

Amoxicillin, BSA-conjugate

DAG4461 chemosynthetic

Lot. No. (See product label)

PRODUCT INFORMATION

Product overview	Amoxicillin, BSA-conjugate
Description	The amoxicillin 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 amoxicillin is directly linked to an amine group in the BSA, and/or a carboxyl group in the BSA is directly linked to t
Species	chemosynthetic
Conjugate	BSA
Applications	The amoxicillin, BSA-conjugate has been shown to be recognized by amoxicillin-specific antibodies by ELISA and lateral flow based immunoassay, respectively.
Usage	Used as capture antigen for the detection of anti-amoxicillin antibodies and as immunogen for the generation of amoxicillin antibodies.
Notes	for research use only

PACKAGING

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.
Concentration	2.0 mg/ml
Buffer	BSA(in 20 mM PBS, pH 7.4)

BACKGROUND

Introduction	Amoxicillin is an antibiotic that belongs to a class of antibiotics called penicillins. Other members of this class include ampicillin, piperacillin, ticarcillin and a several others. These antibiotics are very similar to penicillin. They stop bacteria from growing and multiplying by preventing the bacterial cells from forming the wall that surrounds them. Amoxicillin is effective against many different bacteria including H. influenzae, N. gonorrhoea, E. coli, Pneumococci, Streptococci, and certain strains of Staphylococci.
Keywords	Amoxicillin; amoxycillin; 6-[d(-)-alpha-amino-p-hydroxyphenylacetamido]penicillanic acid; abicyclo[3.2.0]heptane-2-carboxylic acid trihydrate; alpha-amino-p-hydroxybenzylpenicillin; amolin; amopenixin; amoxi; amoxicillin standard solution; amoxicillin trihydrate

REFERENCES

1. Thornhill, MH; Dayer, MJ, Forde, JM, Corey, GR, Chu, VH, Couper, DJ, Lockhart, PB (2011-05-03). "Impact of the NICE guideline recommending cessation of antibiotic prophylaxis for prevention of infective endocarditis: before and after study". BMJ (Clinical research ed.) 342: d2392. doi:10.1136/bmj.d2392. PMC 3086390. PMID 21540258.
2. American Academy of Allergy, Asthma, and Immunology. "Five Things Physicians and Patients Should Question". Choosing Wisely: an initiative of the ABIM Foundation (American Academy of Allergy, Asthma, and Immunology). Retrieved August 14, 2012.