

Product Datasheet

Europium Streptavidin MINI

1220-0001

Unit Size: 80 uL

Storage of components varies. See protocol for specific instructions.

www.novusbio.com



technical@novusbio.com

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/1220-0001

Updated 4/1/2024 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/1220-0001



1220-0001**Europium Streptavidin MINI****Product Information**

Unit Size	80 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	<p>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.</p> <p>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.</p> <p>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.</p> <p>Features and Benefits of Europium-Streptavidin conjugates:</p> <ul style="list-style-type: none"> • 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	<p>This product is manufactured by Abcam and distributed by Novus Biologicals.</p> <p>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.</p>

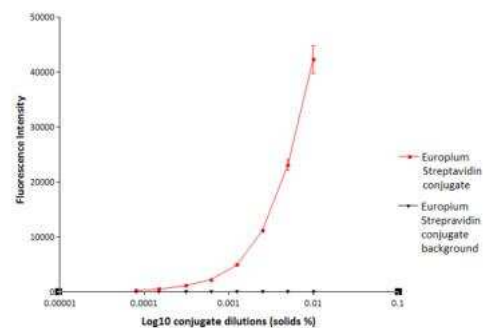
Product Application Details

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.
--------------------------	---



Images

Europium Streptavidin MINI Antibody Labeling Kit [1220-0001] - Typical ELISA data with a time-resolved fluorescence (TRF) readout. Varying dilutions of Europium-Streptavidin conjugate were added to a plate coated with biotinylated ovalbumin, and detected using a plate reader.



Picture 2: Typical result obtained in time-resolved direct ELISA showing different Innova 200nm Europium Streptavidin conjugate dilutions on a biotinylated ovalbumin coated plate.



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Support products are guaranteed for 6 months from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/1220-0001

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

