

FLORIBAL

Liquid

Florfenicol
فلور فینیکال

فلور بیال
لیکوئیڈ



One powerful
ANTIBIOTIC for
all infections

Manufactured by:
WIMITS Wimits Pharmaceuticals (Pvt.) Ltd.
129-Sunder Industrial Estate Lahore.

Marketed by:
Bio Vision
88 A, PCHS, Dofanoo Ghazi Road,
Cantt. Lahore.

COMPOSITION:
Each 100 ml contains
Florfenicol23 gm
(Wimits Specs.)

INTRODUCTION:
Florfenicol is a fluorinated derivative of thiamphenicol. This product is white or milky crystalline powder, odorless, bitter taste.

PHARMACOLOGY:
Florfenicol is a broad-spectrum, primarily bacteriostatic, antibiotic with a range of activity similar to that of chloramphenicol, including many gram-negative and gram-positive organisms. However, florfenicol does not carry the risk of inducing human aplastic anemia that is associated with chloramphenicol.

Florfenicol has been demonstrated to be active in vitro and in vivo against Mannheimia (Pasteurella) haemolytica, Pasteurellamultocida, and Haemophilus somnus, which lead to bovine respiratory disease (BRD).

In vitro studies have shown florfenicol to have a broad spectrum of activity which includes aerobic and anaerobic bacteria, which are either Gram-positive or Gram-negative. Besides, studies have also demonstrated florfenicol activity against Enterobacter cloacae, Escherichia coli, Klebsiella pneumoniae, Salmonella typhi, and Shigella dysenteriae but with at least a 2- to 10-fold higher minimum inhibitory concentration than that for the Mannheimia, Pasteurella and Haemophilus species listed above. Aeromonas salmonicida has been shown to be sensitive to florfenicol concentrations of 1.6µg or less and Edwardsiella ictaluri has a minimum inhibitory concentration (MIC) of ≤0.25µg/ml.

It also has activity against some chloramphenicol resistant strains of bacteria, possibly because it is less affected by the major enzyme produced in plasmid-mediated bacterial resistance against chloramphenicol and thiamphenicol. Although the activity of florfenicol against obligate anaerobes is not addressed in the literature, it is likely to be quite effective.

MECHANISM OF ACTION:
Antibiotic principle of Florfenicol is similar to that of chloramphenicol and Thiamphenicol. Florfenicol inhibits protein synthesis by binding to 70S ribosomal 50S subunits of susceptible bacteria, leading to the inhibition of peptidyl

transferase and thereby preventing the transfer of amino acids to extending peptide chains and subsequent protein formation. The bacterial receptor that is the site of action for florfenicol is also considered to be the same as that for chloramphenicol and thiamphenicol. Florfenicol has a fluorine atom instead of the hydroxyl group located at C-3 in the structure of chloramphenicol and thiamphenicol. This prevents the acetylation of bacterial acetyltransferase in this site as to allow florfenicol to be less susceptible to deactivation by bacteria with plasmid-transmissible resistance that involves acetylation of the C-3 hydroxyl group in chloramphenicol and thiamphenicol, and prevents their interaction with bacterial ribosomes.

PHARMACOKINETICS:

1. There is no cross resistant to other general antibiotics.
2. It can infiltrate through blood-brain barrier
3. Use under the therapeutic dose, then no toxic side effects.
4. Good absorption in vivo of animals, and well distributed throughout the body, including achievement of therapeutic levels in the CSF. Once using it, the blood concentration over the effective level can last more than 48 ~ 72h. and it is much higher in some organs.
5. Florfenicol is the antibiotic specially used for livestock and poultry and it prevents the cross resistance due to human and domestic animal sharing the antibiotic

Clinical Applications:

1. Poultry: Chronic respiratory disease, Colibacillosis, Salmonellosis, Staphylococcal diseases and infective rhinitis.
2. Livestock: Escherichia coli diarrhea, insoluble streptococcal disease, Infectious Pleuropneumonia, mycoplasmal pneumonia, salmonellosis, atrophic rhinitis, erysipelas, lung disease.
3. Cure the infectious diseases of livestock and aquatic animals (fish, shrimp, crab, etc.).
4. For treatment of bovine interdigital phlegmon (foot rot, acute interdigital necrobacillosis, and infectious pododermatitis) associated with Fusobacterium necrophorum and Bacteroides melaninogenicus.

DOSAGE & ADMINISTRATION:
1ml per 2 litres of drinking water for 3-5 days.

PRECAUTIONS:
Store away from human and animal foodstuff.
Close bottle tightly after use.
Protect from heat and moisture.
Keep out of reach of children.
Consult veterinarian before use.

اپوزے ترکیبی: فی ۱۰۰ ملی لیٹر میں
فلور فینیکال.....۲۳ گرام

علامات:

فلور بیال لیکوئیڈ پولٹری میں فلور فینیکال سے حساس بیکٹریا سے پیدا شدہ بیماریوں خاص طور پر
ہائپانائیز، معدے اور سانس کی بیماریوں کے خلاف انتہائی موثر ہے۔

خوراک و استعمال:
۱ ملی لیٹر ۲ لیٹر پانی میں ۵۰-۳۰ دن تک استعمال کریں۔

احتیاط:
گرمی اور دھوپ سے بچائیں۔
تمام دواؤں بچوں کی پہنچ سے دور رکھیں۔
ویشری ڈاکٹری ہدایات کے مطابق استعمال کریں۔

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