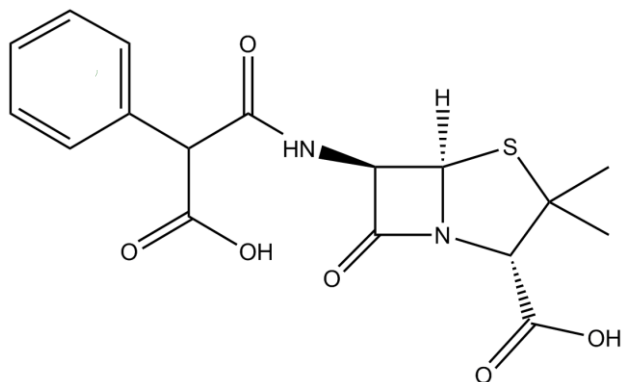




Product Information Sheet

C346

Carbenicillin, Disodium Salt



Synonym: α -Carboxybenzylpenicillin, Disodium Salt

CAS: 4800-94-6

Formula: $C_{17}H_{16}N_2O_6SNa_2$

Molecular Wt: 422.41

Properties:

Form: Powder

Appearance: White to Cream Powder

Application: Plant Tissue Culture Antibiotic

Solubility: Soluble in Water

Storage Temp: 2 to 6°C

Storage Temp of Stock Solution: -20°C

Application Notes:

Carbenicillin is a derivative of penicillin with a mode of action similar to benzylpenicillin. It is the most commonly used antibiotic for the elimination of *Argobacterium tumefaciens* due to its relatively low toxicity for a wide range of plant species. The typical concentration range for use is 100-500 mg/L in plant tissue culture. A concentration of 500 mg/L is recommended to achieve microbe toxicity; however, concentrations up to 1000 mg/L have been reported in plant tissue culture literature.

Please Note: While *PhytoTechnology Laboratories®* tests each lot of this product with two or more plant cell/ tissue culture lines, 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, 1801

Sweetman SC (ed) (2007), *Martindale: The Complete Drug Reference* 35. China: Pharmaceutical Press.

Nauerby B, Billing K, and Wyndaele R. (1997) Influence of the antibiotic timentin on plant regeneration compared to carbenicillin and cefotaxime in concentrations suitable for elimination of *Agrobacterium tumefaciens*. *Plant Science* Vol. 123(1-2) pg. 169-177.

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