

# YOSERFLOXIN

YOSERFLOXIN MAKE RESPIRATORY SYSTEM CLEAN



## Pharmacodynamics

- 1- Yoserfloxin has a **bactericidal** action.
- 2- It is a **broad-spectrum** antimicrobial, active against the most gram-negative and gram-positive poultry pathogens as (*E. coli*, *Salmonella* spp., *Pasteurella* spp., *Staphylococcus aureus*, *Escherichia coli*, *Klebsiella* spp., ) and mycoplasma.
- 3- Yoserfloxin showed **low levels of resistance (5-6%)** for *E. coli*, *Salmonella* spp. and *Pasteurella multocida* isolates.
- 4- Yoserfloxin of **high safety margin**; three fold therapeutic dose for two times daily, 10 days.

A summary of the most MIC For Yoserfloxin (Difloxacin 10 % )

Species	MIC <sub>50</sub> (µg/ml)	MIC <sub>90</sub> (µg/ml)	Range (µg/ml)
<i>E. coli</i> (broiler)	≤0.06 0.06	0.12 1.65	≤0.06-0.12 0.03->8
<i>E. coli</i> (turkey)	≤0.06 1.65	0.12 2	≤0.06-0.12 0.03-2
<i>M. gallisepticum</i>	0.25	0.5	0.12-0.5
<i>P. multocida</i>	≤0.06 0.01	≤0.06 0.01	≤0.06 ≤0.01-0.03
<i>Salmonella</i>	0.25	0.25	0.12-4



## Indication

**Yoserfloxin** used for control of respiratory, intestinal and systemic infections in chickens and turkeys. Major indications include:

- 1- Treatment of **chronic respiratory disease** (*Mycoplasma gallisepticum*, *E. coli*).
- 2- For Controlling airsacculitis (*Mycoplasma meleagridis*).
- 3- In a case of infectious synovitis (*Mycoplasma synoviae*).
- 4- Used for prevention and control of **colibacillosis** and **salmonellosis**.
- 5- For control of **fowl cholera** caused by *Pasteurella multocida*.
- 6- For treatment of **infectious coryza** (*Haemophilus paragallinarum*).
- 7- In case of **Staphylococcosis** (*Staphylococcus aureus*).
- 8- Recommended in treatment **chlamydiosis** (*Chlamydia psittaci*) in poultry and turkey.



## Dosage

- **5-10 mg/ kg** equivalent to **0.5 ml Yoserfloxin /10 kg B.wt** in drinking water for 3-5 days at least.



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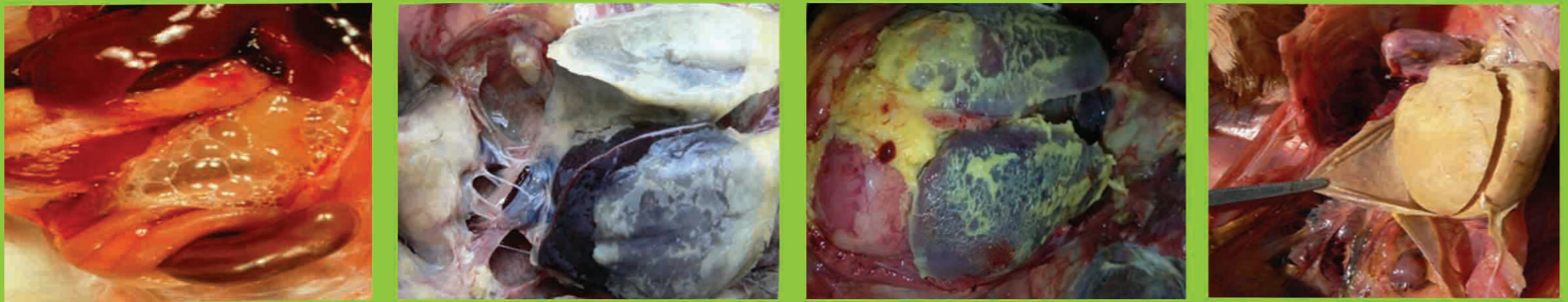


