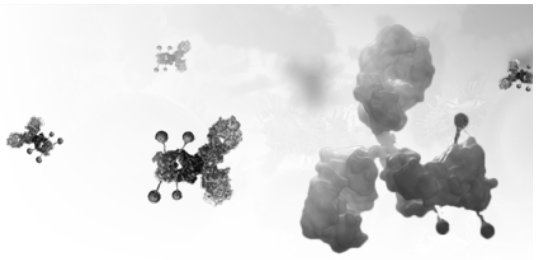

# Bacitracin [BSA] (DAG4464)

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

## PRODUCT INFORMATION

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| **Product Overview** | Bacitracin, BSA-conjugate |
| **Antigen Description** | The bacitracin zinc salt and BSA (bovine serum albumin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. One or more of the three amine groups in the bacitracin are directly linked to carboxyl group(s) in the BSA without any linker by EDC conjugation method. Given the molecular weights of bacitracin zinc salt and BSA are 1486.07 Da and 66.4 kDa, respectively, the molar ratio of bacitracin:BSA in the conjugation solution is 45:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of bacitracin 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-bacitracin antibodies and as immunogen for the generation of bacitracin antibodies. |
| **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** | Bacitracin is a mixture of related cyclic polypeptides produced by organisms of the licheniformis group of Bacillus subtilis var Tracy, first isolated in 1945. These peptides disrupt both gram positive and gram negative bacteria by interfering with cell wall and peptidoglycan synthesis. Bacitracin is used as a topical preparation (since it is toxic and has poor oral bioavailability). In terms of adverse reactions only, in comparison with bacitracin, white petrolatum possesses an equally low infection rate and minimal risk for induction of allergy. |
| **Keywords** | Bacitracin |

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