

**AMOXICILLIN AND CLAVULANATE POTASSIUM- amoxicillin and clavulanate potassium powder, for suspension**  
**Aidarex Pharmaceuticals LLC**

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**Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL Powder for Oral Suspension**

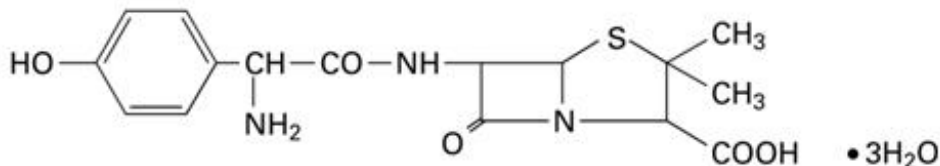
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**PRESCRIBING INFORMATION**

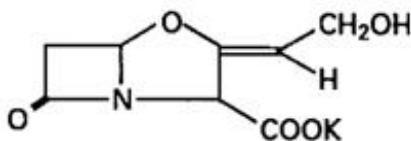
To reduce the development of drug-resistant bacteria and maintain the effectiveness of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL and other antibacterial drugs, Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria.

**DESCRIPTION**

Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL is an oral antibacterial combination consisting of the semisynthetic antibiotic amoxicillin and the  $\beta$ -lactamase inhibitor, clavulanate potassium (the potassium salt of clavulanic acid). Amoxicillin is an analog of ampicillin, derived from the basic penicillin nucleus, 6-aminopenicillanic acid. The amoxicillin molecular formula is  $C_{16}H_{19}N_3O_5S \cdot 3H_2O$ , and the molecular weight is 419.46. Chemically, amoxicillin is (2S,5R,6R)-6-[(R)-(-)-2-Amino-2-(p-hydroxyphenyl)acetamido]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid trihydrate and may be represented structurally as:



Clavulanic acid is produced by the fermentation of *Streptomyces clavuligerus*. It is a  $\beta$ -lactam structurally related to the penicillins and possesses the ability to inactivate a wide variety of  $\beta$ -lactamases by blocking the active sites of these enzymes. Clavulanic acid is particularly active against the clinically important plasmid-mediated  $\beta$ -lactamases frequently responsible for transferred drug resistance to penicillins and cephalosporins. The clavulanate potassium molecular formula is  $C_8H_8KNO_5$ , and the molecular weight is 237.25. Chemically, clavulanate potassium is potassium (Z)-(2R,5R)-3-(2-hydroxyethylidene)-7-oxo-4-oxa-1-azabicyclo[3.2.0]heptane-2-carboxylate and may be represented structurally as:



**Inactive Ingredients:**

Powder for Oral Suspension- Colloidal silicon dioxide, strawberry cream flavor, xanthan gum, aspartame<sup>a</sup>, sodium carboxymethylcellulose, and silicon dioxide.

<sup>a</sup> See PRECAUTIONS—Information for the Patient/Phenylketonurics.

Each 5 mL of reconstituted 600 mg/42.9 mg per 5 mL oral suspension of Amoxicillin and Clavulanate Potassium contains 0.23 mEq potassium.

## CLINICAL PHARMACOLOGY

The pharmacokinetics of amoxicillin and clavulanate were determined in a study of 19 pediatric patients, 8 months to 11 years, given Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL at an amoxicillin dose of 45 mg/kg q12h with a snack or meal. The mean plasma amoxicillin and clavulanate pharmacokinetic parameter values are listed in the following table.

