

PRODUCT MONOGRAPH

PrTEVA-CEFADROXIL

(Cefadroxil Capsules)

500mg

USP

Antibiotic

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TEVA-CEFADROXIL

(CEFADROXIL)

Capsules

USP

THERAPEUTIC CLASSIFICATION

Antibiotic

ACTION AND CLINICAL PHARMACOLOGY

TEVA-CEFADROXIL (cefadroxil) is a cephalosporin which exhibits bactericidal activity. *In vitro* studies have demonstrated that the antibacterial activity of the cephalosporins is a result of their ability to inhibit mucopeptide synthesis in the bacterial cell wall.

A comparative, two-way single dose bioavailability study was performed on two 500 mg cefadroxil capsules, TEVA-CEFADROXIL 500 mg capsules and Duricef[®] 500 mg capsules. The pharmacokinetic data calculated for cefadroxil in the TEVA-CEFADROXIL and Duricef[®] capsule formulations is tabulated below:

	Geometric Mean Arithmetic Mean (C.V.%)		Percentage of Duricef®
	TEVA-CEFADROXIL (1 x 500 mg)	Duricef® ^{**} (1 X 500 mg)	
AUC _T (ng•h/mL)	47.47 47.87 (13)	45.56 45.82 (11)	104%
AUC _I (ng•h/mL)	48.51 48.92 (13)	47.27 47.47 (10)	103%
C _{max} (ng/mL)	16.23 16.56 (20)	16.57 16.75 (14)	98%
T _{max} (h)	1.5 (0.3)	1.5 (0.3)	—
T _{1/2} (h)	2.13 (0.96)	1.84 (0.31)	—

*For the T_{max} and T_{max} parameters these are the arithmetic means (S.D.).

** Duricef® 500 mg capsules (Bristol Laboratories, Ottawa, ON, Canada).

INDICATIONS AND CLINICAL USE

TEVA-CEFADROXIL (cefadroxil) is indicated for the treatment of the following infections when caused by susceptible strains of the organisms indicated:

- Acute uncomplicated urinary tract infections when caused by *E.coli*, *Klebsiella* species and some strains of *Proteus mirabilis*.
- Skin and skin structure infections caused by *Staphylococcus aureus* and/or Group A β-hemolytic streptococci.
- Acute pharyngitis-tonsillitis, when caused by Group A β-hemolytic streptococci.

- Lower respiratory tract infections, including pneumonia, caused by *S. pneumoniae* (*D. pneumoniae*), *S. Pyogenes* (Group A β -hemolytic streptococci), *K. pneumoniae* and *S. aureus*.

Prior to and during therapy, appropriate bacteriological studies should be performed in order to identify and determine the susceptibility of the causative organism(s).

To reduce the development of drug-resistant bacteria and maintain the effectiveness of TEVA-CEFADROXIL and other antibacterial drugs, TEVA-CEFADROXIL should be used only to treat infections that are proven or strongly suspected to be caused by susceptible bacteria.

CONTRAINDICATIONS

TEVA-CEFADROXIL (cefadroxil) is contraindicated in patients with a known hypersensitivity to the cephalosporin group of antibiotics.

WARNINGS

Cephalosporin antibiotics (including TEVA-CEFADROXIL (cefadroxil)) should be administered with great caution to patients with known hypersensitivity to the penicillins. Clinical and laboratory evidence exists of cross-allergenicity between the penicillin and cephalosporin groups of antibiotics. There have been reports of patients who have had reactions to both classes of antibiotics (including fatal anaphylactoid reactions after parenteral administration).

TEVA-CEFADROXIL should be administered with caution and then only when absolutely necessary to any patient who has a history of some form of allergy, particularly to drugs.

The normal flora of the colon is altered by treatment with broad spectrum antibiotics and this may permit overgrowth of clostridia. Studies indicate that one primary cause of antibiotic-associated colitis is a toxin produced by *Clostridium difficile*.

