

CEFDINIR - cefdinir powder, for suspension
Dispensing Solutions, Inc.

Cefdinir for Oral Suspension USP

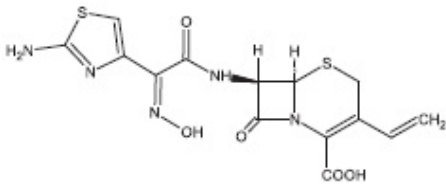
125 mg/5 mL and 250 mg/5 mL

Rx only

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

DESCRIPTION

Cefdinir for oral suspension contains the active ingredient cefdinir, an extended-spectrum, semisynthetic cephalosporin, for oral administration. Chemically, cefdinir is [6R-[6 α ,7 β (Z)]]-7-[[[(2-amino-4-thiazolyl)(hydroxyimino)acetyl]amino]-3-ethenyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid. Cefdinir is a white to slightly brownish-yellow solid. It is slightly soluble in dilute hydrochloric acid and sparingly soluble in 0.1 M pH 7.0 phosphate buffer. The molecular formula is C₁₄H₁₃N₅O₅S₂ and the molecular weight is 395.42. Cefdinir has the structural formula shown below:



Cefdinir

Cefdinir for oral suspension, after reconstitution, contains 125 mg cefdinir per 5 mL or 250 mg cefdinir per 5 mL and the following inactive ingredients: anhydrous citric acid; colloidal silicon dioxide; guar gum; anhydrous sodium citrate; sodium benzoate; strawberry flavour; sucrose; and xanthan gum.

INDICATIONS AND USAGE

To reduce the development of drug-resistant bacteria and maintain the effectiveness of cefdinir for oral suspension and other antibacterial drugs, cefdinir for oral suspension should be used only to treat or prevent infections that are proven or strongly suspected to be caused by susceptible bacteria. When culture and susceptibility information are available, they should be considered in selecting or modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.

Cefdinir for oral suspension is indicated for the treatment of patients with mild to moderate infections caused by susceptible strains of the designated microorganisms in the conditions listed below.

Adults and Adolescents:

Enter section text here

Pediatric Patients:

Enter section text here

CONTRAINDICATIONS

Cefdinir is contraindicated in patients with known allergy to the cephalosporin class of antibiotics.

WARNINGS

BEFORE THERAPY WITH CEFDINIR IS INSTITUTED, CAREFUL INQUIRY SHOULD BE MADE TO DETERMINE WHETHER THE PATIENT HAS HAD PREVIOUS HYPERSENSITIVITY REACTIONS TO CEFDINIR, OTHER CEPHALOSPORINS, PENICILLINS, OR OTHER DRUGS. IF CEFDINIR IS TO BE GIVEN TO PENICILLIN-SENSITIVE PATIENTS, CAUTION SHOULD BE EXERCISED BECAUSE CROSS-HYPERSENSITIVITY AMONG β -LACTAM ANTIBIOTICS HAS BEEN CLEARLY DOCUMENTED AND MAY OCCUR IN UP TO 10% OF PATIENTS WITH A HISTORY OF PENICILLIN ALLERGY. IF AN ALLERGIC REACTION TO CEFDINIR OCCURS, THE DRUG SHOULD BE DISCONTINUED. SERIOUS ACUTE HYPERSENSITIVITY REACTIONS MAY REQUIRE TREATMENT WITH EPINEPHRINE AND OTHER EMERGENCY MEASURES, INCLUDING OXYGEN, INTRAVENOUS FLUIDS, INTRAVENOUS ANTIHISTAMINES, CORTICOSTEROIDS, PRESSOR AMINES, AND AIRWAY MANAGEMENT, AS CLINICALLY INDICATED.

Clostridium difficile associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including cefdinir, and may range in severity from mild diarrhea to fatal colitis. Treatment with antibacterial agents alters the normal flora of the colon leading to overgrowth of *C. difficile*.

C. difficile produces toxins A and B which contribute to the development of CDAD. Hypertoxin producing strains of *C. difficile* cause increased morbidity and mortality, as these infections can be refractory to antimicrobial therapy and may require colectomy. CDAD must be considered in all patients who present with diarrhea following antibiotic use. Careful medical history is necessary since CDAD has been reported to occur over two months after the administration of antibacterial agents.

If CDAD is suspected or confirmed, ongoing antibiotic use not directed against *C. difficile* may need to be discontinued. Appropriate fluid and electrolyte management, protein supplementation, antibiotic treatment of *C. difficile*, and surgical evaluation should be instituted as clinically indicated.

OVERDOSAGE

Information on cefdinir overdosage in humans is not available. In acute rodent toxicity studies, a single oral 5600 mg/kg dose produced no adverse effects. Toxic signs and symptoms following overdosage with other β -lactam antibiotics have included nausea, vomiting, epigastric distress, diarrhea, and convulsions. Hemodialysis removes cefdinir from the body. This may be useful in the event of a serious toxic reaction from overdosage, particularly if renal function is compromised.