**Table 1. Mean (±SD) Plasma Amoxicillin and Clavulanate Pharmacokinetic Parameter Values Following Administration of 45 mg/kg of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL Every 12 Hours to Pediatric Patients**

PARAMETER*	AMOXICILLIN	CLAVULANATE
C <sub>max</sub> (mcg/mL)	15.7 ± 7.7	1.7 ± 0.9
T <sub>max</sub> (hr)	2.0 (1.0 - 4.0)	1.1 (1.0 - 4.0)
AUC <sub>0-t</sub> (mcg·hr/mL)	59.8 ± 20.0	4.0 ± 1.9
T <sub>1/2</sub> (hr)	1.4 ± 0.3	1.1 ± 0.3
CL/F (L/hr/kg)	0.9 ± 0.4	1.1 ± 1.1

\* Arithmetic mean ± standard deviation, except T<sub>max</sub> values which are medians (ranges).

The effect of food on the oral absorption of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL has not been studied.

Approximately 50% to 70% of the amoxicillin and approximately 25% to 40% of the clavulanic acid are excreted unchanged in urine during the first 6 hours after administration of 10 mL of 250 mg/5 mL suspension of amoxicillin and clavulanate potassium.

Concurrent administration of probenecid delays amoxicillin excretion but does not delay renal excretion of clavulanic acid.

Neither component in Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL is highly protein-bound; clavulanic acid has been found to be approximately 25% bound to human serum and amoxicillin approximately 18% bound.

Oral administration of a single dose of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL at 45 mg/kg (based on the amoxicillin component) to pediatric patients, 9 months to 8 years, yielded the following pharmacokinetic data for amoxicillin in plasma and middle ear fluid (MEF).

**Table 2. Amoxicillin Concentrations in Plasma and Middle Ear Fluid Following Administration of 45 mg/kg of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL to Pediatric Patients**

Timepoint		Amoxicillin concentration in plasma (mcg/mL)	Amoxicillin concentration in MEF (mcg/mL)
1 hour	mean	7.7	3.2
	median	9.3	3.5
	range	1.5 - 14.0	0.2 - 5.5
		(n = 5)	(n = 4)
2 hour	mean	15.7	3.3

3 hour	median	13.0	2.4
	range	11.0 - 25.0 (n= 7)	1.9 - 6 (n = 5)
	mean	13.0	5.8
	median range	12.0 5.5 - 21.0 (n = 5)	6.5 3.9 - 7.4 (n = 5)

Dose administered immediately prior to eating.

Amoxicillin diffuses readily into most body tissues and fluids with the exception of the brain and spinal fluid. The results of experiments involving the administration of clavulanic acid to animals suggest that this compound, like amoxicillin, is well distributed in body tissues.

### **Microbiology:**

Amoxicillin is a semisynthetic antibiotic with a broad spectrum of bactericidal activity against many gram-positive and gram-negative microorganisms. Amoxicillin is, however, susceptible to degradation by  $\beta$ -lactamases, and therefore, its spectrum of activity does not include organisms which produce these enzymes. Clavulanic acid is a  $\beta$ -lactam, structurally related to penicillin, which possesses the ability to inactivate a wide range of  $\beta$ -lactamase enzymes commonly found in microorganisms resistant to penicillins and cephalosporins. In particular, it has good activity against the clinically important plasmid-mediated  $\beta$ -lactamases frequently found responsible for transferred drug resistance.

The clavulanic acid component of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL protects amoxicillin from degradation by  $\beta$ -lactamase enzymes and effectively extends the antibiotic spectrum of amoxicillin to include many bacteria normally resistant to amoxicillin and other  $\beta$ -lactam antibiotics. Thus, Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL possesses the distinctive properties of a broad-spectrum antibiotic and a  $\beta$ -lactamase inhibitor.

Amoxicillin/clavulanic acid has been shown to be active against most isolates of the following microorganisms, both in vitro and in clinical infections as described in the **INDICATIONS AND USAGE** section.

