



## Sulfadimidine [BSA] (DAG4473)

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

### PRODUCT INFORMATION

<b>Product Overview</b>	Sulfadimidine, BSA-conjugate
<b>Antigen Description</b>	The sulfadimidine 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 sulfadimidine is directly linked to a carboxyl group in the BSA without any linker by EDC conjugation method. Given the molecular weights of sulfadimidine and BSA are 278.33 Da and 66.4 kDa, respectively, and the molar ratio of sulfadimidine:BSA in the conjugation solution is 239:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of sulfadimidine that is actually conjugated to each BSA molecule is not determined.
<b>Species</b>	N/A
<b>Conjugate</b>	BSA
<b>Applications</b>	Used as capture antigen for the detection of anti-sulfadimidine antibodies and as immunogen for the generation of sulfadimidine antibodies. The sulfadimidine, BSA-conjugate has been shown to be recognized by sulfadimidine-specific antibodies by ELISA and lateral flow based immunoassay.
<b>Format</b>	Liquid
<b>Concentration</b>	2.0 mg/ml BSA
<b>Size</b>	1 mg
<b>Buffer</b>	Supplied in 20 mM PBS, pH 7.4
<b>Preservative</b>	None
<b>Storage</b>	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**

Sulfamethazine is a sulfa drug used like sulfadiazine and also in veterinary medicine to treat a variety of infections. It is an antibacterial agent. Sulfonamides have been widely used in the treatment and prevention of infections such as urinary tract infections, chlamydia, rheumatic fever, toxoplasmosis and malaria. The development of resistance in many of these organisms has greatly limited the clinical usefulness of these drugs.

**Keywords**

2 (p aminobenzenesulfonamido) 4 6 dimethylpyrimidine; 2 sulfanilamido 4 6 dimethylpyrimidine; sulphamethazine; Sulfamethazine