DOSAGE AND ADMINISTRATION

(see INDICATIONS AND USAGE for Indicated Pathogens)

The recommended dosage and duration of treatment for infections in pediatric patients are described in the following chart; the total daily dose for all infections is 14 mg/kg, up to a maximum dose of 600 mg per day. Once-daily dosing for 10 days is as effective as BID dosing. Once-daily dosing has not been studied in skin infections; therefore, cefdinir for oral suspension should be administered twice daily in this infection. Cefdinir for oral suspension may be administered without regard to meals.

Pediatric Patients (Age 6 Months Through 12 Years)

Type of Infection	Dosage	Duration
Acute Bacterial Otitis Media	7 mg/kg q12h or	5 to 10 days
	14 mg/kg q24h	10 days
Acute Maxillary Sinusitis	7 mg/kg q12h or	10 days
	14 mg/kg q24h	10 days
Pharyngitis/Tonsillitis	7 mg/kg q12h or	5 to 10 days
	14 mg/kg q24h	10 days
Uncomplicated Skin and Skin Structure Infections	7 mg/kg q12h	10 days

CEFDINIR FOR ORAL SUSPENSION PEDIATRIC DOSAGE CHART

Weight	125 mg/5 mL	250 mg/5 mL
9 kg/20 lbs	2.5 mL q12h or 5 mL q24h	Use 125 mg/5 mL product
18 kg/40 lbs	5 mL q12h or 10 mL q24h	2.5 mL q12h or 5 mL q24h
27 kg/60 lbs	7.5 mL q12h or 15 mL q24h	3.75 mL q12h or 7.5 mL q24h
36 kg/80 lbs	10 mL q12h or 20 mL q24h	5 mL q12h or 10 mL q24h
≥43 kg a/95 lbs	12 mL q12h or 24 mL q24h	6 mL q12h or 12 mL q24h

^a Pediatric patients who weight ≥43 kg should receive the maximum daily dose of 600 mg.

Patients With Renal Insufficiency:

For adult patients with creatinine clearance less than 30 mL/min, the dose of cefdinir should be 300 mg given once daily.

Creatinine clearance is difficult to measure in outpatients. However, the following formula may be used to estimate creatinine clearance (CL_{CR}) in adult patients. For estimates to be valid, serum creatinine levels should reflect steady-state levels of renal function.

(weight) (140 – age)

Males: CL_{CR} = $\frac{\text{—————}}{\text{—————}}$

(72) (serum creatinine)

Females: CL_{CR} = 0.85 x above value

where creatinine clearance is in mL/min, age is in years, weight is in kilograms, and serum creatinine is in mg/dL.⁽³⁾

The following formula may be used to estimate creatinine clearance in pediatric patients:

body length or height

CL_{CR} = K x $\frac{\text{—————}}{\text{—————}}$

serum creatinine

where K = 0.55 for pediatric patients older than 1 year⁽⁴⁾ and 0.45 for infants (up to 1 year)⁽⁵⁾.

In the above equation, creatinine clearance is in mL/min/1.73 m², body length or height is in centimeters, and serum creatinine is in mg/dL.

For pediatric patients with a creatinine clearance of less than 30 mL/min/1.73 m², the dose of cefdinir should be 7 mg/kg (up to 300 mg) given once daily.

Patients on Hemodialysis:

Hemodialysis removes cefdinir from the body. In patients maintained on chronic hemodialysis, the recommended initial dosage regimen is a 300 mg or 7 mg/kg dose every other day. At the conclusion of each hemodialysis session, 300 mg (or 7 mg/kg) should be given. Subsequent doses (300 mg or 7 mg/kg) are then administered every other day.

Directions for Mixing

Final Concentration	Final Volume(mL)	Amount of Water	Directions
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125 mg/5 mL	60	35 mL	Tap bottle to loosen the powder, then add water in 2 portions. Shake well after each aliquot.
	100	58 mL	
250 mg/5 mL	60	35 mL	Tap bottle to loosen the powder, then add water in 2 portions. Shake well after each aliquot.
	100	58 mL	

After mixing, the suspension can be stored at 20°-25°C (68°-77°F). The container should be kept tightly closed, and the suspension should be shaken well before each administration. The suspension may be used for 10 days, after which any unused portion must be discarded.

HOW SUPPLIED

Cefdinir for oral suspension USP, is an off-white to creamish powder formulation that, when reconstituted as directed, contains 125 mg cefdinir/5 mL or 250 mg cefdinir/5 mL. The reconstituted suspension has an off-white to creamish color and strawberry flavor. The powder is available as follows:

125 mg/5 mL:

60 mL bottles NDC 68180-722-20

100 mL bottles NDC 68180-722-10

250 mg/5 mL:

60 mL bottles NDC 68180-723-20

100 mL bottles NDC 68180-723-10

Store dry powder and reconstituted suspension at 20°-25°C (68°-77°F); [see USP Controlled Room Temperature].

