

EBENAT 250
CEFUROXIME AXETIL TABLETS USP 250MG

INDIA

12.	Isopropyl Alcohol **	BP	-	-	Q. S.	Q. S.	Solvent
13.	Dichloromethane**	BP	-	-	Q. S.	Q. S.	Solvent
14.	Titanium Dioxide	BP	-	-	2.70	0.27	Coating agent
15.	Hypromellose	USP	-	-	3.50	0.35	Lubricate
Total Weight of Tablet					660.00	66.00	

*312.50 mg of Cefuroxime Axetil Eq. to 250.00 mg of Cefuroxime

**Gets evaporated during manufacturing process and does not remain in the final product except in traces

3. Pharmaceutical form

Tablets

White colored, caplet shaped film coated tablets having breakline on one side and plain on other side.

4. Clinical particulars:

4.1 Therapeutic indications:

Cefuroxime Axetil Tablets is indicated for the treatment of the infections listed below in adults and children from the age of 3 months.

- Acute streptococcal tonsillitis and pharyngitis.
- Acute bacterial sinusitis.
- Acute otitis media.
- Acute exacerbations of chronic bronchitis.
- Cystitis.
- Pyelonephritis.
- Uncomplicated skin and soft tissue infections.
- Treatment of early Lyme disease.

Consideration should be given to official guidance on the appropriate use of antibacterial agents.

Interference with diagnostic tests

The development of a positive Coomb's Test associated with the use of cefuroxime may interfere with cross matching of blood.

As a false negative result may occur in the ferricyanide test, it is recommended that either the glucose oxidase or hexokinase methods are used to determine blood/plasma glucose levels in patients receiving cefuroxime axetil.

4.5 Interaction with other medicinal products and other forms of interaction

Drugs which reduce gastric acidity may result in a lower bioavailability of cefuroxime axetil compared with that of the fasting state and tend to cancel the effect of enhanced absorption after food.

Cefuroxime axetil may affect the gut flora, leading to lower oestrogen reabsorption and reduced efficacy of combined oral contraceptives.

Cefuroxime is excreted by glomerular filtration and tubular secretion. Concomitant use of probenecidis not recommended. Concurrent administration of probenecid significantly increases the peak concentration, area under the serum concentration time curve and elimination half-life of cefuroxime.

Concomitant use with oral anticoagulants may give rise to increased INR.

4.6 Pregnancy and lactation

Pregnancy: Cefuroxime axetil should be prescribed to pregnant women only if the benefit outweighs the risk.

Lactation: Cefuroxime is excreted in human milk in small quantities. Adverse effects at therapeutic doses are not expected, although a risk of diarrhoea and fungus infection of the mucous membranes cannot be excluded. Breastfeeding might have to be discontinued due to these effects. The possibility of sensitisation should be taken into account. Cefuroxime should only be used during breastfeeding after benefit/risk assessment by the physician in charge.

Special patient populations

Gender: No differences in the pharmacokinetics of cefuroxime were observed between males and females.

Elderly: No special precaution is necessary in the elderly patients with normal renal function at dosages up to the normal maximum of 1 g per day. Elderly patients are more likely to have decreased renal function; therefore, the dose should be adjusted in accordance with the renal function in the elderly.

Paediatrics

In older infants (aged >3 months) and in children, the pharmacokinetics of cefuroxime are similar to that observed in adults.

There is no clinical trial data available on the use of cefuroxime axetil in children under the age of 3 months.

Renal impairment

The safety and efficacy of cefuroxime axetil in patients with renal failure have not been established. Cefuroxime is primarily excreted by the kidneys. Therefore, as with all such antibiotics, in patients with markedly impaired renal function (i.e. $Cl_{cr} < 30$ ml/minute) it is recommended that the dosage of cefuroxime should be reduced to compensate for its slower excretion. Cefuroxime is effectively removed by dialysis.

Hepatic impairment

There are no data available for patients with hepatic impairment. Since cefuroxime is primarily eliminated by the kidney, the presence of hepatic dysfunction is expected to have no effect on the pharmacokinetics of cefuroxime.

Pharmacokinetic/pharmacodynamic relationship

For cephalosporins, the most important pharmacokinetic-pharmacodynamic index correlating with in vivo efficacy has been shown to be the percentage of the dosing interval (%T) that the unbound concentration remains above the minimum inhibitory concentration (MIC) of cefuroxime for individual target species (i.e. %T>MIC).

5.3 Preclinical safety data

Reported non-clinical data reveals that no special hazard for humans based on studies of safety pharmacology, repeated dose toxicity, genotoxicity and toxicity to reproduction and development. No carcinogenicity studies have been performed; however, there is no evidence to suggest carcinogenic potential. Gamma glutamyltranspeptidase activity in rat urine is inhibited by various cephalosporins, however the level of inhibition is less with cefuroxime. This may have significance in the interference in clinical laboratory tests in humans.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Sr. No.	Ingredients	Specification
1.	Citric Acid Monohydrate	BP
2.	Sodium Lauryl Sulphate	BP
3.	Magnesium Stearate	BP
4.	Purified Talc	BP
5.	Sodium Carbonate	BP
6.	Mannitol	BP
7.	Crospovidone	USP-NF
8.	Croscarmellose Sodium	USP-NF
9.	Colloidal Anhydrous Silica	BP
10.	Propylene Glycol	BP
11.	Isopropyl Alcohol **	BP
12.	Dichloromethane**	BP
13.	Titanium Dioxide	BP
14.	Hypromellose	USP

6.2 Incompatibilities

Not applicable

