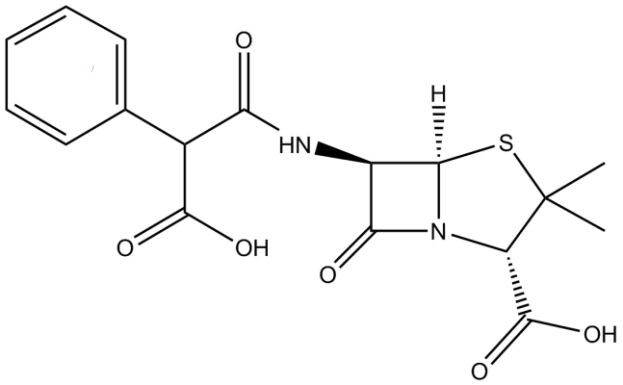
Product Information Sheet

C540
Carbenicillin Solution, 100 mg/mL



Synonym: α-Carboxybenzylpenicillin, Disodium Salt
CAS: 4800-94-6
Formula: $C_{17}H_{16}N_2O_6SNa_2$
Molecular Wt: 422.41

Properties:

Form:	Liquid
Appearance:	Clear, Colorless liquid
Application:	Plant Tissue Culture Antibiotic
Solubility:	Miscible with Water
Typical Working Concentration:	N/A
Storage Temp:	2 to 6° C
Other Notes:	Plant Tissue Culture Tested

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. 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 *Phyto*Technology 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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