#### ***Aerobic Gram-Positive Microorganisms:***

*Streptococcus pneumoniae* (including isolates with penicillin MICs  $\leq$  2 mcg/mL)

#### ***Aerobic Gram-Negative Microorganisms:***

*Haemophilus influenzae* (including  $\beta$ -lactamase-producing isolates)

*Moraxella catarrhalis* (including  $\beta$ -lactamase-producing isolates)

The following in vitro data are available, **but their clinical significance is unknown.**

At least 90% of the following microorganisms exhibit in vitro minimum inhibitory concentrations (MICs) less than or equal to the susceptible breakpoint for amoxicillin/clavulanic acid. However, the safety and efficacy of amoxicillin/clavulanic acid in treating infections due to these microorganisms have not been established in adequate and well-controlled trials.

#### ***Aerobic Gram-Positive Microorganisms:***

*Staphylococcus aureus* (including  $\beta$ -lactamase-producing isolates)

**NOTE:** Staphylococci which are resistant to methicillin/oxacillin must be considered resistant to amoxicillin/clavulanic acid.

*Streptococcus pyogenes*

**NOTE:** *S. pyogenes* do not produce  $\beta$ -lactamase, and therefore, are susceptible to amoxicillin alone. Adequate and well-controlled clinical trials have established the effectiveness of amoxicillin alone in treating certain clinical infections due to *S. pyogenes*.

### Susceptibility Test Methods:

When available, the clinical microbiology laboratory should provide cumulative results of in vitro susceptibility test results for antimicrobial drugs used in local hospitals and practice areas to the physician as periodic reports that describe the susceptibility profile of nosocomial and community-acquired pathogens. These reports should aid the physician in selecting the most effective antimicrobial.

#### Dilution Technique:

Quantitative methods are used to determine antimicrobial minimum inhibitory concentrations (MICs). These MICs provide estimates of the susceptibility of bacteria to antimicrobial compounds. The MICs should be determined using a standardized procedure.<sup>1,2</sup> Standardized procedures are based on dilution methods (broth for *S. pneumoniae* and *H. influenzae*) or equivalent with standardized inoculum concentration and standardized concentrations of amoxicillin/clavulanate potassium powder.

The recommended dilution pattern utilizes a constant amoxicillin/clavulanate potassium ratio of 2 to 1 in all tubes with varying amounts of amoxicillin. MICs are expressed in terms of the amoxicillin concentration in the presence of clavulanic acid at a constant 2 parts amoxicillin to 1 part clavulanic acid. The MIC values should be interpreted according to criteria provided in Table 3.

#### Diffusion Technique:

Quantitative methods that require measurement of zone diameters also provides reproducible estimates of the susceptibility of bacteria to antimicrobials. One such standardized technique requires the use of a standardized inoculum concentration.<sup>2,3</sup> This procedure uses paper disks impregnated with 30 mcg amoxicillin/clavulanate potassium (20 mcg amoxicillin plus 10 mcg clavulanate potassium) to test susceptibility of microorganisms to amoxicillin/clavulanate potassium. Disk diffusion zone sizes should be interpreted according to criteria provided in Table 3.

**Table 3. Susceptibility Test Result Interpretive Criteria for Amoxicillin/Clavulanate Potassium**

Pathogen	Minimum Inhibitory Concentration (mcg/mL)			Disk Diffusion (Zone Diameter in mm)		
	S	I	R	S	I	R
<i>Streptococcus pneumoniae</i> (non-meningitis isolates)	≤ 2/1	4/2	≥ 8/4	Not Applicable (NA)		
<i>Haemophilus influenzae</i>	≤ 4/2	NA	≥ 8/4	≥ 20	NA	≤ 19

**NOTE:** Susceptibility of *S. pneumoniae* should be determined using a 1-mcg oxacillin disk. Isolates with oxacillin zone sizes of ≥ 20 mm are susceptible to amoxicillin/clavulanic acid. An amoxicillin/clavulanic acid MIC should be determined on isolates of *S. pneumoniae* with oxacillin zone sizes of ≤ 19 mm.

**NOTE:**  $\beta$ -lactamase–negative, ampicillin-resistant *H. influenzae* isolates must be considered resistant to amoxicillin/clavulanic acid.

