

AMG™ Streptavidin Plate, High Sensitivity, Stripwell

AI-PLSSAPP-05.00

AMG™ Streptavidin Plates utilise Mix&Go™ coating technology to stably bind streptavidin to polystyrene microwells. AMG Streptavidin Plates detect low concentrations of biotinylated antibodies. The plates are provided pre-blocked and ready to use.

Materials Supplied	
Cat. No.	Component
A-PLSSAPP	AMG™ Streptavidin Plate, High Sensitivity, Stripwell

Additional Materials Required
Biotinylated antibody
Pipettes
Antibody Diluent (PBS with 1% BSA and 0.05% Tween20®)
Wash Buffer (PBS with 0.05% Tween20®)

Specifications	
Ordering Information	A-PLSSAPP-1 (Single Plate) A-PLSSAPP-5 (5 Plate Pack)
Storage	Store at 2°C - 25°C in a dry location. Unused strips should be returned to the foil pouch with the absorbent sachet and sealed for future use.
Stability	Plates coated by the user should be assessed for individual use and storage stability conditions, as this can vary depending on the protein and conditions used.
Applications	Plates are compatible with the majority of automated instruments including plate readers and washers. Refer to the online 'Corning Equipment Compatibility Guide' for further information.
Supplied Surface	Corning™ clear, pre-blocked 12 x 8 stripwell plate.
Coating Volume	Streptavidin coating volume 100 µL. Blocking volume 200 µL.
Regulatory	For laboratory use only.

Compatibility	
Buffers	It is recommended to use buffers containing Tween20® when using this streptavidin plate. The buffers used in the example procedure below are Antibody Diluent (PBS with 1% BSA and 0.05% Tween20®) and Wash Buffer (PBS with 0.05% Tween20®). Plates retain full functionality in the presence of ≤2.5% Tween-20, SDS, Triton-X100 or CHAPS and ≤ 5% BSA as well as ≤0.5M NaCl.
Temperature	Do not expose to temperatures exceeding 45°C. Plates can be incubated at 4°C overnight, or at 20°C - 37°C for shorter periods of time (e.g. 60 minutes). Room temperature is defined as 20°C - 25°C.
Biotinylated Protein Concentration	Protocols should be optimised to meet individual requirements, as this can vary depending on the antibody used, and the level of biotinylation.

Safety
Standard safety precautions exercised when handling laboratory reagents should be adhered to. Refer to the MSDS for safety precautions.

Warnings/Hazards
The user must determine the suitability of the product for specific uses.

Other Products
For more information on Anteo products please visit www.anteotech.com .

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Example Procedure		Time
Coating		
1.	Allow reagents to come to room temperature	
2.	Dilute the biotinylated antibody in diluent to the required working concentration	
3.	Add 100 µL of the prepared antibody solution to the well of the AMG™ Streptavidin Plate (Cat. No. A-PLSSAPP)	
4.	Incubate the plate, covered, at room temperature	30 minutes
Washing		
5.	Wash the plate 5x using wash buffer	
6.	Continue with further assay procedures or follow the manufacturers instructions for the specific detection system	

Observations	
<p>The inter-plate CV and intra-plate CV is assessed for every batch of plates manufactured, with a CV% of < 10% achieved for all batches.</p> <p>The performance of AMG Streptavidin Plates have been quantified using a biotinylated mouse IgG Ab to determine the dynamic range, limit of detection and signal to noise ratio.</p> <p>The dynamic range gives an indication of the concentration range (with linear correlation > 0.99) of an analyte that can be measured using a defined assay.</p> <p>The limit of detection is defined as the lowest concentration of analyte that can be consistently detected but not necessarily quantified in a defined assay system.</p> <p>The signal to noise ratio is a measure of background responses relative to analyte responses. This value indicates the extent of interference that the components of the assay may have on the signal/response to the analyte and measures the impact on the response.</p>	
Dynamic range	1 – 100 ng/mL
Limit of detection	< 5 ng/mL
Signal to noise at 100 ng/mL biotinylated IgG	> 20
Inter-plate and intra-plate CV	< 10%

Contact		
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