

Agarose and Acrylamide Conjugates

Cat. nos. A10516, S21379, S951

Table 1. Contents and storage information.

Material	Amount	Storage	Stability
goat anti-mouse Ig G (H+L) agarose (A10516)	2 mL	<ul style="list-style-type: none"> • 2–6°C • Do not freeze 	When stored as directed this kit is stable for 1 year
Streptavidin agarose (S951)	5 mL		
Streptavidin acrylamide (S21379)	1 mg	<ul style="list-style-type: none"> • –20°C • Desiccate 	

Introduction

Invitrogen offers goat anti-mouse IgG (Cat. no. A10516) and streptavidin (Cat. no. S951) conjugated to 4% beaded crosslinked agarose—a matrix that can be used to isolate mouse IgG (H+L) or biotinylated proteins,¹ respectively. In addition, biotinylated antibodies can be bound to streptavidin agarose to generate affinity matrices for the large-scale isolation of antigens.²

Streptavidin conjugated to acrylamide (Cat. no. S21379) is another reagent that has potential use for biotinylated-probe isolation. Streptavidin acrylamide can be co-polymerized with acrylamide on polymeric surfaces to create a uniform monolayer of the immobilized protein.^{3,4} The streptavidin then binds biotinylated-ligands, including hybridization probes, enzymes, antibodies, and drugs.

Guidelines for Use

Goat Anti-mouse IgG Agarose

The goat anti-mouse IgG (H+L) agarose is supplied as a sedimented gel suspended in 0.1 M sodium phosphate, 0.1 M NaCl, pH 7.5, containing 2 mM sodium azide. Store the suspension at 4°C. **Do not freeze.** Each ml of goat anti-mouse IgG (H+L) agarose binds 1–1.5 mg of mouse IgG.

Brief instructions for use are listed below. Use this protocol as a starting point.

- 1.1 Wash the agarose with the buffer which will be used in the experiment. Wash with approximately 100X the volume of resin to be used. Pack a column of the appropriate size with goat anti-mouse IgG (H+L) agarose with phosphate buffered saline or other buffer of choice.

- 1.2 Adjust the pH of mouse serum, ascites, or immunoglobulin to pH 8.0.
- 1.3 Load the sample onto the column packed with goat anti-mouse IgG (H+L) agarose.
- 1.4 Wash column with 1 M sodium chloride to remove non-specific binding proteins.
- 1.5 Elute with 0.1 M glycine, 0.5 M NaCl pH 2.5. Neutralize the purified antibody immediately with 1 M Tris buffer, pH 8.4.
- 1.6 Equilibrate the column with phosphate buffered saline and add bacteriostatic agent such as merthiolate, after each use. Store packed column at 4°C.

Streptavidin Agarose

The streptavidin agarose is as sedimented gel suspended in 0.1 M sodium phosphate, 0.1 M NaCl, pH 7.5, containing 2 mM sodium azide. Store the suspension at 4°C. **Do not freeze.**

The binding capacity of the streptavidin agarose conjugate is measured in an assay using fluorescein biotin (Cat. no. B-1370). Typically, the streptavidin agarose conjugate binds 15–20 µg (18–24 nanomoles) of fluorescein biotin (MW 831) per mL of sedimented gel.

Streptavidin Acrylamide

Streptavidin acrylamide conjugate is supplied in a unit size of 1 mg. Store desiccated at –20°C.

Prepare 2 mg/mL streptavidin acrylamide solutions by dissolving the powder in phosphate-buffered saline (PBS) or other suitable buffers. Once in solution, aliquot the product into smaller aliquots and store at –20°C.

References

1. J Chromatogr 510, 3 (1990); 2. J Cell Biol 125, 661 (1994); 3. BioTechniques 27, 592 (1999); 4. Nucleic Acids Res 27, 649 (1999).

Product List Current prices may be obtained from our website or from our Customer Service Department.

Cat. no.	Product Name	Unit Size
A10516	goat anti-mouse IgG (H+L) agarose *sedimented bead suspension*	2 mL
S21379	streptavidin acrylamide	1 mg
S951	streptavidin agarose *sedimented bead suspension*	5 mL
<i>Related Products</i>		
B1370	5-((N-(5-(N-(6-(biotinoyl) amino)hexanoyl)amino)pentyl) thioureidyl)fluorescein (fluorescein biotin)	5 mg

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