A report of S (“Susceptible”) indicates that the antimicrobial is likely to inhibit growth of the pathogen

if the antimicrobial compound in the blood reaches the concentration usually achievable. A report of I (“Intermediate”) indicates that the result should be considered equivocal, and, if the microorganism is not fully susceptible to alternative, clinically feasible antimicrobials, the test should be repeated. This category implies possible clinical applicability in body sites where the drug is physiologically concentrated or in situations where high doses of antimicrobial can be used. This category also provides a buffer zone that prevents small uncontrolled technical factors from causing major discrepancies in interpretation. A report of R (“Resistant”) indicates that the antimicrobial is not likely to inhibit growth of the pathogen if the antimicrobial compound in the blood reaches the concentration usually achievable; other therapy should be selected.

Standardized susceptibility test procedures require the use of quality control microorganisms to determine the performance of the test procedures.<sup>1-3</sup> Standard amoxicillin/clavulanate potassium powder should provide the MIC ranges for the quality control organisms in Table 4. For the disk diffusion technique, the 30 mcg-amoxicillin/clavulanate potassium disk should provide the zone diameter ranges for the quality control organisms in Table 4.

**Table 4. Acceptable Quality Control Ranges for Amoxicillin/Clavulanate Potassium**

Quality Control Organism	Minimum Inhibitory Concentration Range (mcg/mL)	Disk Diffusion (Zone Diameter Range in mm)
<i>Escherichia coli</i> ATCC®* 35218 † ( <i>H. influenzae</i> quality control)	4/2 to 16/8	17 to 22
<i>Haemophilus influenzae</i> ATCC 49247	2/1 to 16/8	15 to 23
<i>Streptococcus pneumoniae</i> ATCC 49619	0.03/0.016 to 0.12/0.06	NA

\* ATCC is a trademark of the American Type Culture Collection.

† When using *Haemophilus* Test Medium (HTM).

## INDICATIONS AND USAGE

Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL is indicated for the treatment of pediatric patients with recurrent or persistent acute otitis media due to *S. pneumoniae* (penicillin MICs  $\leq$  2 mcg/mL), *H. influenzae* (including  $\beta$ -lactamase-producing strains), or *M. catarrhalis* (including  $\beta$ -lactamase-producing strains) characterized by the following risk factors:

- antibiotic exposure for acute otitis media within the preceding 3 months, and either of the following:
  - age  $\leq$  2 years
  - daycare attendance

[See CLINICAL PHARMACOLOGY, Microbiology.]

**NOTE:** Acute otitis media due to *S. pneumoniae* alone can be treated with amoxicillin. Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL is not indicated for the treatment of acute otitis media due to *S. pneumoniae* with penicillin MIC  $\geq$  4 mcg/mL.

Therapy may be instituted prior to obtaining the results from bacteriological studies when there is reason to believe the infection may involve both *S. pneumoniae* (penicillin MIC  $\leq$  2 mcg/mL) and the  $\beta$ -lactamase-producing organisms listed above.

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL and other antibacterial drugs, Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL 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.

## CONTRAINDICATIONS

Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL is contraindicated in patients with a history of allergic reactions to any penicillin. It is also contraindicated in patients with a previous history of cholestatic jaundice/hepatic dysfunction associated with AMOXICILLIN AND CLAVULANATE POTASSIUM.

