

UNIQUE* SYNERGISM

HUVEPHARMA



Albiotic • a UNIQUE • COMBINATION OF LINCOMYCIN & NEOMYCIN BROAD-SPECTRUM ACTIVITY AGAINST THE PREDOMINANT MASTITIS PATHOGENS



Lincomycin is a lincosamide antibiotic with specific activity against Gram positive bacteria, particularly *Staphylococcus spp* and *Streptococcus spp*. Neomycin is an aminoclygoside antibiotic active against Gram positive bacteria particularly *Staphylococcus spp* and Gram negative bacteria. The combined spectrum of activity of Lincomycin and Neomycin covers the major mastitis pathogens including penicillinresistant strains of staphylococci.



Albiotic[®] is effective against the bacteria commonly responsible for clinical mastitis: *Staph. aureus, Strep. uberis, Strep. dysgalactiae, Strep. agalactiae* and *E. coli*

In vitro studies demonstrate that the combination has bactericidal activity against *Staph. aureus* and *E. coli*

Albiotic® • A UNIQUE® COMBINATION OF LINCOMYCIN & NEOMYCIN LINCOMYCIN & NEOMYCIN REACH HIGH THERAPEUTIC LEVELS IN MILK



Therapeutic levels of the combination in milk are maintained between the treatment intervals and for the 12 hours following the final tube.

> Ref: Carryn et al., Inf Dis Clin N Am (2003) 17 615-635

The antibiotic combination of Lincomycin and Neomycin demonstrated a synergistic & maintained bactericidal effect on *Staph. aureus*

Albiotic[®] is a broad-spectrum 1st line intramammary antibiotic when the first symptoms of mastitis appear

Albiotic® EASY ADMINISTRATION & RAPID DIFFUSION TARGET LOCATIONS OF MAIN CLINICAL MASTITIS PATHOGENS

	MILK/DUCTS	UDDER TISSUE	BLOOD
Streptococcus agalactiae	+++		
Other Streptococci	+++	+	
Staphylococcus aureus	+	+++	
Coagulase-negative staphylococci	+++		
Coliforms	+		+++

The treatment needs to target specific locations

AQUEOUS BASE FORMULATION

- The aqueous base allows rapid dispersal
- Easy to administer in thick, hard quarters
- Excellent tolerance in tissues

RAPID AND EXTENSIVE DIFFUSION OF LINCOMYCIN (RELATED TO MACROLIDES)

- Small molecule size and high lipid solubility
- Provides good tissue and intra-leucocyte diffusion
- Within 30 minutes of intramammary infusion, the Lincomycin molecules can be detected within blood plasma
- Good penetration of the udder, good diffusion across the bloodmilk barrier and effective uptake into the circulation

Albiotic[®] aqueous formulation respects tissues and Lincomycin diffuses rapidly and extensively

Albiotic® A proven efficacy on undifferentiated clinical mastitis ALBIOTIC® HAS DEMONSTRATED HIGH CLINICAL CURE RATES IN FIELD CONDITIONS

Clinical cure rate by treatment



Ref. Deluyker H.A., Chester S.T., Van Oye N.A. A multilocation clinical trial in lactating dairy cows affected with clinical mastitis to compare the efficacy in lactating cows of intramammary infusions of a lincomycin/neomycin combination with an ampicillin/cloxacillin combination. J. vet. Pharmacol. Therap. 22, 274-282

The Albiotic[®] clinical cure was significantly better than the Ampicillin/Cloxacillin clinical cure (p=0,035)

Broad-spectrum activity is suited to first line treatment because of the synergistic combination



Albiotic® • A PROVEN EFFICACY ON UNDIFFERENTIATED CLINICAL MASTITIS ALBIOTIC® HAS DEMONSTRATED HIGH BACTERIOLOGICAL CURE RATES IN FIELD CONDITIONS

Bacteriological cure	e rate			
Albiotic®			75%	
Cefquinome		70%	70%	

Ref: Kroemker, V et al., WBC 2008 poster presentation 562

- + *Streptococcus uberis* and *Staphylococcus aureus* are important causes of mastitis in dairy cows around the world
- + There is extensive use of B-lactams e.g. cephalosporins

Albiotic[®] has demonstrated efficacy in treating clinical mastitis in lactating dairy cows under field conditions

Albiotic[®] fits the current responsible use in antibiotic vet prescription guideline





LINCOMYCIN



WITHDRAWAL TIME: MILK 84 HOURS & MEAT 3 DAYS

NEOMYCIN



Synergistic combination of Lincomycin and Neomycin on *Staph.aureus*



Diffuses rapidly and extensively



suited to first line treatment of clinical mastitis

Broad-spectrum activity



"Unique because of a none-B lactam combination - Used references can be obtained upon demand. Please consult the local label and your veterinary surgeon for exact indications and posology. Further information can be obtained at www.huvepharma.com or from your Huvepharma representative. Legal category: POM-V. Vm 30282/4035 **Use medicines responsibly.**

Albiotic® Intramamary Solution for lactating cow – COMPOSITION : a syringe of 10ml contains Lincomycin (as Lincomycin hydrochloride) 330 mg and Neomycin (as Neomycin sulphate) 100 mg – INDICATIONS : For the treatment of mastitis in lactating cattle. The product is effective against *Staphylococcus species* (both penicillinase and non-penicillinase producers) including *Staphylococcus aureus, Streptococcus species* including *Streptococcus agalactiae, Streptococcus versional of the solution state in including <i>Escherichia coli*. – CONTRAINDICATIONS : None - SPECIAL WARNINGS FOR EACH TARGET SPECIES : None - Special precautions for use : Special precautions for use : Special precautions for use : Special precautions. None Special precautions to use : Special precautions. None solution. Wash hands and any exposed skin immediately after use - ADVERSE REACTIONS : None known - WITHDRAWAL PERIOD(S) : Milk: 84 hours. Meat: 3 days -



