SPECTRAMAST® LC

Ceftiofur Hydrochloride

A first generation cephalosporin for the treatment of bovine clinical mastitis caused by Gram-negative bacteria, and for the treatment of subclinical infections caused by Staphylococcus, Streptococcus, and Escherichia coli.

Current Concepts of Bovine Mastitis, 1999

Streptococcus agalactiae, associated with coagulase-negative staphylococci, and Escherichia coli. The MIC and disk (30 µg) diffusion data from mastitis pathogens, the following Table 1. CLSI-Accepted Interpretive Criteria for Pirlimycin Against Bovine Mastitis Pathogens*

<table>
<thead>
<tr>
<th>Pathogen</th>
<th>Minimum Inhibitory Concentration (μg/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staphylococcus</td>
<td>0.03-1</td>
</tr>
<tr>
<td>Streptococcus</td>
<td>0.06-3</td>
</tr>
<tr>
<td>Escherichia coli</td>
<td>0.5-30</td>
</tr>
</tbody>
</table>

Pirlimycin functions by binding to the 50S ribosomal subunit of bacterial ribonucleic acid, which interferes with protein synthesis.

For Intramammary Infusion in Lactating Cows Only

Usually, treatment is accomplished by administrating 50 mg of Pirlimycin Hydrochloride into each affected quarter. Ceftiofur was formulated in stable cottonseed oil sterile suspension.

Method of Administration

1. Weakly insert the tip into the teat canal. Carefully push the plunger to dispense the contents of the syringe. Gently insert the tip into the teat canal. Carefully push the plunger to dispense the contents of the syringe.

2. Following infusion twice at a 24-hour interval, treated animals must not be slaughtered for 21 days."

3. Infusion:

   a. Partial insertion:

      5-Thia-1-azabicyclo [4.2.0] oct-2-ene-2-carboxylic acid, 7 - [\(\text{NH}_2\)] 2-(2-amino-4-oxo-3,4-dihydro-2H-pyridinyl)-6-oxo-1,6-di-3-thiazolidinecarboxylic acid, 5-Thia-1-azabicyclo [4.2.0] oct-2-ene-2-carboxylic acid, 7 - NH₂

   b. Partial insertion:

      5-Thia-1-azabicyclo [4.2.0] oct-2-ene-2-carboxylic acid, 7 - [\(\text{NH}_2\)] 2-(2-amino-4-oxo-3,4-dihydro-2H-pyridinyl)-6-oxo-1,6-di-3-thiazolidinecarboxylic acid, 5-Thia-1-azabicyclo [4.2.0] oct-2-ene-2-carboxylic acid, 7 - NH₂