

I-3004: Gentamicin-BSA Conjugate

Product Name:	Gentamicin-BSA Conjugate
Catalogue No:	I-3004
Conjugation method:	EDC
Linker:	None
Number of Gentamicin per BSA:	Not determined
Concentration:	2.0 mg/ml BSA (in 20 mM PBS, pH 7.4)
Storage:	Keep below -20°C for up to 1 year. Avoid repeated freeze-and-thaw. For short term storage (< 3 weeks) keep at 4°C.
Applications:	Used as capture antigen for the detection of anti-gentamicin antibodies and as immunogen for the generation of gentamicin antibodies.

Brief description:

The gentamicin sulfate and BSA (bovine serum albumin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. One or more of the four amine groups in the gentamicin are directly linked to carboxyl group(s) in the BSA without any linker by EDC conjugation method. Given the molecular weights of gentamicin sulfate and BSA are 449.5 - 477.6 Da and 66.4 kDa, respectively, the molar ratio of gentamicin:BSA in the conjugation solution is 139 - 148:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of gentamicin that is actually conjugated to each BSA molecule is not determined.

The gentamicin-BSA conjugate has been shown to be recognized by gentamicin-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)