## WARNINGS

SERIOUS AND OCCASIONALLY FATAL HYPERSENSITIVITY (ANAPHYLACTIC) REACTIONS HAVE BEEN REPORTED IN PATIENTS ON PENICILLIN THERAPY. THESE REACTIONS ARE MORE LIKELY TO OCCUR IN INDIVIDUALS WITH A HISTORY OF PENICILLIN HYPERSENSITIVITY AND/OR A HISTORY OF SENSITIVITY TO MULTIPLE ALLERGENS. THERE HAVE BEEN REPORTS OF INDIVIDUALS WITH A HISTORY OF PENICILLIN HYPERSENSITIVITY WHO HAVE EXPERIENCED SEVERE REACTIONS WHEN TREATED WITH CEPHALOSPORINS. BEFORE INITIATING THERAPY WITH AMOXICILLIN AND CLAVULANATE POTASSIUM 600 MG/42.9 MG PER 5 ML, CAREFUL INQUIRY SHOULD BE MADE CONCERNING PREVIOUS HYPERSENSITIVITY REACTIONS TO PENICILLINS, CEPHALOSPORINS, OR OTHER ALLERGENS. IF AN ALLERGIC REACTION OCCURS, AMOXICILLIN AND CLAVULANATE POTASSIUM 600 MG/42.9 MG PER 5 ML SHOULD BE DISCONTINUED AND THE APPROPRIATE THERAPY INSTITUTED. **SERIOUS ANAPHYLACTIC REACTIONS REQUIRE IMMEDIATE EMERGENCY TREATMENT WITH EPINEPHRINE. OXYGEN, INTRAVENOUS STEROIDS, AND AIRWAY MANAGEMENT, INCLUDING INTUBATION, SHOULD ALSO BE ADMINISTERED AS INDICATED.**

**Pseudomembranous colitis has been reported with nearly all antibacterial agents, including amoxicillin/clavulanate potassium, and has ranged in severity from mild to life-threatening. Therefore, it is important to consider this diagnosis in patients who present with diarrhea subsequent to the administration of antibacterial agents.**

Treatment with antibacterial agents alters the normal flora of the colon and may permit overgrowth of clostridia. Studies indicate that a toxin produced by *Clostridium difficile* is one primary cause of “antibiotic-associated colitis.”

After the diagnosis of pseudomembranous colitis has been established, appropriate therapeutic measures should be initiated. Mild cases of pseudomembranous colitis usually respond to drug discontinuation alone. In moderate to severe cases, consideration should be given to management with fluids and electrolytes, protein supplementation, and treatment with an antibacterial drug clinically effective against *C. difficile colitis*.

Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL should be used with caution in patients with evidence of hepatic dysfunction. Hepatic toxicity associated with the use of amoxicillin/clavulanate potassium is usually reversible. On rare occasions, deaths have been reported (less than 1 death reported per estimated 4 million prescriptions worldwide). These have generally been cases associated with serious underlying diseases or concomitant medications. (See CONTRAINDICATIONS and ADVERSE REACTIONS—Liver.)

## PRECAUTIONS

### General:

While amoxicillin/clavulanate possesses the characteristic low toxicity of the penicillin group of

antibiotics, periodic assessment of organ system functions, including renal, hepatic, and hematopoietic function, is advisable if therapy is for longer than the drug is approved for administration.

A high percentage of patients with mononucleosis who receive ampicillin develop an erythematous skin rash. Thus, ampicillin-class antibiotics should not be administered to patients with mononucleosis.

The possibility of superinfections with mycotic or bacterial pathogens should be kept in mind during therapy. If superinfections occur (usually involving *Pseudomonas* or *Candida*), the drug should be discontinued and/or appropriate therapy instituted.

Prescribing Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL in the absence of a proven or strongly suspected bacterial infection or a prophylactic indication is unlikely to provide benefit to the patient and increases the risk of the development of drug-resistant bacteria.

### **Information for the Patient:**

Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL should be taken every 12 hours with a meal or snack to reduce the possibility of gastrointestinal upset. If diarrhea develops and is severe or lasts more than 2 or 3 days, call your doctor.

Diarrhea is a common problem caused by antibiotics which usually ends when the antibiotic is discontinued. Sometimes after starting treatment with antibiotics, patients can develop watery and bloody stools (with or without stomach cramps and fever) even as late as 2 or more months after having taken the last dose of the antibiotic. If this occurs, patients should contact their physician as soon as possible.

