

<b>Catalog</b>	<b>Unit Size</b>
TBS8077-5ML	5 mL
TBS8077-50ML	50 mL

**DESCRIPTION**

Ampicillin is a broad-spectrum  $\beta$ -lactam antibiotic belonging to the penicillin class. It functions by inhibiting bacterial cell wall synthesis through binding to penicillin-binding proteins (PBPs), leading to cell lysis. This mechanism renders it effective against a wide range of Gram-positive and Gram-negative bacteria. The solution is commonly used in microbiological and cell culture applications.

Alternative names: Aminobenzylpenicillin, Ampicillin, D-(-)- $\alpha$ -Aminobenzylpenicillin sodium salt

**SPECIFICATION**

- Form: Liquid
- Sterility: 0.2  $\mu$ m filtered
- Concentration: 100 mg/mL
- Solubility: DMSO: 100 mg/mL

**APPLICATION**

- Selective agent in microbiological media isolate and maintain ampicillin-resistant bacterial strains.
- Prevents growth of non-resistant bacteria in cell culture systems, ensuring purity of cultures.
- Utilized in molecular biology for the selection of recombinant organisms containing plasmids with ampicillin resistance markers.

**PACK SIZE**

5 mL or 50 mL /bottle

**STORAGE**

The product can be stored at  $-20^{\circ}\text{C}$  from the date of manufacture for 6 months.

**RELATED PRODUCTS**

Cell Culture Grad Water (TBS5050)  
2x HBS, pH7.05 (TBS5076)  
0.1% Gelatin Solution (TBS8004)  
MSC Medium (TBS8021)  
MCF-7 Cell Complete Medium (TBS8047)  
LB Medium (TBS8056)  
SOB Medium (TBS8057)  
SOC Broth Medium (TBS8058)  
2xYT Broth Medium (TBS8059)  
Tryptic Soy Broth (TSB) Medium (TBS8065)  
Modified Tryptic Soy Broth (mTSB) Medium (TBS8066)  
DMEM Medium (TBS8061)  
Chondrogenic Differentiation Medium (TBS8062)  
RPMI-1640 (TBS8063)  
Hybridoma Growth Medium (TBS8074)  
DMEM-F12 Mixture (TBS8083)  
Collagen Type I Solution (TBS8096)

**Research Use Only**