

Ampicillin

Product	Con.	Cat#	Size
Ampicillin (100 mg/ml)	100 mg/ml	IBS-BA021	20ml

Components : Ampicillin (100 mg/ml)

Storage Conditions : Freeze

Introduction : Ampicillin is a β -lactam antibiotic with an amino group side chain attached to the penicillin structure.

Ampicillin, which is a semi-synthetic derivative of penicillin, inhibits cell wall synthesis (peptidoglycan crosslinking) by inactivating transpeptidases on the inner surface of the bacterial cell membrane in Gram-negative and Gram-positive bacteria.^{2,3} Cleavage of the β -lactam ring of ampicillin by β -lactamase results in bacterial resistance to this antibiotic

Procedure

The product can be added to an agar or culture medium, which has been autoclaved and cooled to 45–50 °C. Culture plates with ampicillin can be stored at 2–8 °C for up to two weeks. The recommended concentration for antibacterial use in culture media is ~100 mg/ml (a 1000-fold dilution of the product).

The recommended concentration for use in ampicillin resistance studies is 20–125 mg/ml.