With the use of cephalosporins and other broad spectrum antibiotics, pseudomembranous colitis has been reported. It is therefore important to consider its diagnosis in patients who develop diarrhea in association with antibiotic use.

Mild cases of colitis may respond to drug discontinuance alone. Moderate to severe cases should be managed with fluid, electrolyte and protein supplementation as indicated. When the colitis is not relieved by drug discontinuance or when it is severe, oral vancomycin is the treatment of choice for antibiotic-associated pseudomembranous colitis. Other causes of colitis should also be considered.

Severe Cutaneous Adverse Reactions

Severe cutaneous adverse reactions (SCAR) such as acute generalized exanthematous pustulosis (AGEP), drug reaction with eosinophilia and systemic symptoms (DRESS), Stevens-Johnson syndrome (SJS), and toxic epidermal necrolysis (TEN) have been reported in association with beta-lactam treatment. When SCAR is suspected, TEVA-CEFADROXIL should be discontinued and appropriate therapy and/or measures should be taken.

Susceptibility/Resistance:

Development of Drug-Resistant Bacteria

Prescribing TEVA-CEFADROXIL in the absence of a proven or strongly suspected bacterial infection is unlikely to provide benefit to the patient and risks the development of resistant drug-resistant bacteria.

Potential for Microbial Overgrowth

Prolonged use of TEVA–CEFADROXIL can result in the overgrowth of non–susceptible organisms. Careful observation of the patient is essential. If superinfection occurs during therapy, the administration of TEVA–CEFADROXIL should be discontinued and appropriate measures taken. An alternate therapy should be instituted if an organism becomes resistant during treatment with TEVA–CEFADROXIL.

PRECAUTIONS

A MINIMUM OF 10 DAYS TREATMENT IS RECOMMENDED FOR INFECTIONS CAUSED BY GROUP A β –HEMOLYTIC STREPTOCOCCI.

Patients should be carefully monitored to detect the development of any adverse effect or other manifestations of drug idiosyncrasy. If an allergic reaction to TEVA–CEFADROXIL (cefadroxil) occurs, its administration should be discontinued and the patient treated with the usual agents (e.g., epinephrine, other pressor amines, or corticosteroids).

TEVA–CEFADROXIL should be used with caution in the presence of markedly impaired renal function (i.e., a creatinine clearance rate of less than 0.85 mL/sec/1.73 m² (50 mL/min/1.73 m²), (See DOSAGE AND ADMINISTRATION). In patients with known or suspected renal impairment careful clinical evaluation and appropriate laboratory studies should be performed prior to and during therapy, since TEVA–CEFADROXIL can accumulate in serum and tissues.

If TEVA–CEFADROXIL is to be used for long–term therapy, hematologic, renal and hepatic functions should be monitored periodically.

During treatment with the cephalosporin antibiotics, positive direct Coombs tests have been reported. In hematologic studies or in transfusion cross–matching procedures, when antiglobulin tests are performed on the minor side or in Coombs testing of newborns whose mothers have

received cephalosporin antibiotics before parturition, it should be noted that a positive Coombs test may be due to the drug.

During treatment with TEVA–CEFADROXIL, a false positive reaction for glucose in the urine may occur with Benedict's or Fehling's solution or with Clinitest tablets, but not with enzyme–based tests such as Clinistix or Tes–Tape.

Use in Pregnancy:

The safety of cefadroxil in the treatment of infections during pregnancy has not been established. Therefore, during pregnancy the administration of TEVA–CEFADROXIL is not recommended. If in the opinion of the attending physician, the administration of TEVA–CEFADROXIL is necessary, its use requires that the anticipated benefits be weighed against the possible hazards to the fetus.

Nursing Mothers:

Cephalosporin antibiotics are excreted in human breast milk and therefore, would be ingested by the neonate during breast feeding. Nursing mothers receiving TEVA–CEFADROXIL should discontinue breast-feeding.

ADVERSE REACTIONS

Adverse reactions observed during use of cefadroxil include:

Gastrointestinal:

The most frequently observed have been nausea and vomiting. The incidence and severity are dose dependent and the latter has been severe enough to warrant cessation of therapy, but infrequently.

