

Ampicillin Solution

With 100mg/ml Ampicillin sodium salt in sterile tissue culture grade water

Product Code: A023

Product Description :

Molecular Formula: C₁₆H₁₈N₃NaO₄S Molecular Weight: 371.4 CAS No: 69-52-3

Ampicillin (D-(-)-#-Aminobenzylpenicillin sodium salt) is a beta-lactam antibiotic with an amino group attached to the penicillin structure. Ampicillin is effective against Gram positive and some Gram negative bacteria. The presence of amino group helps the antibiotic to penetrate the outer membrane of the Gram negative bacteria. Ampicillin inhibits the enzyme transpeptidase which is required for cell wall synthesis. It binds to the penicillin binding proteins and acts as an analogue of acyl-D-alanyl-D-alanine, acylating the transpeptidase enzyme. Eventually inhibiting the cross-linking of peptidoglycan of the cell wall, the final stage of cell wall formation, and ultimately resulting in the lysis of the cell.

Ampicillin is used in cell culture as selective agent.

A023 is a sterile filtered solution formulated to contain 10 mg ampicillin per ml.

8.00 -11.00

Osmolality in mOsm/Kg H₂O

500.00 -600.00

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Cultural Response

No toxicity to cells.

Endotoxin Content

NMT 5EU/ml

Storage and Shelf Life:

Store at -20°C. Repeated freezing and thawing should be avoided. Once thawed, remaining portion can be aseptically dispensed into sterile container for future use.

Shelf life of the product is 18 months.

Use before expiry date given on the product label.

Directions :

Recommended use concentration is 100ml/L. Sensitive cell lines may react differently to this product. Hence it is recommended to determine optimum usage dose empirically for individual cell line.

Quality Control:

Appearance

Yellow suspension.

pH

Disclaimer :

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