



# Imgen BioSciences, Inc.

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## **B-1003: Gentamicin-Agarose 4B**

<b>Product Name:</b>	Gentamicin-Agarose 4B
<b>Catalogue No:</b>	B-1003
<b>Antigen/Ligand:</b>	Gentamicin
<b>Antigen/Ligand Concentration:</b>	Not determined
<b>Bead Structure:</b>	4% agarose
<b>Bead Size Range:</b>	45-165 $\mu$ m
<b>Mean Bead Size:</b>	90 $\mu$ m
<b>Linker:</b>	6-aminohexanoic acid
<b>Linker Space:</b>	8 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; BPBs: 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 ligand/antigen for the separation or purification of gentamycin binding proteins and/or antibodies specific to gentamycin by affinity chromatography and/or pull down assay.

**Brief description:**

Gentamycin sulfate salt is covalently conjugated to 4% beaded agarose. The one or more of 4 amino groups in the gentamycin are directly linked to the active group of N-hydroxysuccinimide on the pre-activated CH-agarose. This product is produced specifically for the binding of gentamycin binding agents such as HSP73 (ref: Miyazaki T et al. 73-kDa molecular chaperone HSP73 is a direct target of antibiotic gentamycin. JBC. 279: 17295-17300, 2004).

There is approximately 15  $\mu$ mole of active hydroxycuccinidie group/ml of drained agarose 4B gel. For coupling the ligand/antigen, 1 volume of coupling buffer containing 100 mM gentamicin sulfate is added to a same volume of swollen agarose 4B gel. Assuming 30% of active hydroxycuccinidie group is crosslinked with gentamicin which has 4 amino groups per molecule, the final concentration of gentamicin is 1.1 to 4.5  $\mu$ mole/ml of drained agarose gel.

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 (cm<sup>3</sup>/min) X 60min/Cross sectional area of column (cm<sup>2</sup>)

(Updated September, 2011)