TOCRIS
a bio-techne brand

Certificate of Analysis

www.tocris.com

Product Name: **Ampicillin sodium salt**

CAS Number: 69-52-3

IUPAC Name: (2*S*,5*R*,6*R*)-6-[[(2*R*)-2-Amino-2-phenylacetyl)amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid sodium salt

Catalog No.: 5503   **Batch No.: 2**

EC Number: 200-708-1

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1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{18}N_3NaO_4S$
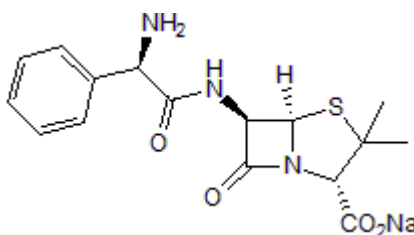
Batch Molecular Weight: 371.39

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 93.8% purity

Bacterial endotoxins: <0.15 EU/mg

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

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Description:
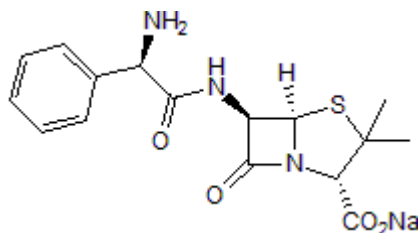Antibiotic. Widely used selection reagent for transformed cells expressing β-lactamase.

Physical and Chemical Properties:
Batch Molecular Formula: $C_{16}H_{18}N_3NaO_4S$

Batch Molecular Weight: 371.39

Physical Appearance: White solid

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:
water to 100 mM

Ampicillin is unstable at pH>7. The optimum pH range for using this compound is 3.8-5.

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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