

# Lincospira

## Injection

For Veterinary Use Only

### COMPOSITION:

Each ml contains:

Spiramycin adipate.....125mg

Lincomycin HCl.....75mg

### MECHANISM OF ACTION/EFFECT:

Spiramycin is thought to reversibly bind to the 50 S subunit of bacterial ribosomes, resulting in blockage of the trans peptidation or translocation reactions, inhibiting protein synthesis and subsequent cell growth. It is primarily bacteriostatic, but may be bactericidal against more sensitive strains when used in higher concentrations.

Spiramycin also accumulates in high concentrations in the bacterial cell. Unlike Erythromycin, Spiramycin does not produce gastrointestinal motility stimulation.

Lincomycin acts by binding with the 50S subunit of the bacterial ribosome where it prevents the binding of aminoacyl RNA to the messenger ribosome complex by inhibition of peptidyl transferase. Ultimately bacterial protein synthesis is inhibited. The effect of Lincomycin is bacteriostatic.

### INDICATION:

Lincospira is indicated for prevention and treatment of respiratory tract infections (RTIs) like pneumonia and mycoplasmosis, soft tissue infections, enteric infections, mastitis, nephritis and arthritis in cattle, sheep, goat and poultry.

### DOSAGE AND ADMINISTRATION:

**Cattle:** 1ml per 20kg body weight by deep intramuscular route daily for 3-5 days.

**Sheep and Goat:** 1ml per 15kg body weight by deep intramuscular route daily for 3-5 days.

**Poultry:** 0.1ml per 2kg body weight by deep intramuscular route daily for 3 days.

### PHARMACOLOGY:

Lincomycin is given orally and intramuscularly. The drug is well distributed throughout the body and is mainly concentrated in the liver, spleen, kidney and lungs. Plasma half-life is 5 hrs.

Spiramycin Plasma levels peak within 1-2 hr in most cases, although absorption patterns may be erratic due to the presence of food and may depend on the salt or ester used.

### TOXICOLOGY:

Lincomycin in normal doses does not show any significant

clinical, hematological or histopathological effects. However, a short-lived diarrhea can be observed.

Spiramycin does not produce any teratogenic or embryonic effects and does not affect the fetuses and new born animals.

### PRECAUTIONS:

- Don't administer Lincospira Injection along with other injections especially with fluoroquinolones.
- Avoid usage in horses
- Keep out of the reach of the children.
- Consult the veterinarian before use.

### STORAGE:

- Store between 15- 25°C in a cool and dry place.

### Selmore's Specs



Manufactured by:  
Selmore Pharmaceuticals (Pvt) Ltd.  
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