

Product Datasheet

Europium Streptavidin MIDI

1220-0120

Unit Size: 400 uL

Storage of components varies. See protocol for specific instructions.

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1220-0120**Europium Streptavidin MIDI****Product Information**

Unit Size	400 uL
Concentration	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
Storage	Storage of components varies. See protocol for specific instructions.

Product Description

Description	Our Europium (Eu) Streptavidin conjugates are manufactured using covalent attachment of Streptavidin to the specially treated surface of 200nm Eu particles. The surface treatment of the particles makes the conjugates resistant to aggregation, while the extremely broad Stokes shift of the Eu chelate particle allows to reach a higher sensitivity in any immunoassay, preventing non-specific fluorescence interference. Streptavidin is a tetrameric biotin-binding protein that is isolated from <i>Streptomyces avidinii</i>. It is composed of identical subunits, with the tetramer having a molecular weight of approximately 53kDa. Each subunit binds one biotin molecule with a very high degree of specificity and affinity. The streptavidin-biotin complex is the strongest known non-covalent interaction ($K_d = 10^{-15}$M) between a protein and a ligand. The combination between the Eu fluorescence properties and the specific interaction of streptavidin with biotin makes our conjugate a useful tool in designing detection systems with excellent sensitivity. Features and Benefits of Europium-Streptavidin conjugates: • Highly stable, easy to use conjugates • Resistant to aggregation • No sonication, shaking or vortexing required • No need for blocking solution • Possibility to work with low conjugate concentrations • Conjugates can be run on an immunochromatographic assay as well as a microwell-based assay*
Notes	This product is manufactured by Abcam and distributed by Novus Biologicals. This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 1 year from date of receipt and this statement overrides any mentioned guarantee period on the limitations section of this products datasheet. Please contact technical@novusbio.com with questions.

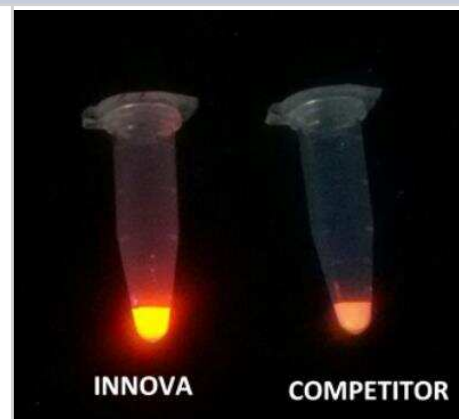
Product Application Details

Application Notes	When excited with UV light, the Eu chelate particle shows a maximal absorbance at 365nm and emits at 610 nm. The large Stokes shift leads to a low background signal and makes the conjugated particles ideal for immunochromatographic assay as well as a microwell-based assay. Thanks to the extended lifetime of approximately 0.5 milliseconds, the 200nm Eu Streptavidin conjugate can be used in a wide range of time-resolved fluorescence application for the indirect detection of antigens and DNA targets in many biotin/streptavidin interaction based assays.
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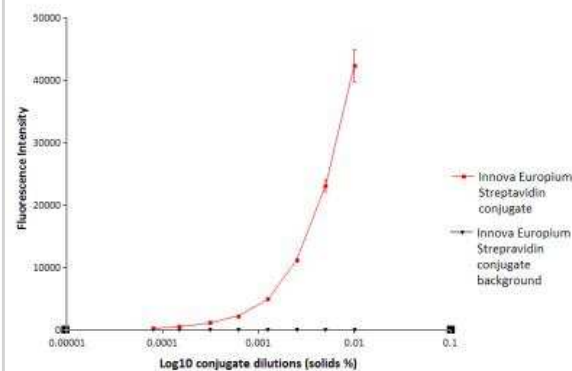


Images

Europium Streptavidin MIDI Antibody Labeling Kit [1220-0120] - Comparison of Innova's 200nm Europium Streptavidin conjugates with a commercially available anti-biotin europium conjugate at 0.5% solids. Innova's conjugate is considerably brighter than the competitor product under UV excitation.



Europium Streptavidin MIDI Antibody Labeling Kit [1220-0120] - Typical ELISA data with a time-resolved fluorescence (TRF) readout. Varying dilutions of Innova Biosciences' Europium-Streptavidin conjugate were added to a plate coated with biotinylated ovalbumin, and detected using a plate reader.





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Limitations

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