

Product Information

Anti-Dog IgG (whole molecule)-Peroxidase antibody produced in rabbit

IgG fraction of antiserum, buffered aqueous solution

Catalog Number **A9042**

Product Description

Antiserum is produced 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. Anti-Dog IgG is then conjugated to peroxidase by protein cross linking with 0.2% glutaraldehyde.

Specificity of Anti-Dog IgG (whole Molecule)-Peroxidase is determined by immunoelectrophoresis (IEP) versus normal dog serum and dog IgG, prior to conjugation.

Identity and purity of the antibody is established by immunoelectrophoresis, prior to conjugation. Electrophoresis of the product followed by diffusion versus the anti-rabbit IgG and the anti-rabbit whole serum results in single arcs of precipitation in the gamma region.

Reagent

Supplied as a Solution in 0.01 M phosphate buffered saline, pH 7.4, containing 0.05% MIT.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses.

Storage

For continuous use, store at 2-8 °C. 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

Molar Ratio (IgG:Peroxidase) = 0.8-1.5

Direct ELISA: a minimum titer of 1:25,000 is determined by 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 coated with purified dog IgG at a concentration of 5µg/ml in 0.05 M carbonate-bicarbonate buffer, pH 9.6.

Carbonate-Bicarbonate Buffer capsules are available as Cat. No. C3041

Substrate: o-Phenylenediamine Dihydrochloride (OPD), Cat. No. P8287, 0.4 mg/ml in 0.05 M phosphate-citrate buffer, pH 5.0 containing 0.03% sodium perborate. Phosphate-Citrate Buffer with Sodium Perborate capsules are available as Cat. No. P4922

Dot Blot: a minimum dilution of 1:40,000 was determined in a direct chemiluminescence assay using 10 ng dog IgG/dot. Luminol plus enhancer was used as substrate.

Note: Working dilutions should be determined by titration assay. Due to differences in assay systems, these titers may not reflect the user's actual working dilution.

Reference

1. Voller, A., et al., *Bulletin WHO*, **53**, 55 (1976).

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