Cefotaxime sodium salt

Product Number: C 7039
Storage Temperature: 2-8 °C

Product Description
Molecular Formula: C₁₆H₁₆N₅NaO₇S₂
Molecular Weight: 477.5
CAS Number: 64485-93-4
Synonym: Claforan

Cefotaxime is a broad spectrum antibiotic that inhibits the synthesis of bacterial cell walls. Chemically, it is closely related to the penicillins, but is not degraded by β-lactamases. Resistance is based on cephalosporinase production. Many bacteria possess naturally occurring cephalosporinas, which are induced in the presence of this product, rendering them resistant to the effects of cephalosporin compounds.¹ ²

A further discussion on the characteristics of this antibiotic such as a list of organisms affected by this product is available.²

This product is plant cell culture tested. It is typically used at 50-250 mg/L to enhance regeneration and shoot development (initiation and elongation).³

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
This product is soluble in water (50 mg/ml). It is practically insoluble in organic solvents. A 10% solution has a pH of between 4.5 and 6.5.²

References

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