

**ANTI-DOG IgG (WHOLE MOLECULE)  
ALKALINE PHOSPHATASE CONJUGATE  
IgG FRACTION OF ANTISERUM**

Product No. **A0793**

Lot No. 117H4825

Antiserum is developed in rabbit using IgG isolated from pooled normal dog serum 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. Rabbit anti-dog IgG is conjugated to Alkaline Phosphatase using 0.2% glutaraldehyde. The conjugate is provided as a solution in 0.05 M Tris buffer, pH 8.0, containing 1% BSA, and 1 mM MgCl<sub>2</sub>, with 0.1% sodium azide (see MSDS)\* as preservative.

**Specificity**

Specificity of the anti-dog IgG antibodies for dog IgG is determined by immunoelectrophoresis and double diffusion assays prior to conjugation using normal dog serum and dog IgG.

**Identity and Purity**

Identity and purity of the antibody is established by immunoelectrophoresis (IEP). 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.

**Titers**

1. 1:5,000 (Direct ELISA)

We are now reporting lot specific information as a titer by direct ELISA rather than as a working dilution. Titer is defined as the dilution of conjugate sufficient to give a change in absorbance of 1.0 at 405 nm after 30 minutes of substrate conversion at 25°C (Voller, et al.<sup>1</sup>). Microtiter plates are coated with purified dog IgG at a concentration of 5 µg/ml in 0.05 M carbonate/bicarbonate buffer, pH 9.6 (Carbonate/Bicarbonate

Buffer Capsules are available as Sigma Product No. C3041).

**Substrate:** *p*-Nitrophenyl Phosphate (pNPP, Sigma Product No. N2765), 1.0 mg/ml in 10% diethanolamine buffer, pH 9.8, containing 0.01% MgCl<sub>2</sub> and 0.02% NaN<sub>3</sub>.

2. Dot Blot
  - a. A dilution of 1:4,000 was determined in a direct assay using 20 ng dog IgG/dot.
  - b. A dilution of 1:4,000 was determined in a direct chemiluminescence assay using 20 ng dog IgG/dot. Luminol plus enhancer was used as substrate.

**Working Dilution**

Working dilution should be determined by titration assay. Due to product improvement and changes in the assay procedure, we now list a lot specific 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.**

**Reference**

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

\*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.

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