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Product Information

**Anti-Human IgE (ε-chain specific)
FITC Conjugate
Antibody developed in Goat
IgG Fraction of Antiserum**

Product No. **F3637**

Product Description

Anti-Human IgE is developed in goat using IgE isolated from human myeloma serum 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 goat serum proteins. Goat anti-human IgE is conjugated to Fluorescein Isothiocyanate (FITC) in an alkaline reaction, and then further purified to remove unbound FITC.

Specificity for the ε-chain of human IgE is determined by immunoelectrophoresis (IEP), prior to conjugation. The antibody preparation is specific for human IgE when tested against purified human IgA, IgG, IgM, Bence Jones kappa and Bence Jones lambda myeloma proteins. Using immunoelectrophoresis, a minimum dilution of 1:8 shows strong reactivity with human IgE at 2 mg/ml.

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

Reagents

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.

Precautions

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 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/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.

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.

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