

Product Information

ExtrAvidin®-TRITC Conjugate

Product No. **E 3011**

Product Description

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.

Reagents

ExtrAvidin® has been conjugated to tetramethylrhodamine isothiocyanate (TRITC) and is provided as a liquid in 0.01 M phosphate buffered saline, containing 10% (v/v) 0.5 M carbonate buffer, pH 9.5 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.

Specificity

By immunoelectrophoresis (IEP), the product reacts with rabbit anti-avidin.

Uses

ExtrAvidin®-TRITC may be used in fluorescent biotin-avidin techniques in immunocytology and immunohistochemistry. It provides a convenient yet highly sensitive and very specific detection system.

Protein Concentration: 1.5-3.0 mg/ml, determined by absorbance at 280 nm and 550 nm.

Molar Ratio: 1.0 to 3.0

Working Dilutions

1. A minimum working dilution of 1:200 was determined by staining on mouse spleen cells using biotinylated anti-mouse IgG.
2. A minimum working concentration of 100 µg/ml was determined using human prostate and anti-human prostatic acid as the primary antibody.

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

Storage

For continuous use, store at 2-8 °C for up to one month. 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.

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