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Product Information

ExtrAvidin®

Product Number **E 2511**

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.

By immunoelectrophoresis (IEP), the product reacts with rabbit anti-avidin, but not with rabbit anti-streptavidin.

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

The product is provided as an essentially salt-free lyophilized powder with no preservatives added.

Reconstitution

To one vial of lyophilized powder, add sufficient 0.01 M to 0.05 M phosphate buffered saline to achieve not less than a 1 mg/ml solution of protein. Rotate vial gently until powder dissolves. Do not freeze after reconstitution.

Storage/Stability

Store at 2-8 °C.

Product Profile

Binding Activity is at least 10 µg biotin per mg ExtrAvidin by spectrophotometric titration at 233 nm according to the method of N.M. Green, Methods Enzymol., **18A**, 418 (1970).

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