

UltraAvidin™

Purified

Avidin - Biotin

Product Information

Product No.: A110

Storage: -20°C

Product Description

Background:

UltraAvidin™ is Leinco Technologies' trademark for a uniquely modified form of avidin which is isolated from chicken egg whites. With a molecular weight of 60,000, there are four identical subunits each capable of binding one molecule of biotin. UltraAvidin from Leinco Technologies has been de-glycosylated to prevent carbohydrate moieties from adhering to lectin-like receptors on the surface of cells, thus eliminating the possibility of false positives. Unlike native avidin, UltraAvidin has a near neutral pI which prevents electrostatic interactions with negatively charged serum or membrane proteins. Recent studies have identified a universal recognition sequence in streptavidin which is similar to that found in several adhesion receptors.(1) It is a tripeptide sequence Arg-Tyr-Asp (RYD) which mimics the Arg-Gly-Asp (RGD) binding sequence of fibronectin. Strong interactions have been shown with streptavidin and cell surface molecules. This universal recognition sequence is not present in UltraAvidin. UltraAvidin may not significantly increase sensitivity in all research systems but will help assure specificity.

Format:

Purified

Formulation

UltraAvidin™ is lyophilized from a salt-free solution.

Storage and Stability

The lyophilized UltraAvidin™ should be stored desiccated at -20°C. Store reconstituted UltraAvidin™ at -20°C in working aliquots.

Avoid repeated freezing and thawing.

Country of Origin

USA

References

1. Wilchek, M. *et al.*(1990) *Biochem Biophys Res Commun.* 1990 **170**(3):1236-41.