REFERENCES

1. National Committee for Clinical Laboratory Standards. Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria That Grow Aerobically, 4th ed. Approved Standard, NCCLS Document M7-A4, Vol 17(2). NCCLS, Villanova, PA, Jan 1997.
2. National Committee for Clinical Laboratory Standards. Performance Standards for Antimicrobial Disk Susceptibility Tests, 6th ed. Approved Standard, NCCLS Document M2-A6, Vol 17(1). NCCLS, Villanova, PA, Jan 1997.
3. Cockcroft DW, Gault MH. Prediction of creatinine clearance from serum creatinine. *Nephron*, 1976;16:31-41.
4. Schwartz GJ, Haycock GB, Edelmann CM, Spitzer A. A simple estimate of glomerular filtration rate in children derived from body length and plasma creatinine. *Pediatrics* 1976;58:259-63.
5. Schwartz GJ, Feld LG, Langford DJ. A simple estimate of glomerular filtration rate in full-term infants during the first year of life. *J Pediatrics* 1984;104:849-54.

Manufactured for:

Lupin Pharmaceuticals, Inc.

Baltimore, Maryland 21202

United States

Manufactured by:

Lupin Limited

Mandideep 462 046

INDIA

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Tes-tape[®] is a registered trademark of Lilly.

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ID#: 218627

PRINCIPAL DISPLAY PANEL

<p>BULK SOURCE DATA MFD. FOR: LUPIN PHARMACEUTICALS, INC. BALTIMORE, MD 21202</p> <p>PRODUCT ID: WHITE ROUND BOTTLE LIME GREEN / WHITE / BLACK / YELLOW / RED LABEL PRINTED NDC 68180-723-10</p> <p>BULK SOURCE NDC: 68180-0723-10 MFR. LOT: XXXXXX PEDIGREE #: 21400842 DISPENSE IN THIS TIGHT/LIGHT RESISTANT CONTAINER</p>  <p>MUST BE IN LIQUID FORM TAKE ___ TEASPOONFUL(S) ORALLY ___ TIMES A DAY. SHAKE WELL & REFRIGERATE. DISCARD UNUSED PORTION AFTER 10 DAYS.</p>	 <p>CEFDINIR 250 mg/5 mL FOR ORAL SUSPENSION 100 mL (WHEN MIXED) NDC 68258-3053-01 PRODUCT # 1C2534</p> <p>WHEN RECONSTITUTED, EACH TEASPOONFUL (5 mL) CONTAINS: 250 mg OF CEFDINIR USP</p> <p>LOT# SAMPLE EXP:00-00 Rx # 25998650 RX ONLY</p>	<p>WARNING: KEEP OUT OF CHILDREN'S REACH STORE DRY POWER AT 68°- 77° F. SEE USP.</p> <p>1C2534 NDC 68258-3053-01 CEFDINIR 250 mg/5 mL 100 mL (WHEN MIXED) FOR ORAL SUSPENSION LOT # SAMPLE EXP: 00-00 MN 68180-0723-10 RX# 25998650</p> <p>1C2534 NDC 68258-3053-01 CEFDINIR 250 mg/5 mL 100 mL (WHEN MIXED) FOR ORAL SUSPENSION LOT # SAMPLE EXP: 00-00 MN 68180-0723-10 RX# 25998650</p> <p>1C2534 NDC 68258-3053-01 CEFDINIR 250 mg/5 mL 100 mL (WHEN MIXED) FOR ORAL SUSPENSION LOT # SAMPLE EXP: 00-00 MN 68180-0723-10 RX# 25998650</p>  <p>Packaged Exclusively By: DISPENSING SOLUTIONS, INC. Santa Ana, CA 92704</p>
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NDC 68258-3053-01

CEFDINIR			
cefdinir powder, for suspension			
Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68258-3053(NDC:68180-723)
Route of Administration	ORAL		
Active Ingredient/Active Moiety			
	Ingredient Name	Basis of Strength	Strength
	CEFDINIR (UNII: C10FA063WC) (CEFDINIR - UNII:C10FA063WC)	CEFDINIR	250 mg in 5 mL
Inactive Ingredients			
	Ingredient Name		Strength
	CITRIC ACID MONOHYDRATE (UNII: 2968PHW8QP)		
	COLLOIDAL SILICON DIOXIDE (UNII: ETJ7Z6XBU4)		
	GUAR GUM (UNII: E891I637KE)		
	SODIUM BENZOATE (UNII: OJ245FE5EU)		
	SODIUM CITRATE (UNII: 1Q73Q2JULR)		
	STRAWBERRY (UNII: 4J2TY8 Y8 1V)		
	SUCROSE (UNII: C151H8 M554)		
	XANTHAN GUM (UNII: TTV12P4NEE)		
Product Characteristics			
Color		Score	
Shape		Size	
Flavor	STRAWBERRY (Strawberry)	Imprint Code	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68258-3053-1	100 mL in 1 BOTTLE		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA065259	05/01/2007	

Labeler - Dispensing Solutions, Inc. (066070785)**Registrant** - PSS World Medical, Inc. (101822682)**Establishment**

Name	Address	ID/FEI	Business Operations
Dispensing Solutions, Inc.		066070785	relabel, repack

Revised: 2/2012

Dispensing Solutions, Inc.