



# Imgen BioSciences, Inc.

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## B-1005: Streptomycin-Agarose 6B

<b>Product Name:</b>	Streptomycin-Agarose 6B
<b>Catalogue No:</b>	B-1005
<b>Antigen/Ligand:</b>	Streptomycin
<b>Antigen/Ligand Concentration:</b>	Not determined
<b>Bead Structure:</b>	6% agarose
<b>Bead Size Range:</b>	45-165 $\mu\text{m}$
<b>Mean Bead Size:</b>	90 $\mu\text{m}$
<b>Linker:</b>	1,4- <i>bis</i> (2,3-epoxypropoxy-)butane
<b>Linker Space:</b>	12 atoms
<b>Size:</b>	1 g
<b>Form:</b>	Lyophilized powder (stabilized with lactose and dextran)
<b>Swelling:</b>	1 g swells to 3-4 ml
<b>Binding Capacity:</b>	Antibodies: 15-20 mg/ml of drained gel; Streptomycin binding RNA: not determined
<b>Max Linear Flow Rate*:</b>	75 cm/h at 25°C, HR 16/10 column, 5 cm bed height
<b>Storage Temp:</b>	Keep at 2-8°C.
<b>Applications:</b>	Used as capture antigen/ligand for the separation or purification of streptomycin binding agents such as streptomycin binding RNA and streptomycin-specific antibodies by affinity chromatography and/or pull down assay.

**Brief description:**

Dihydrostreptomycin is covalently conjugated to 6% beaded agarose. One or more of amino and hydroxyl groups in the streptomycin are directly linked to the active epoxy groups of on the epoxy-activated agarose 6B. There is 19 to 40  $\mu\text{mole}$  epoxy group/ml of drained agarose 6B gel. For coupling the ligand/antigen 5 volume of coupling solution containing 3 mM dihydrostreptomycin are added per gram dry weight of epoxy-activated agarose 6B (there is approximately 3.5 ml swollen agarose 6B gel in the solution.). Assuming 33% of coupling efficiency, the final antibiotic concentration is 1  $\mu\text{mole/ml}$  of drained agarose gel (ref: Windbichler N & Schroeder R. Isolation of specific RNA-binding proteins using the streptomycin-binding RNA aptamer. Nat Protoc. 1: 637-640, 2006).

PLEASE note that this product is intended for research use only; not for diagnostic or clinical use.

\*Linear flow rate (cm/hr) = volumetric flow rate ( $\text{cm}^3/\text{min}$ ) X 60min/Cross sectional area of column ( $\text{cm}^2$ )

(Updated September, 2011)