Other reactions reported were abdominal cramps, gastric upset, heartburn, gas and diarrhea.

Hypersensitivity:

Rash, swollen and running eyes, urticaria, eosinophilia, angioedema and positive direct Coombs test.

Central Nervous System:

Dizziness, weakness, drowsiness, vertigo, nervousness and headaches.

Miscellaneous:

Vaginitis, monilial vaginitis, vaginal itching, cramps in side and legs, transient neutropenia and elevations in BUN, alkaline phosphatase and AST (SGOT).

These adverse effects were seen during clinical trials in 5.8% of patients.

SYMPTOMS AND TREATMENT OF OVERDOSAGE

There is no specific antidote for overdosage with CEFADROXIL. Therefore, treatment should be symptomatic.

DOSAGE AND ADMINISTRATION

TEVA-CEFADROXIL (cefadroxil) is administered orally and may be taken without regard to meals.

The incidence and severity of gastrointestinal complaints is dose dependent. Administration with food may be helpful to diminish potential intestinal complaints.

A MINIMUM OF 10 DAYS TREATMENT IS RECOMMENDED FOR INFECTIONS CAUSED BY GROUP A β -HEMOLYTIC STREPTOCOCCI.

ADULTS:

Normal Renal Function:

The recommended dose is 1 to 2 g per day.

Urinary Tract Infections:

The recommended daily dose is 1 to 2 g. This may be given as a single dose at bedtime or divided into 500 mg to 1 g doses for twice a day administration (every 12 hours). The usual duration of therapy is 10 days. While shorter or longer courses may be appropriate for some patients, TEVA-CEFADROXIL should be administered for a sufficient period of time to render the urine sterile. The sterility of the urine should be re-evaluated 2 to 4 weeks after cessation of therapy.

Acute Pharyngitis and Tonsillitis:

The recommended dose is 1 g per day in single (qd) or divided doses (bid). Treatment should be for a minimum of 10 days and continued for a minimum of 48 to 72 hours beyond the time that the patient becomes asymptomatic or evidence of bacterial eradication has been obtained.

Lower Respiratory Tract Infections:

The recommended dose is 500 mg to 1 g two times per day (every 12 hours).

Skin and Skin Structure Infections:

1 g daily in a single dose.

Impaired Renal Function:

The dosage of TEVA–CEFADROXIL should be adjusted according to creatinine clearance rates to prevent drug accumulation.

In adults the dose is 1 g for a patient with normal renal function (see above) and the maintenance dose (based on the creatinine clearance rate) is 500 mg at the time intervals listed below.

Creatinine Clearance		Dose Interval
(mL/sec/1.73m ²)	(mL/min/1.73m ²)	(hours)
0 – 0.17	0 – 10	36
0.17 – 0.43	10 – 25	24
0.43 – 0.85	25 – 50	12

Patients with creatinine clearance rates greater than 0.85 mL/sec/1.73m² (50 mL/min/1.73m²) may be dosed as for those patients with normal renal function.

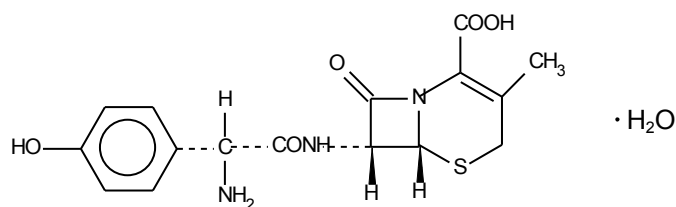
PHARMACEUTICAL INFORMATION

DRUG SUBSTANCE

Proper Name: Cefadroxil

Chemical Name: (6R, 7R)-7-[(R)-2-Amino-2-(*p*-hydroxy-phenyl)acetamido]-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid monohydrate

Structural Formula:



Molecular Formula: C₁₆H₁₇N₃O₅S•H₂O

Molecular Weight: 381.40

Description: Cefadroxil monohydrate is a white to off-white powder and is slightly soluble in water. The pH is between 4.0 and 6.0, in a suspension containing 50 mg drug substance per mL water and the melting point is 197°C.

