**Sterile Powder** were demonstrated after intramuscular administration of 2.27 mg ceftiofur equivalents/lb (5.0 mg/kg) BW IM.

**DESCRIPTION**

**EXCENEL® RTU** Sterile Suspension is a ready-to-use formulation that contains the hydrochloride salt of ceftiofur, which is a broad spectrum cephalosporin antibiotic. The dosage is estimated based on total body weight (TWW). The dosage is 0.5 to 1.0 mg ceftiofur equivalents/lb (1.1 to 2.2 mg/kg) BW to be administered intramuscularly or subcutaneously at the dosage of 0.5 to 1.0 mg ceftiofur equivalents/lb (1.1 to 2.2 mg/kg) BW (5 to 10 mg/kg bodyweight) by intramuscular injection.

**GA**

*Substrate: Paper

A. French/KM

C. Andrews

FPO: 128

Glue

20" x 10"  Folds to: 2.50" x 1.25"

Rev

1

10981201

Black

Cattle:

Streptococcus suis. More than 15 mL per injection site.

Intramuscular or subcutaneous administration at the dosage of 0.5 to 1.0 mg ceftiofur equivalents/lb (1.1 to 2.2 mg/kg) BW and treated cattle must not be slaughtered for 3 days following the last administration. Treated swine must not be slaughtered for 4 days following the last administration.

**WARNINGS**

NOT FOR HUMAN USE. KEEP OUT OF REACH OF CHILDREN.

**PRECAUTIONS**

- **Substrate:** Paper
- **Country:** USA

**STORAGE**

**EXCENEL® RTU** Sterile Suspension is sensitive to temperature; protect from temperature extremes, extreme humidity, and conditions that may affect the sterility or potency of the product. It is recommended that the product be stored at controlled room temperature 20°C to 25°C (68°F to 77°F). It is not recommended for use after exposure to temperatures below 15°C (59°F) or above 40°C (104°F).

**COMPARATIVE BIOAVAILABILITY SUMMARY**

- **Treatment:** EXCENEL® RTU Sterile Suspension (ceftiofur hydrochloride sterile suspension, 50 mg/mL) administered at 2.27 mg ceftiofur equivalents/lb (5.0 mg/kg) BW IM.
- **Comparison:** Controls consist of administered sodium or hydrochloride salt of ceftiofur, which is a broad spectrum cephalosporin antibiotic.
- **Ceftiofur administered as either ceftiofur sodium or ceftiofur hydrochloride is bactericidal against Salmonella enterica and other enteric pathogens.**

**Clindamycin administered as either clindamycin hydrochloride or clindamycin palmitate is bactericidal against *Staphylococcus aureus* and other enteric pathogens.**

**Comparative Bioavailability Summary**

- **Drug:** Ceftiofur administered as either ceftiofur sodium or ceftiofur hydrochloride is bactericidal against *Salmonella enterica* and other enteric pathogens.
- **Bacterial:** *Staphylococcus aureus* and other enteric pathogens.
- **Comparative Bioavailability Summary**

- **Drug:** Clindamycin administered as either clindamycin hydrochloride or clindamycin palmitate is bactericidal against *Staphylococcus aureus* and other enteric pathogens.
- **Bacterial:** *Staphylococcus aureus* and other enteric pathogens.

**CLINICAL MICROBIOLOGY**

*Salmonella enterica* and other enteric pathogens, including *Salmonella enterica* serovar Typhimurium (SRD), were isolated from clinical field effectiveness studies in cattle, calves, and swine. Histological analysis of tissue samples from treated animals showed a significant decrease in the number of bacteria in these tissues. The decrease in bacteria was associated with a significant reduction in the incidence of clinical signs. The decrease in bacteria was also associated with a significant reduction in the incidence of clinical signs. The decrease in bacteria was associated with a significant reduction in the incidence of clinical signs. The decrease in bacteria was associated with a significant reduction in the incidence of clinical signs. The decrease in bacteria was associated with a significant reduction in the incidence of clinical signs. The decrease in bacteria was associated with a significant reduction in the incidence of clinical signs.
**Excenel® RTU**

**brand of ceftiofur hydrochloride sterile suspension**

**Antimicrobial Activity**

Having established MICs for **Streptococcus suis**, **Peptostreptococcus**, **Pasteurella multocida**, **Mannheimia haemolytica**, **Salmonella choleraesuis**, **Histophilus somni**, and 8 other strains, the following MIC values were determined:

- 2000–2001: 1.0
- 1997–1998: 0.0078
- 1998–1999: 0.06
- 1999–2000: 0.06
- 1998–1999: 1.0

The MIC values for each strain are detailed in the table below.

---

**Table 1: Cattle MIC Values of Bacterial Isolates from Diagnostic Laboratories in 2000–2001**

<table>
<thead>
<tr>
<th>Organism</th>
<th>MIC Range</th>
<th>≤ 0.003</th>
<th>0.003–0.03</th>
<th>0.03–0.125</th>
<th>0.13–2.0</th>
<th>0.25–1.0</th>
<th>1.0</th>
<th>0.5–2.0</th>
<th>2.0–4.0</th>
<th>4.0–8.0</th>
</tr>
</thead>
</table>

**Ceftiofur MIC Values of Bacterial Isolates from Diagnostic Laboratories**

*In vitro* results indicate that ceftiofur hydrochloride is active against a wide range of clinical bacterial isolates. Results are available but their clinical significance is unknown.

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**Ceftiofur Hydrochloride Sulfate**

**Ceftiofur Sodium**

**Excenel RTU**

**brand of ceftiofur hydrochloride sterile suspension**

**GIVER SAFETY**

**Excenel RTU**

**brand of ceftiofur hydrochloride sterile suspension**

**Excenel RTU**

**brand of ceftiofur hydrochloride sterile suspension**

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