

Penicillin-Streptomycin-Amphotericin B Reagent

Penicillin-Streptomycin-Amphotericin B solution (100x)

CATALOG #
AAA177036

PRODUCT SYNONYMS

Penicillin-Streptomycin-Amphotericin B; Penicillin-Streptomycin-Amphotericin B solution (100x); Penicillin-Streptomycin-Amphotericin B reagent

PRODUCT SPECIFICATIONS

Form/Format	Liquid. 10mM PBS (pH6.2)
Concentration	100x (varies by lot)
pH	6.1-6.4
Amphotericin B	25ug/mL
Dissolvent	10mM PBS (PH 6.2)
Streptomycin sulfate	10mg/mL
Penicillin G	10kU/mL
Preparation and Storage	Store at -20°C, shading light

ADDITIONAL INFORMATION

Related Product Information for Penicillin-Streptomycin-Amphotericin B reagent	Background: Penicillin-streptomycin solution mixture is the most commonly used antibiotic to prevent microbial contamination in vitro. Penicillin can interfere with the synthesis of bacterial cell wall, especially for Gram-positive bacteria. Streptomycin could bind to ribosomal ribosome for 30S and inhibit the synthesis of bacterial protein. It was effective for Gram-negative bacteria and Gram-positive bacteria, but especially for Gram-negative bacteria. Amphotericin B can bind with ergosterol on the membrane of fungi, leading to damage of the membrane, improvement of permeability, leakage of substances inside the cell, disruption of normal metabolism and bacteriostatic effect, but no effect on bacteria. The combined use of penicillin, streptomycin & amphotericin B can prevent most bacterial and fungus contamination. But penicillin solution is sensitive to temperature and pH, easy to degrade at room temperature, and needs cryopreservation, the stability of penicillin solution is the most stable when pH is 6.0 - 6.5. Streptomycin was relatively stable, and pH 5.0-7.5 was the most stable. Amphotericin B solution is unstable at room temperature, easily destroyed by light, heat and acid, and has the strongest antibacterial effect at pH 6.0 - 7.5.
Product Categories/Family for Penicillin-Streptomycin-Amphotericin B reagent	Reagents

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/reagent/penicillin-streptomycin-amphotericin-b/177036>