STABILITY AND STORAGE RECOMMENDATIONS: Store between 15°–30°C. Protect from high humidity.

Non-Medicinal Ingredients: Colloidal silicon dioxide, croscarmellose sodium, magnesium stearate and sodium lauryl sulfate.

AVAILABILITY OF DOSAGE FORMS

TEVA-CEFADROXIL (cefadroxil) is available as 500 mg hard gelatin capsule with opaque maroon cap and opaque white body with "N" and "500" imprinted in dark grey. Each capsule contains cefadroxil monohydrate equivalent to 500 mg cefadroxil. Supplied in bottles of 100 capsules.

MICROBIOLOGY

The antibacterial activity of cefadroxil was determined *in vitro* on 555 strains of gram-negative and gram-positive organisms. These results are outlined in Table I in terms of cumulative percentage as determined by the agar dilution method. Many strains of *H. influenzae* and most strains of enterococci species (*Strep. faecalis* and *Strep. faecium*), *Enterobacter* species, indole-positive *Proteus* species, *Providencia stuartii* and *Serratia* species are resistant to cefadroxil. Cefadroxil has no activity against *Pseudomonas*, and *Herella* species.

Table I

Organisms (No. of Strains)	Cumulative Percentage of Strains Inhibited at Indicated Concentrations ($\mu\text{g/mL}$)											
	0.13	0.25	0.5	1	2	4	8	16	32	63	125	250
<u>GRAM POSITIVE</u>												
Str. pyogenes (28)	89.2	100										
Str. pneumoniae (20)	-	5	20	40	95	100						
S. aureus (17) (non-penicillinase producing)	-	-	-	11.7	100							
S. aureus (70) (penicillinase producing)	-	-	-	-	31.4	85.6	100					
Str. faecalis (14)	-	-	-	-	-	-	-	7.1	7.1	100		
<u>GRAM NEGATIVE</u>												
N. gonorrhoeae (16)	-	-	-	12.5	18.7	49.9	81.1	100				
Shigella spp. (12)	-	-	-	-	-	8.3	74.9	100				
Salmonella (32)	-	-	-	-	-	-	62.5	96.5	100			
K. pneumoniae (62)	-	-	-	-	-	-	56.4	90.2	96.6	98.2	100	
P. mirabilis (51)	-	-	-	-	-	-	3.9	64.6	97.9	100		
E. coli (96)	-	-	-	-	-	6.2	54.1	90.5	92.5	96.6	96.6	96.6
H. influenza (24)	-	-	-	-	-	-	-	20.9	95.9	100		
P. stuartii (31)	-	-	-	-	-	-	3.2	12.8	38.6	67	96.6	100
P. vulgaris (4)	-	-	-	-	-	-	-	25	50	50	75	100

In Vivo Studies

Male Swiss–Webster mice were fasted overnight and then challenged by the intraperitoneal injection of sufficient pathogens to kill untreated animals within 72 hours. The challenge organisms included *Str. pyogenes*, *Str. pneumoniae*, *S. aureus*, *E. coli*, *K. pneumoniae* and *P. mirabilis*. Cefadroxil was given orally at the time of infection and repeated 2 hours later for *S. aureus* infections. In the case of the other organisms, cefadroxil was given orally at 1 and 3.5 hours after injection of the bacteria. The results are summarized in Table II.

