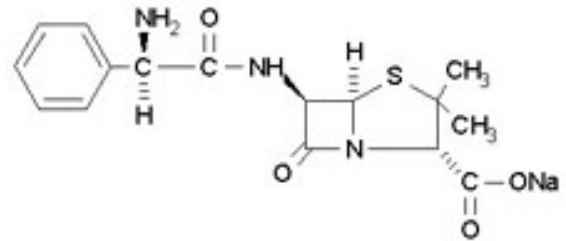


## Product Information Sheet

**A1116**

### Ampicillin Solution 100 mg/mL

Synonyms: D(-)- $\alpha$ -Aminobenzylpenicillin, Sodium Salt  
CAS: 69-52-3  
Formula:  $C_{16}H_{18}N_3NaO_4S$   
Mol. Weight: 371.4



#### Properties

Form: Clear Liquid  
Appearance: Colorless  
Solubility: Miscible with Water  
Application: Molecular Biology, Microbiology, Plant TC  
Storage Temp: -20 to 0 °C

#### Application Notes

Ampicillin is broad-spectrum beta-lactam antibiotic. It's 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 bacilli such as *Haemophilus influenza* and Enterobacteriaceae such as *Escherichia coli*.<sup>2,3</sup> Ampicillin's activity is inactivated in the present of beta-lactamases.<sup>2</sup>

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

1. Merck **13**, 591
2. Martindale: *The Complete Drug Reference*, 35<sup>th</sup> Ed., p. 181-182 (2007).
3. Sutherland, R. and G.N> Rolinson. 1964. Acitivity of ampicillin *in vitro* compared with other antibiotics. *J. Clin. Path.* 17:461.

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