



DIACEF

50 mg/ml suspension for injection

COMPOSITION

Ceftiofur (hydrochloride) 50 mg

Excipient to 1 ml



Ceftiofur is a third-generation cephalosporin, which is active against many Gram-positive and Gram-negative bacteria. Ceftiofur inhibits the bacterial cell wall synthesis, thereby exerting bactericidal properties.

Beta-lactams act by interfering with synthesis of the bacterial cell wall. Cell wall synthesis is dependent on enzymes that are called penicillin-binding proteins (PBP's). Bacteria develop resistance to cephalosporins by four basic mechanisms:

- Altering or acquiring penicillin binding proteins insensitive to an otherwise effective β -lactam;
- Altering the permeability of the cell to β -lactams;
- Producing β -lactamases that cleave the β -lactam ring of the molecule;
- Active efflux.

Some β -lactamases, documented in Gram-negative enteric organisms, may confer elevated MICs to varying degrees to third and fourth generation cephalosporins, as well as penicillins, ampicillins, β -lactam inhibitor combination and first and second generation cephalosporins.



WITHDRAWAL PERIOD

Cattle:

Meat and offal: 8 days
Milk: zero days

DOSAGE AND ADMINISTRATION ROUTE

Cattle:

- *Respiratory disease*: 1 mg ceftiofur/kg bw/day for 3-5 days subcutaneous injection, i.e. 1 ml/50 kg bw at each injection.
- *Acute interdigital necrobacillosis*: 1 mg ceftiofur/kg bw/day for 3 days subcutaneous injection, i.e. 1 ml/50 kg bw at each injection.
- *Post-partum metritis within 10 days after calving*: 1 mg ceftiofur/kg bw/day for 5 days subcutaneous injection, i.e. 1 ml/50 kg bw at each injection.



PRESENTATION

Vials of 100 ml and 250 ml



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