



## Product Information Sheet

### C537 Cefotaxime Solution (100 mg/mL)

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

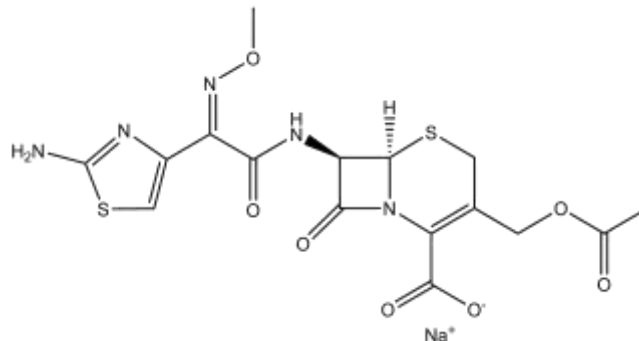
CAS: 64485-93-4

Formula: C<sub>16</sub>H<sub>16</sub>N<sub>5</sub>O<sub>7</sub>S<sub>2</sub>Na

MW: 477.45 g/mol

#### Properties:

Form: Liquid  
Appearance: Clear, Yellow  
Application: Plant Tissue Culture Antibiotic  
Solubility: Miscible with Water  
Storage Temp: -20°C  
Typical Working  
Concentration: 100-500 mg/L



#### Application Notes:

Cefotaxime is a 3<sup>rd</sup> 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 powder, Product No. C380, and a solution at 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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