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## Product Information

### ANTI-SHEEP IgG (WHOLE MOLECULE) BIOTIN CONJUGATE

Antibody developed in Donkey  
Affinity Isolated Antigen Specific Antibody

Product Number **B 7390**

#### Product Description

Anti-Sheep IgG (whole molecule is developed in donkey using purified sheep IgG as the immunogen. Affinity isolated antigen specific antibody is obtained from donkey anti-sheep IgG antiserum by immunospecific purification which removes essentially all donkey serum proteins, including immunoglobulins, that do not specifically bind to sheep IgG. Donkey anti-sheep IgG is conjugated to N-Hydroxysuccin-imidobiotin.<sup>1</sup>

Specificity of the antiserum for sheep IgG is determined by immunoelectrophoresis (IEP), prior to conjugation, against sheep IgG and normal sheep serum.

Identity and purity of the antibody is established by immunoelectrophoresis, prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion against anti-horse IgG and anti-donkey whole serum results in single arcs of precipitation.

#### Reagents

The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 1% BSA with 15 mM sodium azide as a preservative.

#### Precautions and Disclaimer

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.

#### Storage/Stability

For continuous use, store at 2-8 °C. 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.

#### Product Profile

Working dilution (minimum 1:20,000) is defined as the dilution of conjugate that gives a change in absorbance of 1.0 at 492 nm after 30 minutes of substrate conversion at 25 °C.<sup>2,3</sup> Microtiter plates are coated purified sheep IgG at a concentration of 200 ng/ml in 0.05 M carbonate/bicarbonate buffer pH 9.6 (Carbonate/Bicarbonate Buffer Capsules are available as Product No. C 3041). Following incubation with the biotinylated antibody, a solution of Avidin-Horseradish Peroxidase (Product No. A 3151, diluted in 0.01 M phosphate buffered saline, pH 7.4, containing 0.05% Tween 20 and 0.5% BSA) is added.

Substrate: 0.04% *o*-Phenylenediamine Dihydrochloride\*\* (OPD, Product No. P 8412), and 0.012% Hydrogen Peroxide\*\* (H<sub>2</sub>O<sub>2</sub>, Product No. H 1009) in phosphate-citrate buffer, pH 5.0 [25.7 ml 0.2 M dibasic sodium phosphate (Product No. S 0876), 24.3 ml 0.1 M citric acid (Product No. C 7129) and 50 ml deionized water].

\*\*Add immediately before use.

#### References

1. Bayer, E. A., et al., *Methods Enzymol.*, **62**, 308 (1979).
2. Voller, A., et al., *Bull. World Health Organ.*, **53**, 55 (1976).
3. Guesdon, J., et al., *J. Histochem. Cytochem.*, **27**, 1131 (1979).

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