I-3026: Amoxicillin-KLH Conjugate

Product Name:	Amoxicillin-KLH Conjugate
Catalogue No:	I-3026
Conjugation method:	EDC
Linker:	None
Number of Amoxicillin per KLH:	Not determined
Concentration:	Approximately 2.0 mg/ml KLH (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 immunogen for the generation of anti-amoxicillin antibodies.

Brief description:

The amoxicillin and KLH (keyhole limpet hemocyanin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. The carboxyl group in the amoxicillin is directly linked to an amine group in the KLH, and/or a carboxyl group in the KLH is directly linked to the amine group in the amoxicillin, without any linker by EDC conjugation method. Given the molecular weights of amoxicillin and KLH are 365.4 Da and 8,000 – 9,000 kDa, respectively, the molar ratio of amoxicillin:KLH in the conjugation solution is 21894 - 24631:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of amoxicillin that is actually conjugated to each KLH molecule is not determined.

The amoxicillin-KLH conjugate has been successfully used as an immunogen in inducing amoxicillin specific antibodies in mice.

Due to its high molecular weight and its tendency to form aggregates, the conjugate is not completely soluble in the buffer that it is in. Therefore, it is strongly recommended to vigorously vortex immediately prior to aliquot or use.

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

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