



# Imgen BioSciences, Inc.

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## B-1009: Cefalexin-Agarose 4B

<b>Product Name:</b>	Cefalexin-Agarose 4B
<b>Catalogue No:</b>	B-1009
<b>Antigen/Ligand:</b>	Cefalexin
<b>Antigen/Ligand Concentration:</b>	Not determined
<b>Bead Structure:</b>	4% agarose
<b>Bead Size Range:</b>	45-165 $\mu\text{m}$
<b>Mean Bead Size:</b>	90 $\mu\text{m}$
<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 antigen/ligand for the separation or purification of penicillin binding proteins (PBPs) and antibodies specific to cefalexin by affinity chromatography and/or spin down.

**Brief description:**

Cefalexin hydrate is covalently conjugated to 4% beaded agarose. One or three amine groups in the cefalexin 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 cefalexin binding agents such as penicillin binding proteins (PBPs) and cefalexin-specific antibodies.

There is approximately 15  $\mu\text{mole}$  of active hydroxycuccinidie group/ml of drained agarose 4B gel. For coupling the ligand/antigen, 1 volume of coupling buffer containing 100 mM cefalexin sodium is added to a same volume of swollen agarose 4B gel. Assuming 30% of active hydroxycuccinidie group is crosslinked with cefalexin that has 3 amine groups per molecule, the final concentration of cefalexin is 4.5  $\mu\text{mole/ml}$  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 ( $\text{cm}^3/\text{min}$ ) X 60min/Cross sectional area of column ( $\text{cm}^2$ )

(Updated April, 2013)