

## Technical Information

### Gentamicin-Amphotericin B Solution 1000X

With 30 mg/ml Gentamicin and 25 µg/ml Amphotericin B in sterile tissue culture grade water

#### Product Code: A01031

##### Application:-

Gentamicin is a broad spectrum bactericidal agent of aminoglycoside group and is effective against gram positive bacteria and gram negative bacteria. Amphotericin B (also referred as Fungizone) is an antimycotic agent which is effective against fungi and yeasts. Amphotericin B binds with ergosterol and interferes with the cell membrane permeability of sensitive fungi and yeasts. The channels in the cell membrane cause leakage of cytoplasmic content leading to fungal death.

The use of Gentamicin-Amphotericin B (GA) is recommended to inhibit potential fungal or bacterial contamination of eukaryotic cell cultures. A01031 is a sterile solution of 30 mg/ml Gentamicin and 25 µg/ml Amphotericin B in sterile tissue culture grade water.

#### Methodology

Recommended concentration for use is 1ml/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, clear solution.

##### pH

5.00 – 6.00

##### Osmolality in mOsm/Kg H<sub>2</sub>O

50.00 – 100.00

##### Sterility

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

##### Gentamicin Concentration

30 mg/ml

##### Cultural Response

1. No toxicity to cells.
2. Antibiotic Susceptibility Test

##### Endotoxin Content

NMT 0.5EU/ml

#### Storage and Shelf Life

Store at -20°C. Stable at 2-8°C for approximately 2-3 weeks.

Shelf life of the product is 18 months.

Precipitate in this product is normal due to presence of Amphotericin. Slight precipitate may be visible if the bottles are not adequately warmed.

However the precipitate gets fully dissolved again on warming the solution at room temperature. Many times the precipitate redissolves on thoroughly mixing the solution. In case the precipitate does not fully resolubilize, the solution is still suitable for use.

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.
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.
- Do not use the products if it fails to meet specifications for identity and performance parameters.