TABLE II
Protective Activity of Cefadroxil in Mice

Organism (No. of Strains)	Challenge (Mean No. of Organisms)	Protective Dose ₅₀ (mg/kg)
<i>Str. pyogenes</i> (3)	6.7 X 10 ⁶	1.23
<i>Str. pneumoniae</i> (3)	2.0 X 10 ⁵	22
<i>S. aureus</i>		
- lacking penicillinase	1.5 X 10 ⁸	2.7
- with penicillinase	1.0 X 10 ⁹	18.5
<i>E. coli</i> (2)	6.0 X 10 ⁴	14
<i>K. pneumoniae</i> (1)	4.0 X 10 ⁴	85
<i>P. mirabilis</i> (1)	3.0 X 10 ⁶	64

Male Swiss–Webster mice were challenged by injecting *P. mirabilis* into the right hind leg muscle only (0.2 mL of a suspension containing 10⁸ organisms). Immediately following the bacterial challenge, cefadroxil was administered either orally or subcutaneously, and thigh enlargement was measured 24 hours later. When administered by the oral route, cefadroxil had an ED₅₀ of 85 mg/kg; the ED₅₀ was 80 mg/kg by the subcutaneous route.

β–Lactamase Susceptibility

The susceptibility of cefadroxil to hydrolysis by cell–free extracts containing different β–lactamases is shown in Table III.

TABLE III
Relative Susceptibility to Hydrolysis by Beta-Lactamases

Class	Enzyme		Organism (Source of Enzyme)	Relative Rate of Hydrolysis*
	Type			
I	a		<i>Enterobacter cloacae</i>	595
	b		<i>Escherichia coli</i>	48
II	a		<i>Proteus mirabilis</i>	<1
III	a		<i>E. coli</i>	<1
IV	a		<i>Klebsiella pneumoniae</i>	<1
	b		<i>K. pneumoniae</i>	2
-	-		<i>Staphylococcus aureus</i> (A9606)	<1

*(Benzyl penicillin = 100)

PHARMACOLOGY

Animal:

After oral administration of cefadroxil at 50 mg/kg to four groups of rats (sampling was performed at 0.5, 1, 2 and 4 hours), maximum concentrations were reached at 0.5 hours in the liver (18.9 µg/g), kidney (136 µg/g) and muscle (4.88 µg/g) and at 1 hour in the lungs (5.63 µg/g), spleen (3.88 µg/g) and heart (2.63 µg/g). In the brain insignificant concentrations were seen (0.83 µg/g).

Human:

Following oral administration, cefadroxil is well absorbed, with 93% of a 500 mg dose being recovered unchanged in the urine after 24 hours. The presence of food does not inhibit the absorption of cefadroxil from the gastrointestinal tract.

Approximately 20% of the dose of cefadroxil is bound to the serum proteins. The apparent volume of distribution is 14 to 17% of body weight.

Following single oral doses the total urinary excretion of cefadroxil has been determined in a number of experiments. The results are summarized in Table IV.

TABLE IV

Dose of Cefadroxil (mg)	Cumulative Urinary Excretion (mg)			Total 0-12 h
	0-3 h	3-6 h	6-12 h	
500	290	115	44	449
1000	455	264	111	830

The following table (Table V) shows various pharmacokinetic values for 500, 1000 and 2000 mg doses.

TABLE V
Pharmacokinetic Parameters in Normal Human Volunteers

Parameter	Dose of Cefadroxil (mg)		
	500	1000	2000
Time to peak concentration: T _{max} (h)	1.28	2.00	2.00
Peak concentration: C _{max} (µg/mL)	14.8	23.63	32.7
Area under the curve: AUC (µg/h/mL)	45.3	94.20	167.42
Half-life (h)	1.34	1.51	—

Lower Respiratory Tissue Levels

Seven patients received cefadroxil as a 500 mg single dose. At 12 hours, the pleural exudate contained cefadroxil at a level of 2.1 µg/mL compared to 0.8 µg/mL in the serum. The pleural fluid concentration after 8 hours and 12 hours following the administered dose is shown in Table VI.

TABLE VI
PLEURAL FLUID CONCENTRATION FOLLOWING A SINGLE 500 MG ORAL DOSE
OF CEFADROXIL

Number of Cases	Time (h) Post-Dose	Cefadroxil Concentration	
		Pleural Fluid (µg/mL)	Serum (µg/mL)
7	8	3.6	3.4
	12	2.1	0.8

In another study, following a single 1 g dose of cefadroxil, the mean pleural exudate and mean serum levels demonstrated a similar pattern 3 to 5 hours post administration i.e., the pleural fluid concentration is higher than the serum concentration (Table VII).

