

## I-3001: Ampicillin-BSA Conjugate

<b>Product Name:</b>	Ampicillin-BSA Conjugate
<b>Catalogue No:</b>	I-3001
<b>Conjugation method:</b>	EDC
<b>Linker:</b>	None
<b>Number of Ampicillin per BSA:</b>	Not determined
<b>Concentration:</b>	2.0 mg/ml BSA (in 20 mM PBS, pH 7.4)
<b>Storage:</b>	Keep below -20°C for up to 1 year. Avoid repeated freeze-and-thaw. For short term storage (< 3 weeks) keep at 4°C.
<b>Applications:</b>	Used as capture antigen for the detection of anti-ampicillin antibodies and as immunogen for the generation of ampicillin antibodies.

### Brief description:

The ampicillin sodium salt and BSA (bovine serum albumin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. The carboxyl group in the ampicillin is directly linked to an amine group in the BSA, and/or a carboxyl group in the BSA is directly linked to the amine group in the ampicillin, without any linker by EDC conjugation method. Given the molecular weights of ampicillin sodium salt and BSA are 371.39 Da and 66.4 kDa, respectively, the molar ratio of ampicillin:BSA in the conjugation solution is 179:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of ampicillin that is actually conjugated to each BSA molecule is not determined.

The ampicillin-BSA conjugate has been shown to be recognized by ampicillin-specific antibodies by ELISA and lateral flow based immunoassay, respectively.

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

(Produced by Imgen BioSciences, Inc., July, 2010)