

# Niftafly Suspension

## Nitrofurantoin (25 mg/5 ml) Tablet

Effective Antibiotic Treatment for Urinary Tract Infections (UTIs)

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### Description

**Nitrofurantoin (25 mg/5 ml)** is a **broad-spectrum antibiotic** used primarily for the treatment and prevention of **urinary tract infections (UTIs)** caused by susceptible bacteria. It is specifically effective in treating **lower urinary tract infections**, including cystitis (bladder infection), due to its ability to concentrate in the urine and target bacteria directly in the urinary tract.

This medication works by inhibiting bacterial cell wall synthesis and damaging bacterial DNA, leading to bacterial death. It is typically used for **short-term treatment** of uncomplicated UTIs.

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### Mechanism of Action

Nitrofurantoin is a **nitrofuran antibiotic** that works by **disrupting bacterial enzymes** responsible for cell wall synthesis and bacterial metabolism. This leads to:

- **Inhibition of DNA and protein synthesis** in bacteria, causing **cell death**.
- **Bactericidal action**, especially in the urinary tract, where it reaches therapeutic concentrations.

Nitrofurantoin is effective against a wide range of **Gram-positive and Gram-negative bacteria**, making it a suitable option for the treatment of uncomplicated urinary infections.

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### Indications

**Nitrofurantoin (25 mg/5 ml)** tablet is indicated for the:

- **Treatment of acute uncomplicated urinary tract infections (UTIs)** caused by susceptible microorganisms such as *Escherichia coli*, *Staphylococcus saprophyticus*, and other common uropathogens.
  - **Prophylaxis** for the prevention of recurrent UTIs in individuals with a history of frequent infections.
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### Dosage and Administration

- **Adult Dose:**
  - The typical dosage for the treatment of UTIs is **50 to 100 mg every 6 hours**, depending on the severity and physician's recommendation.
  - **For Prophylaxis: 50 to 100 mg daily**, often prescribed for patients with recurrent infections.
- **Administration:**
  - Take **with food** to enhance absorption and minimize gastrointestinal side effects.
  - Swallow tablets whole, do not crush or chew.
  - Adequate hydration is recommended during treatment to prevent potential kidney complications.

**Note:** Always follow your healthcare provider's instructions for dosing, as treatment duration may vary based on infection severity and individual response.

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### Possible Side Effects

#### Common Side Effects:

- **Gastrointestinal Discomfort:**

- Nausea, vomiting, abdominal pain, and loss of appetite are the most common side effects, especially when the medication is first started. Taking the medication with food can help reduce these symptoms.
- **Headache and Dizziness**
  - Some patients may experience mild dizziness or headaches during treatment.

### Serious Side Effects:

- **Pulmonary Toxicity:**
  - Nitrofurantoin has been associated with **lung toxicity** in rare cases, particularly with prolonged use or in those with pre-existing lung conditions. Symptoms include shortness of breath, chest pain, and persistent cough. Discontinue the medication immediately and consult your doctor if these symptoms occur.
- **Hepatotoxicity:**
  - Although rare, **liver damage** has been reported. Symptoms of liver issues may include jaundice (yellowing of the skin or eyes), dark urine, and fatigue. Seek medical attention if any of these symptoms develop.
- **Peripheral Neuropathy:**
  - **Nerve damage** can occur, particularly with prolonged or high-dose therapy. Symptoms include tingling, numbness, or pain in the hands or feet.
- **Hemolytic Anemia:**
  - In patients with **glucose-6-phosphate dehydrogenase (G6PD) deficiency**, Nitrofurantoin may cause **hemolytic anemia**. This condition involves the breakdown of red blood cells and requires prompt medical attention.
- **Severe Allergic Reactions:**
  - Rare cases of **severe skin reactions, swelling, and difficulty breathing** have been reported. Seek emergency medical help if you experience any signs of an allergic reaction.

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## Precautions

- **Kidney Function:**
  - **Nitrofurantoin** is contraindicated in patients with **renal impairment**, as it may not be effectively excreted in the urine, reducing its efficacy and increasing the risk of side effects. It should not be used in patients with a **creatinine clearance of less than 60 mL/min**.
- **Pregnancy and Breastfeeding:**
  - **Pregnancy:** Nitrofurantoin is **not recommended in the first trimester** and should be used cautiously in the later stages of pregnancy. It should only be used if clearly needed, as there may be risks to the fetus.
  - **Breastfeeding:** Nitrofurantoin is excreted in breast milk, and although it is considered generally safe for short-term use, it should be used cautiously in breastfeeding mothers. Consult your healthcare provider for advice.
- **Liver or Lung Disease:**
  - Use with caution in patients with **pre-existing liver or lung disease**, as Nitrofurantoin may worsen these conditions. Regular monitoring is advised for those with existing pulmonary or hepatic issues.
- **Glucose-6-Phosphate Dehydrogenase (G6PD) Deficiency:**
  - Avoid Nitrofurantoin in individuals with **G6PD deficiency**, as it may lead to **hemolysis** (destruction of red blood cells).
- **Hydration:**
  - Ensure adequate fluid intake to help prevent potential kidney complications during the course of treatment.

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## Drug Interactions

- **Probenecid:**
  - Probenecid can **increase** the levels of Nitrofurantoin in the blood, increasing the risk of side effects. Adjustments in dosing may be necessary.
- **Antacids:**
  - **Antacids** containing **magnesium trisilicate** can reduce the absorption of

Nitrofurantoin, making it less effective. It is advisable to take Nitrofurantoin at least 2 hours before or after using such antacids.

- **Other Antibiotics:**

- Combining **Nitrofurantoin** with other antibiotics that are not effective for UTIs (such as **tetracyclines** or **penicillins**) may reduce the overall effectiveness of treatment. Ensure your healthcare provider is aware of all medications you're taking.

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## Storage

- Store Nitrofurantoin at **room temperature** (15°C to 30°C).
- Keep the medication in a **cool, dry place** away from direct sunlight and moisture.
- Keep out of reach of children.

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## Disclaimer

**Nitrofurantoin (25 mg/5 ml)** tablet should be used according to the guidance of your healthcare provider. If you experience any side effects or unusual symptoms, contact your healthcare provider immediately. Do not stop the medication prematurely, even if symptoms improve, unless advised by your doctor.

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Nitrofurantoin (25 mg/5 ml) Tablet — A Trusted Antibiotic for the Effective Treatment of Urinary Tract Infections!

Manufactured in India for:



**Cafoli Lifecare Pvt. Ltd.**

**(An ISO 9001: 2015 Certified Co.)**

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