TABLE VII
MEASUREMENT OF CEFADROXIL IN RESPIRATORY TISSUES AND FLUIDS
FOLLOWING A SINGLE 1 G DOSE

Fluid or Tissue	Number of Cases	Time (h) Post-Dose	Cefadroxil Concentration	
			Fluids (µg/mL) Tissue (µg/mL)	Serum (µg/mL)
Sputum	9	3-4	1.3	Not done
Pleural Exudate	4	3-5	11.4	9.4
Lungs	22	2-4	7.4	11.5

Results from Table VI and Table VII indicate that tissue and fluid compartments act as a depot for cefadroxil after serum concentrations have diminished.

Renal Impairment

Twenty fasting patients with varying degrees of renal impairment as determined by creatinine clearance (from anuric to $1.76 \text{ mL/sec}/1.73\text{m}^2$ ($105.7 \text{ mL/min}/1.73\text{m}^2$)) were administered single 1000 mg doses of cefadroxil. Blood and urinary concentrations of cefadroxil were monitored for up to 48 hours after drug administration. The results of this study show that as creatinine clearance decreases the elimination rate constant also decreases but the half-life increases.

In another study, eight fasting patients with varying degrees of severe renal impairment were administered single 1000 mg doses of cefadroxil. Creatinine clearances varied from 0.004 to $0.54 \text{ mL/sec}/1.73\text{m}^2$, (0.24 to $32.35 \text{ mL/min}/1.73\text{m}^2$). Blood and urinary concentrations of cefadroxil were monitored for up to 48 hours after drug administration. A linear inverse correlation between the half-life of cefadroxil and creatinine clearance was observed.

TOXICOLOGY

Acute Toxicity:

The LD_{50} values (See Table VIII) were determined for cefadroxil in mice and rats. The observation period after the single injection was 7 days.

TABLE VIII

Species	Age	Sex	Number of Animals	Route of Administration	LD₅₀ (mg/kg)
Mouse ¹	Adult	M & F	80	Oral	>7000
Mouse ¹	Adult	M & F	80	Intraperitoneal	>7000
Mouse	Adult	M & F	40	Intravenous	>1500
Mouse	Adult	M & F	60	Subcutaneous	>5000
Rat	24-48 h	M & F	50	Oral	>8000
Rat ²	Adult	M & F	60	Oral	>8000
Rat ²	Adult	M & F	60	Intraperitoneal	>6000
Rat ²	Adult	M & F	40	Intravenous	>1000
Rat ²	Adult	M & F	40	Subcutaneous	>5000

¹Swiss-Webster mice

²Sprague-Dawley rats

There were no deaths observed in mice or in young rats. In adult rats, one death occurred following an intraperitoneal dose of 6000 mg/kg and 3 deaths following an intravenous dose of 1000 mg/kg. At high doses, ataxia, decreased activity and prostration were observed.

Two adult beagle dogs (one male and one female) received cefadroxil orally at a dose of 500 mg/kg. One of the animals exhibited emesis and slight drowsiness while the other exhibited moderate drowsiness and had a slight increase in the heart rate.

Subacute Toxicity:

Four groups of 30 Sprague–Dawley rats (15 males and 15 females) received cefadroxil administered orally at doses of 0, 200, 400 or 600 mg/kg/day for 14 weeks. In males dosed at 400 and 600 mg/kg, liver weights were increased by 11% and the combined relative weights of seminal vesicles and prostate glands were decreased by 16 to 21% for all treated groups. Adrenal

weights of females in the 400 and 600 mg/kg groups were decreased by 12 to 16%. At autopsy no histological abnormalities were observed.

