

I-3003: Penicillin G-BSA Conjugate

Product Name:	Penicillin G-BSA Conjugate
Catalogue No:	I-3003
Conjugation method:	EDC
Linker:	None
Number of Penicillin G 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-penicillin G antibodies and as immunogen for the generation of penicillin G antibodies.

Brief description:

The penicillin G (benzylpenicillin) 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 penicillin G is directly linked to an amine group in the BSA without any linker by EDC conjugation method. Given the molecular weights of penicillin G and BSA are 334.4 Da and 66.4 kDa, respectively, the molar ratio of penicillin G:BSA in the conjugation solution is 199:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of penicillin G that is actually conjugated to each BSA molecule is not determined.

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