

Technical Information

Carbenicillin Solution 100mg/ml

With 100mg/ml Carbenicillin in sterile tissue culture grade water

Product Code: A01019

Application:- Carbenicillin is a semi-synthetic analogue of the naturally occurring benzyl-penicillin. It belongs to the carboxypenicillin subgroup of penicillins. It is bactericidal and bacteriolytic in action. It acts by binding and inhibiting enzymes involved in the synthesis of the bacterial cell wall. Though more resistant than ampicillin, carbenicillin is susceptible to degradation by beta-lactamase enzymes. It is more stable at lower pH as compared to ampicillin. It is active against Gramnegative bacteria such as Pseudomonas aeruginosa, but has limited Gram-positive coverage. A01019 is a sterile solution that contains 100mg/ml of Carbenicillin in sterile tissue culture grade water.

Methodology

Recommended use concentration is 100µg/ml. 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

Clear, light yellow coloured solution

pH

5.80 -6.40

Osmolality in mOsm/Kg H₂O

650.00 -750.00

Carbenicillin concentration

100mg/ml.

Sterility

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

Cultural Response

1. No toxicity to cells.
2. Antibiotic sensitivity test

Endotoxin Content

NMT 0.5EU/ml

Storage and Shelf Life

Store at -20°C.

Shelf life of the product is 18 months.

Use before expiry date given on the product label.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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