

**A116**
**Ampicillin, Sodium Salt**

Synonyms: D(-)- $\alpha$ -Aminobenzylpenicillin, Sodium Salt

CAS: 69-52-3

Formula:  $C_{16}H_{18}N_3NaO_4S$

Mol. Weight: 371.39 g/mol

**Properties:**

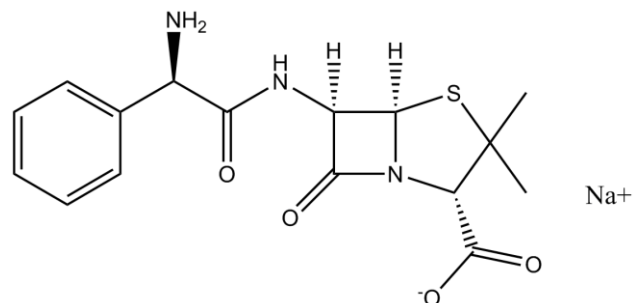
Form: Powder

Appearance: White to Off-White

Solubility: Soluble in Water and DMSO

Application: Molecular Biology

Storage Temp: -20°C


**Application Notes:**

Ampicillin is broad-spectrum  $\beta$ -lactam antibiotic. It is a semi-synthetic derivative of penicillin and has a similar mode of action to that of benzylpenicillin against gram-positive organisms; however, it is more effective against gram-negative. Ampicillin is most often used as a selection agent for cloning in *E.coli* and its resistance gene is generally denoted as  $amp^r$ , which contains a  $\beta$ -lactamase (*bla*) from the pBR322 plasmid (Sutcliffe 1978).

Please Note: It is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

**References:**

Merck **13**, 591

Sutcliffe JG (1978) Nucleotide sequence of the ampicillin resistance gene of *Escherichia coli* plasmid pBR322. *PNAS* Vol. 75(8):3737-3741.

Sweetman SC (2007) *Martindale: The Complete Drug Reference*, 35<sup>th</sup> Ed., p. 181-182

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