

Clavusef®

Cefuroxime & Clavulanic Acid

Description: Cefuroxime is one of the bactericidal second generation cephalosporin antibiotics, which is active against a wide range of Gram-positive and Gram-negative susceptible organisms including many beta-lactamase producing strains. It is indicated for the treatment of infections caused by sensitive bacteria. Clavulanic acid has a similar structure to the beta-lactam antibiotics but binds irreversibly to the beta-lactamase enzymes. The presence of clavulanic acid in Clavusef® formulations protect Cefuroxime from degradation by beta-lactamase enzymes and effectively extend the antibacterial spectrum of Cefuroxime that include many bacteria normally resistant to Cefuroxime and other cephalosporins.

Mode of action: Cefuroxime has bactericidal activity against a wide range of common pathogens, including beta-lactamase producing strains. The bactericidal action of cefuroxime is resulted from inhibition of cell wall synthesis by binding to essential target proteins. Clavulanic acid is a naturally derived beta lactamase inhibitor produced by *Streptomyces clavuligerus*. It has poor intrinsic antimicrobial activity, but it is an irreversible binder of β -lactamases produced by a wide range of gram positive and gram negative microorganisms.

Pharmacokinetics: After oral administration cefuroxime axetil is absorbed from the gastrointestinal tract and rapidly hydrolysed in the body to release cefuroxime into the circulation. Approximately 60% of an administered dose is absorbed. Optimum absorption occurs when it is administered after a light meal. The mean peak serum level of cefuroxime following a 250 mg dose in normal healthy adults, after food, was 4.1 mg/L and occurred two to three hours after dosing. Serum levels were significantly higher in the elderly, apparently due to slower excretion.

Composition: Clavusef® 125 mg Tablet: Each film coated tablet contains Cefuroxime Axetil BP 150.363 mg and Clavulanate Potassium USP 37.225 mg equivalent to Cefuroxime 125 mg and Clavulanic acid 31.25 mg respectively.

Clavusef® 250 mg Tablet: Each film coated tablet contains Cefuroxime Axetil BP 300.725 mg and Clavulanate Potassium USP 74.45 mg equivalent to Cefuroxime 250 mg and Clavulanic acid 62.5 mg respectively.

Clavusef® 500 mg Tablet: Each film coated tablet contains Cefuroxime Axetil BP 601.450 mg and Clavulanate Potassium USP 148.9 mg equivalent to Cefuroxime 500 mg and Clavulanic acid 125 mg respectively.

Clavusef® 70 ml Powder for Suspension: Each 5 ml reconstituted suspension contains Cefuroxime Axetil BP 150.363 mg and Clavulanate Potassium USP 37.225 mg equivalent to Cefuroxime 125 mg and Clavulanic acid 31.25 mg respectively.

Indications: Pharyngitis/tonsillitis, Acute bacterial otitis media, Acute bacterial maxillary sinusitis, Acute bacterial exacerbations of chronic bronchitis and secondary bacterial infections of acute bronchitis, Uncomplicated skin and skin-structure infections, Uncomplicated urinary tract infections, Uncomplicated gonorrhea (urethral and endocervical), Early lyme disease (erythema migrans).

Dosage & administration: Clavusef® Tablets: The usual course of therapy with Cefuroxime-Clavulanic acid tablets is 5 to 7 days for treatment of bronchitis, and 7 to 10 days for other infections.

Adolescents and Adults (13 years and older)

Infection	Dosage	Duration (days)
Pharyngitis/tonsillitis	250 mg b.i.d.	05-10
Acute bacterial maxillary sinusitis	250 mg b.i.d.	10
Acute bacterial exacerbations of chronic bronchitis	250 or 500 mg b.i.d.	10
Secondary bacterial infections of acute bronchitis	250 or 500 mg b.i.d.	05-10
Uncomplicated skin and skin-structure infections	250 or 500 mg b.i.d.	10

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Clavusef® 500 mg Tablet: Each carton contains 4X3 tablets in Alu-Alu strip in Alu-Alu sachet.

Clavusef® 70 ml Powder for Suspension: Each carton contains a bottle having powder to reconstitute 70 ml suspension.

Manufactured by
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Rupatali, Barishal, Bangladesh.
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