



Product Information Sheet

C380 Cefotaxime, Sodium Salt

Synonym: (6R,7R)-3-[(Acetyloxy)methyl]-7-
[[[(2Z)-(2-amino-4-
thiazolyl)(methoxyimino)acetyl]
amino]-8-oxo-5-thia-1-
azabicyclo[4.2.0]oct-2-ene-2-
carboxylic Acid, Sodium Salt

CAS: 64485-93-4

Formula: C₁₆H₁₆N₅O₇S₂Na

MW: 477.4 g/mol

Properties:

Form: Powder

Appearance: White to Cream Powder

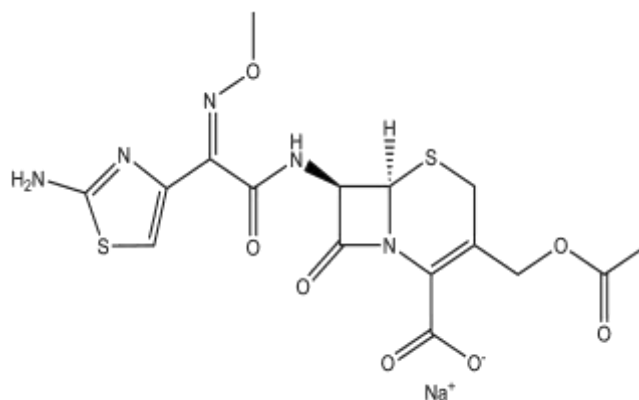
Application: Plant Tissue Culture Antibiotic

Solubility: Soluble in Water

Storage Temp: 2-6°C

Typical

Working Conc.: 100-500 mg/L



Application Notes:

Cefotaxime is a 3rd generation cephalosporin and a penicillin derivative. Its mode of action is through inhibiting cell wall synthesis. It is highly effective against Gram-negative bacteria. Cefotaxime is most often used to suppress *Agrobacterium tumefaciens* post-transformation at concentrations that generally range from 100-500 mg/L. It has been shown to be one of the more active antibiotics against *Agrobacterium* strain LBA4404 (Shackelford and Chlan, 1996).

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:

Shackelford NJ, and Chlan C (1996) Identification of antibiotics that are effective in eliminating 2 *Agrobacterium tumefaciens*. *Plant Molecular Biology Reporter* 14(1):50-57
Merck 13, 1946

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