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DATA SHEET

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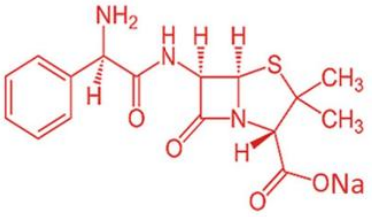
1. Identification

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 βlactamase, 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:** $C_{16}H_{18}N_3O_4S \cdot Na$
- **Molecular Weight:** 371.39 g/mol
- **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 the powder at 4 ˚C. After reconstitution, store stock solutions at −20 ˚C. Short-term storage at 4 ˚C is acceptable.

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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