



Product Information

EXTRAVIDIN[®]-PEROXIDASE

Product No. **E 2886**

ExtrAvidin[®] is prepared from egg white avidin. It is a tetrameric protein containing four high affinity binding sites for biotin. ExtrAvidin is a modified form of affinity purified avidin. ExtrAvidin combines the high specific activity of avidin with the low background staining of streptavidin, a biotin binding protein produced by the bacteria *Streptomyces avidinii*. ExtrAvidin binds biotin with the high affinity of egg white avidin, however, it does not exhibit the unwanted non-specific binding reported for egg white avidin at physiological pH, such as the staining of mast cells. The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, and 0.01% thimerosal as a preservative.

Working Dilutions

1. A dilution of 10-40 µg/ml of the conjugate was determined for use as a reagent in immunohistological applications.
2. A minimum dilution of 1:2000 of the conjugate was determined for use as a reagent in dot blot applications.
3. A minimum dilution of 1:1000 of the conjugate was determined for use as a reagent in ELISA applications.

In order to obtain best results, it is recommended that each individual user determine their optimum working dilution by titration assay.

Specificity

The product is found to be reactive with rabbit anti-avidin (Product No. A 5170) and non-reactive with rabbit anti-streptavidin (Product No. S 6390) by immunoelectrophoresis.

Molar Ratio (ExtrAvidin:Peroxidase) 0.5-0.9

Protein Concentration: 2.0-2.5 mg/ml by $E_{280}^{1\%} = 12.4$

Enzyme Activity

Enzyme activity is determined using 5% pyrogallol (Sigma Product No. P 0381) in deionized water, pH 6.0, at 20 °C. One purpurogallin unit will form 1 mg of purpurogallin from pyrogallol in 20 seconds at pH 6.0, 20 °C.

Uses

ExtrAvidin-Peroxidase may be used in conjunction with biotin in techniques such as ELISA, immunohistochemistry, protein blotting or with biotinylated-DNA probes. It provides a convenient yet highly sensitive and very specific detection system.

Storage

Store at 2-8 °C. **Do Not Freeze.**

If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

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