



## Product Information

### ANTIBIOTIC ANTIMYCOTIC SOLUTION (100X)

Product Number **A9909**

Storage Temperature  $-0^{\circ}\text{C}$

#### Product Description

Appearance: Yellow Suspension

Antibiotic Antimycotic Solution is a suspension comprised of penicillin G sodium<sup>2</sup>, streptomycin sulfate<sup>3</sup>, and amphotericin B.<sup>4</sup> This combination of components at specific concentrations is sufficient to inhibit growth of most gram-positive, gram-negative and fungal growth. At the 100X concentration the suspension contains approximately 10,000 units of penicillin G, 10 mg of streptomycin, and 25 ug amphotericin B per milliliter.<sup>1</sup>

#### Precautions and Disclaimer

This product contains penicillin. Proper handling procedures should be observed.<sup>1</sup>

#### Preparation Instructions

The product is supplied at a 100x solution. Allow solution to thaw slowly at refrigerated or ambient temperatures. Do not thaw in warm water bath. When thawed, add 10 ml of suspension to 990 ml of sterile medium to make 1 L.<sup>1</sup>

#### Storage/Stability

The frozen product has a shelf life of 18 months. The lot expiration is noted in the upper left corner of the label.

After thawing, the solution should remain stable for approximately 5-7 days at  $2-8^{\circ}\text{C}$ . In culture at  $37^{\circ}\text{C}$  the shelf life is estimated at 3 days.<sup>1</sup>

#### Specificity

Penicillin G Sodium will effectively treat for gram-positive bacteria, gram negative cocci, a few gram-negative bacteria, spirochetes, and actinomycetes.<sup>2</sup>

Streptomycin Sulfate will effectively treat most gram-negative bacterial as well as mycobacterium tuberculosis. More resistance to this compound may be observed.<sup>3</sup>

Amphotericin B will effectively treat fungal contaminants including yeast and molds. It is also effective against several protozoans, ex. Leishmania.<sup>4</sup>

#### References

1. Sigma data
2. Martindale: The Extra Pharmacopoeia, 31st Ed.(Pharmaceutical Press, 1996), p.180.
3. Martindale: The Extra Pharmacopoeia, 31st Ed.(Pharmaceutical Press, 1996), p.275.
4. Martindale: The Extra Pharmacopoeia, 31st Ed.(Pharmaceutical Press, 1996), p.398.

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