Three groups of 10 male and 10 female weanling rats were administered cefadroxil, by gavage, at doses of 0, 2000 or 4000 mg/kg/day for 4 weeks. An increase in SGPT (112%) in half of the animals in the 2 treated groups; a slight decrease in serum protein levels in both treated groups; and a decrease in serum glucose values in the high dose groups were observed. At necropsy increased cecum size (1.5 to 3 fold) and decreased heart (10.5 to 15.9%), liver (4.9 to 6.1%) and spleen (10.8 to 25.7%) weights were seen, although no histological changes in the organs were noted.

Cefadroxil was administered orally at doses of 0, 100, 200 or 400 mg/kg/day to four groups of young beagle dogs (3 males and 3 females per group) for a period of 13 weeks. By the end of the study, the animals in the 200 and 400 mg/kg/dose groups had a marginally lower food intake (10 to 18%) and body weight (6.8%). At autopsy, no histological abnormalities were observed. However, in the high dose group, the spleen and gonad weights in female dogs were elevated (78% and 88%, respectively) while in the 200 mg/kg dose group, the relative adrenal weights were increased by 45%. At all drug dose levels, there was an increased incidence of emesis (dose related) and proteinuria.

Chronic Toxicity:

Four groups of 30 Charles River rats (15 males and 15 females) received cefadroxil administered orally (admixed in the feed) at doses of 0, 100, 316 or 1000 mg/kg/day for a period of 26 weeks. There were no deaths, however, significantly increased ($p < 0.05$) kidney weights in the middle (11%) and high (16%) dose group males were observed.

Cefadroxil was administered to four groups of beagle dogs (3 males and 3 females) at doses of 0, 200, 400 or 600 mg/kg/day for 26 weeks (once a day for the first week, then twice daily for the remainder of the experiment). A decrease was seen in weight gain (24.6%) in the middle dose

female group and in all treated groups a slight decrease in total serum proteins and albumin levels were observed.

Renal Toxicity:

Male mice were pretreated with intraperitoneal injections of furosemide (20 or 40 mg/kg) or 0.9% saline. Fifteen minutes later they were injected intraperitoneally with 0.9% saline or doses of 1396, 2792 or 5584 mg/kg of cefadroxil. Forty–eight hours following the injections, urine evaluation (pH, glucose and urine protein) and histological examination of kidneys were conducted. A slight weight loss in the high dose cefadroxil group pretreated with furosemide was noted. No evidence of renal injury was observed.

Fertility and Reproduction Study:

Cefadroxil administered orally at doses of 0, 200 or 400 mg/kg/day during gestation to three groups of 40 Sprague–Dawley rats per group (15 males and 25 females) did not modify pregnancy nor alter the percentage of resorptions. The males were dosed for 77 days prior to mating and the females for 14 days prior to mating. The percentage of stillbirths in each group was 3.3, 1.8 and 1.3 for the 400, 200 and 0 mg/kg dose groups, respectively.

Teratology Studies:

No discernible effect on nidation or on maternal or fetal survival was found after the oral administration of cefadroxil at doses of 0, 100, 250 or 500 mg/kg/day given b.i.d. to pregnant Sprague–Dawley rats and Swiss mice on gestation day 6 through day 15.

Perinatal–Postnatal Study:

Pregnant Sprague–Dawley rats received cefadroxil administered in doses of 0, 250 or 500 mg/kg/day given b.i.d. from day 14 of gestation to post–partum day 21. There were no adverse drug related effects on fetal birth weight, survival or growth observed.

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READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE
PATIENT MEDICATION INFORMATION

TEVA-CEFADROXIL
(Cefadroxil Capsules)
500mg
USP

Read this carefully before you start taking TEVA-CEFADROXIL and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about TEVA-CEFADROXIL.

What is TEVA-CEFADROXIL used for?

TEVA-CEFADROXIL is used to treat infections caused certain bacteria in the:

- Urinary tract.
- Skin.
- Throat (including Pharyngitis and/or tonsillitis).
- Lungs (including pneumonia).

Antibacterial drugs like TEVA-CEFADROXIL treat only bacterial infections. They do not treat viral infections.

How does TEVA-CEFADROXIL work?

