



Tetracycline [BSA] (DAG4474)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Tetracycline, BSA-conjugate
Antigen 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.
Species	N/A
Conjugate	BSA
Applications	Used as capture antigen for the detection of anti-tetracycline antibodies and as immunogen for the generation of tetracycline antibodies. The tetracycline, BSA-conjugate has been shown to be recognized by tetracycline-specific antibodies by ELISA and lateral flow based immunoassay.
Format	Liquid
Concentration	2.0 mg/ml BSA
Size	1 mg
Buffer	Supplied in 20 mM PBS, pH 7.4
Preservative	None
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.

BACKGROUND

Introduction Tetracycline (INN) is a broad-spectrum polyketide antibiotic produced by the Streptomyces genus of Actinobacteria, indicated for use against many bacterial infections. It is a protein synthesis inhibitor. It is commonly used to treat acne today, and, more recently, rosacea, and is historically important in reducing the number of deaths from cholera. Tetracycline is marketed under the brand names Sumycin, Tetracyn, and Panmycin, among others. Actisite is a thread-like fiber formulation used in dental applications. It is also used to produce several semisynthetic derivatives, which together are known as the tetracycline antibiotics. The term "tetracycline" is also used to denote the four-ring system of this compound; "tetracyclines" are related substances that contain the same four-ring system.

Keywords Tetracycline