# Bacterial diseases of poultry.

Bacterial diseases play an important role in causing several affections in poultry, the bacterial affections may be occur in two cases ;

**1- Secondary to the viral infection, as complication**  
 e.g.  
 Colonization of *E. coli* in airsacs following infectious bronchitis virus

**2- The bacteria it self is the main initiating cause of the infection**  
 e.g.  
 - *Mycoplasma gallisepticum*  
 - *Salmonella*  
 - *Fowl cholera*



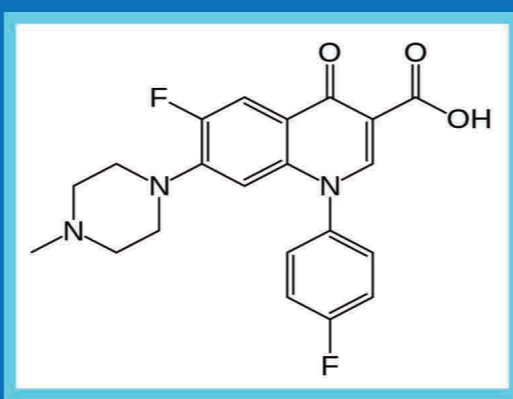
**New**

## YOSERFLOXIN

One of the most important Fluoroquinolones (FQs) Broad spectrum antibiotics.

- Fluoroquinolones (FQs) constitute an important group of synthetic antibiotics, developed in recent years, which are used to treat various infections in veterinary medicine.

- Fluoroquinolones are used in the treatment of systemic respiratory, gastrointestinal and urinary tract infections.



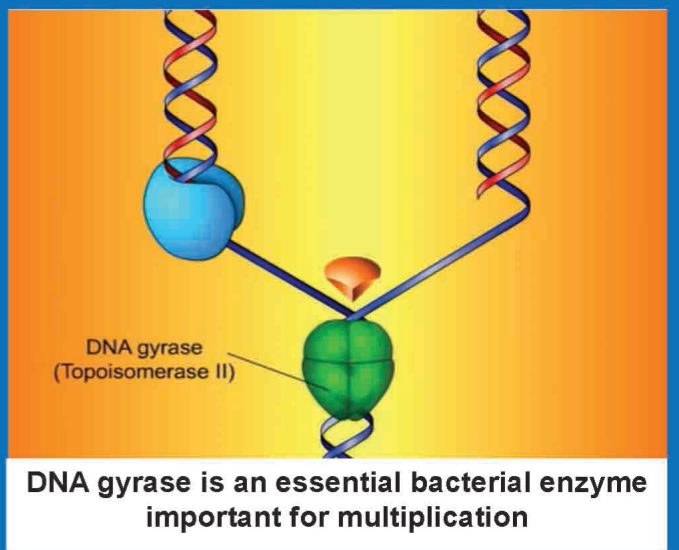
**Composition** Each 1 ml yoserfloxin contains;.....

Difloxacin hydrochloride 109.12 mg, equvalant to 100 mg Difloxacin base.

**Mode of action**

Yoserfloxin has bactericidal effect, that stop DNA replication by inhibiting of DNA gyrase and DNA topoisomerase activity in bacterial cells.

DNA gyrase is an essential bacterial enzyme important for multiplication.



**Pharmacokinetics**

- 1- Yoserfloxin is **Rapid** and **almost** absorbed after oral administration.
- 2- Bioavailability of Yoserfloxin reach to **96.4 %**.
- 3- The Peak of Yoserfloxin Plasma concentration achieved within **1-2 hours**.
- 4- Yoserfloxin is stable in medicated water for 24 hours So: **medicated water should be prepared daily**.
- 5- Yoserfloxin is **uniformly distributed in the tissue and plasma** of poultry and turkey.
- 6- The **biliary excretion** is the predominant elimination route for yoserfloxin.
- 7- Yoserfloxin have a longer half-life than other fluoroquinolones, So staying in the body longer. It allows for **once-daily application**.
- 8- Withdrawal time of Yoserfloxin in Chicken and turkeys Meat is **24 hours**.

