

ProductInformation

ANTI-MOUSE POLYVALENT IMMUNOGLOBULINS

(IgG, IgA, IgM)

ALKALINE PHOSPHATASE CONJUGATE

Antibodies developed in Goats

Affinity Isolated Antigen Specific Antibodies

Product No. **A 0162**

Product Profile

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 Sigma Alkaline Phosphatase, Type VII-S by protein cross linking with 0.2% glutaraldehyde.¹ The product is prepared by combining the conjugated antibodies to ensure consistent immunoenzymatic activity for each immunoglobulin.

Specificity of the Alkaline Phosphatase Conjugated Anti-Mouse Immunoglobulins is determined by Enzyme Linked Immunosorbent Assay (ELISA). The conjugate is specific for mouse IgG, IgA and IgM.

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.

Reagents

The conjugate is provided as a solution in 0.05 M Tris buffer, pH 8.0, containing 1% BSA, 1 mM MgCl₂, with 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

A minimum titer of 1:3,000 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 405nm after 30 minutes of substrate conversion at 25 °C.² Individual microtiter plates are coated with purified mouse IgG, IgA, and 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 Product No. C 3041).

Substrate: *p*-Nitrophenyl Phosphate (pNPP, Product No. N 2765), 1.0 mg/ml in 10% diethanolamine buffer, pH 9.8, containing 0.5 mM MgCl₂.

Working dilution should be determined by titration assay. Due to product improvement and changes in the assay procedure, we now list a titer by direct ELISA for this product. Due to differences in assay systems, this titer may not reflect the user's actual working dilution.

Storage

Store at 2-8 °C. Do Not Freeze.

References

1. Avrameas, V., *Immunochemistry*, **6**, 43, (1969).
2. Voller, A., et al., *Bulletin WHO*, **53**, 55 (1976).

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