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ProductInformation

Anti-Mouse Polyvalent Immunoglobulins (G,A,M)-FITC
produced in goat, affinity isolated antibody

Catalog Number **F1010**

Product Description

Anti-Mouse Polyvalent Immunoglobulins (G,A,M) are produced in goat using as immunogens purified mouse IgG, IgA and IgM. Affinity isolated antigen specific antibodies are obtained from goat antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins that do not specifically bind to mouse IgG, IgA, or IgM. Each specific antibody is then conjugated to fluorescein isothiocyanate (FITC), Isomer I, Catalog Number 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 against anti-goat IgG and anti-goat whole serum results in single arcs of precipitation.

Each milliliter of product contains 1.0 mg each of anti-mouse IgA, IgG and IgM specific antibody.

Reagent

Supplied 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

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/Stability

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.

Product Profile

Direct immunofluorescence: a minimum working dilution of 1:256 is determined using mouse spleen cells.

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 (fluorochrome/protein) molar ratio is determined spectrophotometrically:

$F = A_{496}/0.15$

$P = [A_{280} - (A_{496} \times 0.32)]/1.4$

F/P Molar Ratio = F/P x 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 the ratio from weight to molar ratio

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