I-3010: Tetracycline-BSA Conjugate

Product Name:	Tetracycline-BSA Conjugate
Catalogue No:	I-3010
Conjugation method:	EDC
Linker:	None
Number of Tetracycline per BSA:	Not determined
Concentration:	2.0 mg/ml BSA (in 20 mM PBS, pH 7.4)
Storage:	Keep below -20^{o}C for up to 1 year. Avoid repeated freeze-and-thaw. For short term storage (< 3 weeks) keep at 4^{o}C.
Applications:	Used as capture antigen for the detection of anti-tetracycline antibodies and as immunogen for the generation of tetracycline antibodies.

Brief description:

The tetracycline and BSA (bovine serum albumin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. The amine group in the tetracycline is directly linked to a carboxyl group in the KLH without any linker by EDC conjugation method. Given the molecular weights of tetracycline hydrochloride and BSA are 480.9 Da and 66.4 kDa, respectively, and the molar ratio of tetracycline:BSA in the conjugation solution is 138:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of tetracycline that is actually conjugated to each BSA molecule is not determined.

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

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

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