

# **BACTIN**

## **CIPROFLOXACIN HYDROCHLORIDE USP**

### **Compositions:**

Bactin 250: Each tablet contains Ciprofloxacin 250 mg as Ciprofloxacin Hydrochloride USP. E2 Bactin 500: Each tablet contains Ciprolloxacin 500 mg as Ciprofloxacin Hydrochloride USP. Bactin 750: Each tablet contains Ciprolloxacin 750 mg as Ciprofloxacin Hydrochloride USP. Bactin POS: Each bottle contains powder for reconstitution of 60 ml suspension. Bactin IV Infusion: Each 100 ml solution contains Ciprofloxacin 200 mg as Ciprofloxacin Lactate USP.

### **Pharmacology:**

Bactin (Ciprofloxacin) is a broad-spectrum synthetic quinolone antibacterial agent. It is active against most of the gram-negative aerobic bacteria like Enterobacteriaceas & Pseudomonas aeruginosa and gram-positive aerobic bacteria including penicillinase producing, penicillinase non-producing and Methicillin-resistant Staphylococci. The bactericidal action of Ciprofloxacin results from interfering with the enzyme DNA gyrase which are required for bacterial DNA replication, transcription, repair and recombination.

### **Dosage And Administration:**

Adult: The usual adult dose is 250-750 mg 12 hourly. Usual dosage schedule -- Typhoid Fever: 500 mg 12 hourly 7-14 days. Infected Diarrhea: 500 mg 12 hourly 5-7 days. Chronic Salmonella Carriers: 500-750 mg 12 hourly 28 days. Complicated UTI: 500 mg 12 hourly 3-5 days. Uncomplicated UTI: 250 mg 12 hourly 3-5 days. Respiratory Tract Infection: 500-750 mg 12 hourly 7-14 days. Skin and Soft Tissue Infection: 500-750 mg 12 hourly 7-14 days. Uncomplicated Gonorrhea: 250 mg single dose. Wound Infection: 500 mg 12 hourly 7-14 days. Bone and Joint Infection: 500-750 mg 12 hourly 7-14days. Other Infection: 500-750 mg 12 hourly 7-14 days.

### **Contraindications:**

Ciprofloxacin is contraindicated in patients with a known history of hypersensitivity to it or any of its components and to other Quinolones.

### **Warning And Precaution:**

Ciprofloxacin should be used with great caution in patient with a known history of epilepsy or other factors, which predispose to seizure and convulsion. Patients should be advised to take Ciprofloxacin two hours after meal. Patients should be advised not to take Antacid containing aluminum or magnesium concomitantly or within two hours after dosing and also requested to drink plenty of water.

### **Side Effects:**

Ciprofloxacin is generally well tolerated. Gastrointestinal disturbances like nausea, vomiting, diarrhea, dyspepsia and abdominal pain; CNS disturbances e.g. dizziness, drowsiness, headache, tiredness, confusion, convulsion, skin rashes, pruritus and possible systemic reactions may occur. It has also been reported that joint pain, mild photosensitivity may occur and liver enzyme, serum bilirubin, creatinine levels may increase slightly after administration. Risk of Retinal detachment may also occur.

### **Use in Pregnancy and Lactation:**

Ciprofloxacin has been shown to cause arthropathy in immature animals and therefore its use during pregnancy is not yet recommended. It has been reported that Ciprofloxacin is secreted in milk during administration to nursing mother and is thus not also recommended yet.

**Drug Interaction:**

Concurrent administration of Ciprofloxacin with Theophylline and Caffeine may potentiate the adverse effects of theophylline and caffeine. Antacid containing aluminium or magnesium may decrease the bioavailability of Ciprofloxacin. Quinolones, including Ciprofloxacin, have been reported to enhance the effects of the oral anticoagulant Warfarin or its derivatives.

**Overdosage:**

Symptoms: Dizziness, tremor, headache, tiredness, seizures, hallucinations, confusion, abdominal discomfort, renal and hepatic impairment, crystalluria, haematuria. Symptomatic and supportive treatment: Empty stomach by inducing emesis or by gastric lavage. Admin of antacids containing Mg, Al or Ca may reduce oral absorption.

**Storage:**

Store in cool and dry place (below 30°C), protect from light. Keep out of reach of children.

**Packing:**

Bactin 250 Tablet: Each box contains 20 film-coated tablets in blister pack. Bactin 500 Tablet: Each box contains 30 film-coated tablets in Alu-Alu blister pack. Bactin 750 Tablet: Each box contains 20 film-coated tablets in blister pack. Bactin 60 ml suspension: Each bottle contains powder for reconstitution of 60 ml suspension. Bactin IV Infusion: Each box contains 1 bottle of 100 ml solution of Ciprofloxacin for IV Infusion.

Manufactured By:

The IBN SINA Pharmaceutical Industry PLC.

Shafipur, Gazipur, Bangladesh.