CYTODIAGNOSTICS

PRODUCT DATA SHEET

Streptavidin Coated Plate

Description

Streptavidin is a tetrameric protein with exceptionally high affinity for biotin, enabling specific capture of biotinylated molecules. Streptavidin pre-coated plates eliminate the need for manual coating, ensuring consistent surface coverage and reliable performance. They are especially advantageous when direct adsorption to polystyrene surfaces may compromise the structure or activity of antibodies or target molecules. These plates provide a time-saving and reproducible platform for ELISA development, and biotin-based detection workflows.

Feature

Our high-quality 96-well microplate is pre-coated with Streptavidin for sensitive and specific capture of biotinylated molecules. Optimized for ELISA format, the plate offers strong and stable biotin-binding capacity, low background, and excellent well-to-well reproducibility. It supports detection of biotinylated protein at low pg/mL level. This ready-to-use plate simplifies assay setup, reduces variability, and enhances performance in applications such as quantification, screening, and assay development involving biotin-streptavidin system.

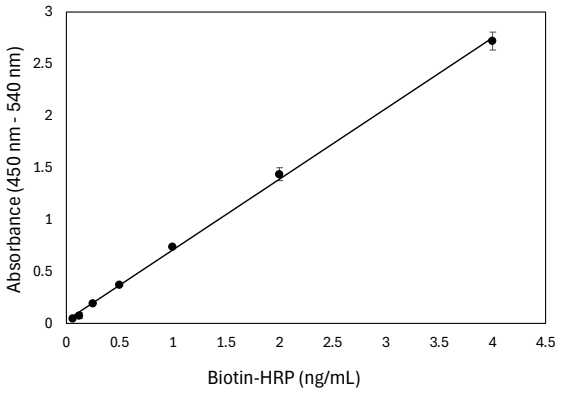

Figure: Pre-coated Streptavidin plate detecting Biotinylated HRP in ELISA.

Characteristics

Target name	Biotin
Alternate names	Biotinylated molecules
Assay format	Solid-phase ELISA (quantitative)
Validated Sample	Biotinylated enzyme
Sample volume	100 µL
Analytical sensitivity	0.025 ng/mL
Assay range	0.06 – 4 ng/mL
Intra-assay CV	<9%
Inter-assay CV	<11%
Detection & Instrument	Colorimetric, Microplate Reader

Validation

Each manufactured lot of this pre-coated plate is quality tested using ELISA for criteria such as precision, and lot-to-lot consistency.

Storage

This product should be stored at 2-8°C. Do not freeze. If stored and handled as specified, Streptavidin pre-coated plate is stable for at least 6 months.

Precautions and Disclaimer

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Please consult the Material Safety Data Sheet available online at www.cytodiagnostics.com for information regarding hazards and safe handling procedures.

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