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ProductInformation

ANTI-DOG IgG (WHOLE MOLECULE)
FITC CONJUGATE
Antibody developed in Rabbit
IgG Fraction of Antiserum

Product No. **F4012**

Product Description

Anti-Dog IgG is developed in rabbit using purified dog 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-dog IgG is conjugated to Fluorescein Isothiocyanate (FITC) in an alkaline reaction, then further purified to remove unbound FITC.

Reagents

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

Precautions and Disclaimer

Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

Specificity

The antiserum is determined to be immunospecific for dog IgG by immunoelectrophoresis versus normal dog serum and dog IgG, prior to conjugation.

Identity and Purity

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 in the gamma region.

Working Dilution

The minimum working dilution of 1:32 was determined by direct immunofluorescent labeling of dog spleen cells.

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 to 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 ($E^{1\%}_{280}$ = 14.0).

Storage

For continuous use, store at 2-8 °C for a maximum of 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.

Pcs 5/02