

DATA SHEET

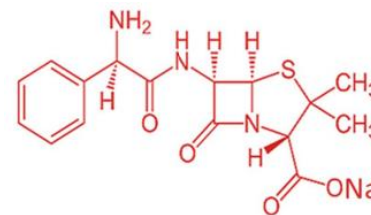
Version: 2
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1. Identification

Product name	Ampicillin Sodium Salt
	10 g
Cat. No	AB001

2. Description

Ampicillin is a penicillin-like antibiotic effective against gram-positive, gram-negative and anaerobic bacteria. Differs from penicillin only by the presence of an amino group. Like penicillin, ampicillin is susceptible to β -lactamase, which hydrolyzes the β -lactam ring. Ampicillin is widely used in cell culture as a selective agent. Inhibits bacterial cell-wall synthesis by inactivating transpeptidases on the inner surface of the bacterial cell membrane.

**D-(-)- α -Aminobenzylpenicillin · Na**

3. Specifications

- **CAS Number:** 69-52-3
- **MDL Number:** MFCD00064313
- **Chemical Formula:** C₁₆H₁₈N₃O₄S · Na
- **Molecular Weight:** 371.39 kDa
- **pH:** 8.0 – 10.0
- **Water content:** < 2.0%
- **Solubility H₂O:** soluble 50mg/mL (Stock solutions should be stored at -20 °C.)

4. Storage specifications

Store at 4°C.

5. Applications

Used to select for ampicillin resistance in mutated and transformed cells.

6. Further information

Product Use Limitation This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

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