum proteins, including immunoglobulins, which do not specifically bind to chicken IgG. Rabbit anti-chicken IgG is conjugated to fluorescein isothiocyanate (FITC). Free FITC is removed by gel filtration. The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, with 0.01% thimerosal as a preservative.

Specificity

Specificity of the anti-chicken IgG antibodies for chicken IgG is determined by immunoelectrophoresis (IEP), prior to conjugation, using normal chicken serum and chicken IgG.

Identity and Purity

Identity and purity of the antibody is established by immunoelectrophoresis, 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.

Working Dilutions

1. A dilution of 1:32 was determined by direct immunofluorescent labeling of chicken spleen cells.
2. A dilution of 1:320 was determined by indirect immunofluorescent labeling of formalin-fixed, paraffin-embedded human tonsil sections using chicken anti-human IgG as the primary antibody.

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

Protein Concentration: 3.2 mg/ml by absorbance at 280 nm and 495 nm ($E^{1\%}_{280}$ = 14.0, $E^{1\%}_{495}$= 15.0).

F/P Molar Ratio: 3.6

A_{280}/A_{495}: 1.1

The F/P Molar ratio of FITC-antibody conjugates 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/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.

Agar Block Precipitation Titer (ABPT)

In an agar diffusion assay, the conjugate produces a precipitation arc at a dilution of 1:64 versus a 1:640 dilution of normal chicken serum.

Storage

For continuous use, store at 2-8°C. 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.