



Streptomycin [BSA] (DAG4472)

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

PRODUCT INFORMATION

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| Product Overview | Streptomycin, BSA-conjugate |
| Antigen Description | The streptomycin sulfate salt and BSA (bovine serum albumin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. One or both of the two amine groups in the streptomycin are directly linked to carboxyl group(s) in the BSA without any linker by EDC conjugation method. Given the molecular weights of streptomycin sulfate salt and BSA are 728.69 Da and 66.4 kDa, respectively, the molar ratio of streptomycin:BSA in the conjugation solution is 91:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of streptomycin 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-streptomycin antibodies and as immunogen for the generation of streptomycin antibodies. The streptomycin, BSA-conjugate has been shown to be recognized by streptomycin-specific antibodies by ELISA and lateral flow based immunoassay, respectively. |
| 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

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| Introduction | Streptomycin is an antibiotic (antimycobacterial) drug, the first of a class of drugs called aminoglycosides to be discovered, and it was the first cure for tuberculosis. It is derived from the actinobacterium Streptomyces griseus. Streptomycin is a bactericidal antibiotic. Adverse effects of this medicine are ototoxicity, nephrotoxicity, fetal auditory toxicity, and neuromuscular paralysis. |
| Keywords | Streptomycin |