



Imgen BioSciences, Inc.

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B-1010: Ceftazidime-Agarose 4B

Product Name:	Ceftazidime-Agarose 4B
Catalogue No:	B-1010
Antigen/Ligand:	Ceftazidime
Antigen/Ligand Concentration:	Not determined
Bead Structure:	4% agarose
Bead Size Range:	45-165 μm
Mean Bead Size:	90 μm
Linker:	6-aminohexanoic acid
Linker Space:	8 atoms
Size:	1 g
Form:	Lyophilized powder (stabilized with lactose and dextran)
Swelling:	1 g swells to 3-4 ml
Binding Capacity:	Antibodies: 15-20 mg/ml of drained gel; BPBs: not determined
Max Linear Flow Rate*:	75 cm/h at 25°C, HR 16/10 column, 5 cm bed height
Storage Temp:	Keep at 2-8°C.
Applications:	Used as capture antigen/ligand for the separation or purification of antibodies specific to ceftazidime by affinity chromatography and/or spin down.

Brief description:

Ceftazidime hydrate is covalently conjugated to 4% beaded agarose. The amine group in the ceftazidime is directly linked to the active group of N-hydroxysuccinimide on the pre-activated CH-agarose. This product is produced specifically for the binding of ceftazidime binding agents such as penicillin binding proteins (PBPs) and ceftazidime-specific antibodies.

There is approximately 15 μmole of active hydroxycuccinidie group/ml of drained agarose 4B gel. For coupling the ligand/antigen, 1 volume of coupling buffer containing 100 mM Ceftazidime sodium is added to a same volume of swollen agarose 4B gel. Assuming 30% of active hydroxycuccinidie group is crosslinked with ceftazidime that has only 1 amino group per molecule, the final concentration of Ceftazidime 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 (cm^3/min) X 60min/Cross sectional area of column (cm^2)

(Updated April, 2013)