

Product Information

Anti-Mouse Polyvalent Immunoglobulins (IgG, IgA, IgM) Peroxidase Conjugate

Antibodies developed in Goats
Affinity Isolated Antigen Specific Antibodies

A0412

Product Description

Antisera are developed in goats using purified mouse IgG, IgA and IgM as the immunogens. 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 Horseradish Peroxidase, Type VI by a modification of the periodate method of Wilson and Nakane.¹ The product is prepared by combining the conjugated antibodies to ensure consistent immunoenzymatic activity for each immunoglobulin. The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 1% BSA with preservative.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), 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. Following conjugation, the conjugate is tested for immunoenzymatic activity by ELISA.

Product Profile

A minimum titer of 1:10,000 is determined for each immunoglobulin (Direct ELISA). Titer is defined as the dilution of conjugate sufficient to give a change in absorbance of 1.0 at 450 nm after 30 minutes of substrate conversion at 25 °C.¹ Microtiter plates are individually coated with purified mouse IgG, IgA or IgM at a concentration of 5 µg/mL in 0.05 M carbonate\bicarbonate buffer, pH 9.6 (Carbonate-Bicarbonate Buffer Capsules are available as Cat. No. C 3041).

Substrate: o-Phenylenediamine Dihydrochloride (OPD, Cat. No. P 8287), 0.4 mg/mL in 0.05 M phosphate-citrate buffer, pH 5.0 contains 0.03% sodium perborate (Phosphate-Citrate Buffer Capsules with Sodium Perborate are available as Cat. No. P 4922).

Working dilution should be determined by titration assay. Due to differences in assay systems, this titer may not reflect the user's actual working dilution.

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.

References

1. Wilson, M. and Nakane, P., Immunofluorescence and Related Staining Techniques, Elsevier North Holland BioMedical Press, Amsterdam, p. 215 (1978).
2. Voller, A., et al., Bulletin WHO, **53**, 55 (1976).

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