

## Antibiotic-Antimycotic 100X

**CAT N°** : L0010

**Theoretical pH** :  $8.5 \pm 1$

**Osmolality** : 300 - 450 mOsm/kg

**Colour** : Yellow

**Storage conditions** : Frozen / Freeze again after using at  $-20^{\circ}\text{C}$

**Shelf life** : 24 month

**Sterility tests** :

- bacteria aerobic-anaerobic
- bacteria strictly anaerobic
- fungi

**Endotoxin** : <10 EU/ml

**Composition** : meet special formulation sheet

**Potency of the penicillin in solution**: 10 000 000 U/l

**Recommended use** : Dilute with adequate buffer or cell culture medium 1:100

- Respect storage conditions of the product
- Do not use the product after its expiry date
- Store product in an area protected from light
- Manipulate the product in aseptic conditions (e.g. : under laminar air flow)
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g. : gloves, mask, hygiene cap, overall...)
- In order to preserve all product qualities, it is recommended to thaw out the flask, to aliquote, then to re-freeze the produced flasks rather than to thaw out and re-freeze the flask at each use.
- It is recommended to use the product immediately after its thaw out.

The product is intended to be used in vitro, in laboratory only. Do not use it in therapy, human or veterinary applications.

**Toxicity** : Toxic effects will appear at 30  $\mu\text{g}/\text{ml}$  for mammalian cells

**Application:**

For tissue culture to prevent growth of bacteria (gram positive and gram negative), yeast and fungi.

Penicillin acts by inhibiting bacterial cell wall synthesis.

Streptomycin inhibits prokaryote protein synthesis by preventing the transition from initiation complex to chain-elongating ribosome and causes miscoding.

Amphotericin B interferes with fungal membrane permeability by forming channels in the membranes and causing small molecules to leak out.

**Utilisation:**

Use at 10ml/l