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## Product Information

### ANTI-MOUSE IgM ( $\mu$ -CHAIN SPECIFIC)

Developed in Goat  
IgG Fraction of Antiserum

Product No. **M 5272**

#### Product Description

Antiserum is developed in goat using purified mouse IgM 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. To ensure specificity for the  $\mu$ -chain of mouse IgM, the antiserum is adsorbed using solid phase techniques. Goat Anti-Mouse IgM is provided lyophilized from 0.01 M phosphate buffered saline, pH 7.2, to which no preservatives have been added.

Antiserum is determined to be immunospecific for mouse IgM by immunoelectrophoresis versus mouse IgM and normal mouse serum. Specificity for the  $\mu$ -chain of mouse IgM is determined by Ouchterlony Double Diffusion (ODD). The antibody preparation is specific for mouse IgM when tested against purified mouse IgA, IgG1, IgG2a, IgG2b, IgG3, and IgM myeloma proteins.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP). Electrophoresis of the product followed by diffusion versus anti-goat IgG and anti-goat whole serum results in single arcs of precipitation in the gamma region.

#### Product Profile

Protein Concentration: not more than 90 mg/ml by Biuret.

Titer: Minimum 1:8

Using an Ouchterlony double diffusion (ODD) assay, in 1% agarose, 5  $\mu$ l of serially diluted reconstituted antiserum is reacted against 5  $\mu$ l of 1 mg/ml solution of purified mouse IgM (well separation: 7.5 mm center to center). Titer is equivalent to the highest dilution of antiserum resulting in a visible precipitate after 24 hours.

#### Reconstitution and Storage Instructions

To one vial of lyophilized powder add 2 ml of deionized water. Rotate vial gently until powder dissolves. Prior to reconstitution store the product at 2-8 °C. After reconstitution, the solution may be stored frozen in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage clarify the solution by centrifugation before use.

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