



Product Information Sheet

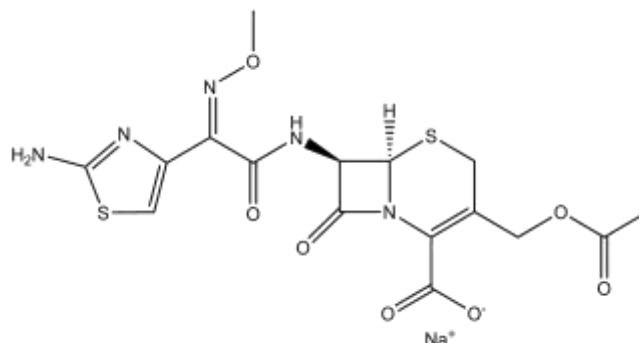
C380 Cefotaxime, Sodium Salt

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: 477.45 g/mol

Properties:

Form: Powder
Appearance: White to Cream Powder
Application: Plant Tissue Culture Antibiotic
Solubility: Soluble in Water
Storage Temp: 2-8°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).

PhytoTechnology Laboratories® also carries Cefotaxime solutions at 100 mg/mL, Product No. C537, and 250 mg/mL, Product No. C1880.

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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