

200nm Europium - Streptavidin conjugate

Applicable to: 1220-0001 1 Reaction Mini Vial
1220-0120 1 Reaction Mini Vial

Release 1. © EXPEDEON. 19/04/2018

INTRODUCTION

Our 200nm Europium (Eu) - Streptavidin conjugate involves the covalent attachment of the streptavidin to the specially treated surface of 200 nm Eu particles, for the detection of biotinylated molecules.

The surface treatment of the particles makes the conjugate resistant to aggregation and the extremely broad Stokes shift of the Eu chelate particle allows you to reach a higher sensitivity in your immunoassay, preventing non-specific fluorescence interference.

The conjugate in this kit is freeze dried. You simply reconstitute the mixture with the Resuspension Buffer provided in the kit and the conjugate is ready to use.

KIT CONTENTS

- 1 Mini vial (1220-0001) or 1 Midi vial (1220-0120) of 200 nm Europium - Streptavidin conjugate.
- 1 vial of 1x Resuspension Buffer.

INSTRUCTIONS & APPLICATIONS

1. Allow the 1x Resuspension Buffer to warm to room temperature.
2. Reconstitute the conjugate as follows, according to the pack size:
 - o Mini vial (1220-0001): add 80µl of 1x Resuspension Buffer to get final 0.5% solids conjugate.
 - o Midi vial (1220-0120): add 400µl of 1x Resuspension Buffer to get final 0.5% solids conjugate.

3. The conjugate is now ready to use.

When excited with UV light, the Eu chelate particle shows a maximal absorbance at 365nm and emission at 610 nm. The large Stokes shift leads to a low background signal and makes the conjugated particle ideal for immunochromatographic assays as well as microwell-based assays.

Because of the extended lifetime of approximately 0.5 milliseconds, the 200nm Europium - Streptavidin conjugate can be used in a wide range of time-resolved fluorescence applications for the indirect detection of antigens and DNA targets in many biotin/streptavidin interaction based assays.

We recommend that you run the conjugate in a range between 0.005% - 0.0002% solids. However you may need to optimize this according to your application.

SHIPPING AND CONJUGATE STORAGE CONDITIONS

The conjugate is shipped at ambient temperature in a tamper-evident polypropylene container. Store the conjugate at -20° C upon receipt. The Resuspension Buffer can be stored at either 4°C or -20°C.

Once reconstituted, initial conjugate storage at 4°C is recommended. The Resuspension Buffer added for the reconstitution of the

lyophilized mixture is a good storage buffer. Do not store the reconstituted conjugate at -20°C.

Do not expose to light.

RELATED PRODUCTS AND SERVICES

Description	Prod.code
InnovaCoat® GOLD - 40nm Biotin gold conjugate	(240-0200, 240-1000)
Biotinylated BSA	(2050-0020)
Lightning-Link® Rapid Biotin A	(370-)
Lightning-Link® Rapid Biotin B	(371-)
Streptavidin – RPE	(2012-)
Streptavidin – HRP	(2010-)
Streptavidin – Fluorescein	(2014-)
Streptavidin – Alkaline Phosphatase	(2011-)
40nm, 20nm and 10nm streptavidin gold nanoparticles conjugate	(250-, 251-,252-)

TECHNICAL SUPPORT

For technical enquiries get in touch with our technical support team at: www.expedeon.com/contact/

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