TEVA-CEFADROXIL is an antibiotic, which belongs to a class of drugs called cephalosporins. TEVA-CEFADROXIL works by killing bacteria which cause infections in the body.

What are the ingredients in TEVA-CEFADROXIL?

Medicinal ingredients: Cefadroxil

Non-medicinal ingredients: Colloidal silicon dioxide, croscarmellose sodium, magnesium stearate and sodium lauryl sulfate.

TEVA-CEFADROXIL comes in the following dosage forms:

Capsules: 500 mg

Do not use TEVA-CEFADROXIL if:

Do not take TEVA-CEFADROXIL if you have had an allergic reaction to TEVA-CEFADROXIL or other medicines such as cephalosporins.

Before starting TEVA-CEFADROXIL and to get the best possible treatment, be sure to tell your doctor if you:

- Have had an allergic reaction to TEVA-CEFADROXIL or other medicines such as

penicillins;

- Have severe kidney disease with or without significant liver disease;
- Are pregnant or could become pregnant during treatment;
- Are breast feeding or planning to breast feed.

Other warnings that you should know about:

TEVA-CEFADROXIL may cause inflammation of the colon (colitis), with symptoms such as diarrhea. Talk to your doctor if you experience any intestinal side effects.

TEVA-CEFADROXIL may affect the results of urine tests. Talk to your healthcare professional if you take any urine tests while taking TEVA-CEFADROXIL.

Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.

How to take TEVA-CEFADROXIL:

- TEVA-CEFADROXIL may be taken with or without food. Taking TEVA-CEFADROXIL may help reduce intestinal issues.
- Although you may feel better early in treatment, TEVA-CEFADROXIL should be used exactly as directed.
- Misuse or overuse of TEVA-CEFADROXIL could lead to the growth of bacteria that will not be killed by TEVA-CEFADROXIL (resistance). This means that TEVA-CEFADROXIL may not work for you in the future.
- Do not share your medicine.

Usual Adult Dose:

Your doctor will tell you how much TEVA-CEFADROXIL to take. Your dose may be 2 – 4 capsules per day, depending on your condition.

Overdose:

If you think you have taken too much TEVA-CEFADROXIL, contact your healthcare professional, hospital emergency department or regional poison control centre immediately, even if there are no symptoms.

What are possible side effects from using TEVA-CEFADROXIL?

These are not all the possible side effects you may feel when taking TEVA-CEFADROXIL. If you experience any side effects not listed here, contact your healthcare professional.

- rash
- abdominal cramps

- upset stomach
- heartburn
- flatulence (gas)
- dizziness
- weakness
- drowsiness
- nervousness
- headache

Serious side effects and what to do about them

Symptom / effect		Talk to your healthcare professional		Stop taking drug and get immediate medical help
		Only if severe	In all cases	
Uncommon	An allergic reaction (difficulty in breathing, closing of the throat, swelling of the lips, face or tongue; hives or a rash)			✓
	Redness, or itching			✓
	Severe nausea, vomiting, or diarrhea			✓
Unknown	Severe Cutaneous Adverse Reactions (SCAR) (severe skin reactions that may also affect other organs): • Skin peeling, scaling, or blistering (with or without pus) which may also affect your eyes, mouth, nose or genitals, itching, severe rash, bumps under the skin, skin pain, skin color changes			✓

	(redness, yellowing, purplish) • Swelling and redness of eyes or face • Flu-like feeling, fever, chills, body aches, swollen glands, cough • Shortness of breath, chest pain or discomfort			
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If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, talk to your healthcare professional.

Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada/adverse-reaction-reporting.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

How to store TEVA-CEFADROXIL:

Store between 15°–30°C. Protect from high humidity. Keep out of reach and sight of children.

If you want more information about TEVA-CEFADROXIL:

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website (<http://hc-sc.gc.ca/index-eng.php>); the manufacturer’s website <http://www.tevacanada.com>; or by calling 1-800-268-4127 ext. 3; or email druginfo@tevacanada.com.

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