Keep suspension refrigerated. Shake well before using. When dosing a child with the suspension (liquid) of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL, use a dosing spoon or medicine dropper. Be sure to rinse the spoon or dropper after each use. Bottles of suspension of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL may contain more liquid than required. Follow your doctor's instructions about the amount to use and the days of treatment your child requires. Discard any unused medicine.

Patients should be counseled that antibacterial drugs, including Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL, should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL is prescribed to treat a bacterial infection, patients should be told that although it is common to feel better early in the course of therapy, the medication should be taken exactly as directed. Skipping doses or not completing the full course of therapy may: (1) decrease the effectiveness of the immediate treatment, and (2) increase the likelihood that bacteria will develop resistance and will not be treatable by Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL or other antibacterial drugs in the future.

### **Phenylketonurics :**

Each 5 mL of the 600 mg/42.9 mg per 5 mL suspension of Amoxicillin and Clavulanate Potassium contains 7 mg phenylalanine.

### **Drug Interactions:**

Probenecid decreases the renal tubular secretion of amoxicillin. Concurrent use with Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL may result in increased and prolonged blood levels of amoxicillin. Co-administration of probenecid cannot be recommended.

Abnormal prolongation of prothrombin time (increased international normalized ratio [INR]) has been reported rarely in patients receiving amoxicillin and oral anticoagulants. Appropriate monitoring should be undertaken when anticoagulants are prescribed concurrently. Adjustments in the dose of oral anticoagulants may be necessary to maintain the desired level of anticoagulation.

The concurrent administration of allopurinol and ampicillin increases substantially the incidence of

rashes in patients receiving both drugs as compared to patients receiving ampicillin alone. It is not known whether this potentiation of ampicillin rashes is due to allopurinol or the hyperuricemia present in these patients. There are no data with Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL and allopurinol administered concurrently.

In common with other broad-spectrum antibiotics, amoxicillin/clavulanate may reduce the efficacy of oral contraceptives.

### **Drug/Laboratory Test Interactions:**

Oral administration of AMOXICILLIN AND CLAVULANATE POTASSIUM will result in high urine concentrations of amoxicillin. High urine concentrations of ampicillin may result in false-positive reactions when testing for the presence of glucose in urine using CLINITEST<sup>®</sup>, Benedict's Solution, or Fehling's Solution. Since this effect may also occur with amoxicillin and therefore Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL, it is recommended that glucose tests based on enzymatic glucose oxidase reactions (such as CLINISTIX<sup>®</sup>) be used.

Following administration of ampicillin to pregnant women, a transient decrease in plasma concentration of total conjugated estriol, estriol-glucuronide, conjugated estrone, and estradiol has been noted. This effect may also occur with amoxicillin and therefore Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL.

### **Carcinogenesis, Mutagenesis, Impairment of Fertility:**

Long-term studies in animals have not been performed to evaluate carcinogenic potential. The mutagenic potential of AMOXICILLIN AND CLAVULANATE POTASSIUM was investigated in vitro with an Ames test, a human lymphocyte cytogenetic assay, a yeast test, and a mouse lymphoma forward mutation assay, and in vivo with mouse micronucleus tests and a dominant lethal test. All were negative apart from the in vitro mouse lymphoma assay where weak activity was found at very high, cytotoxic concentrations. AMOXICILLIN AND CLAVULANATE POTASSIUM at oral doses of up to 1,200 mg/kg/day (5.7 times the maximum adult human dose based on body surface area) was found to have no effect on fertility and reproductive performance in rats, dosed with a 2:1 ratio formulation of amoxicillin:clavulanate.

### **Teratogenic Effects:**

Pregnancy (Category B). Reproduction studies performed in pregnant rats and mice given AMOXICILLIN AND CLAVULANATE POTASSIUM at oral dosages up to 1,200 mg/kg/day (4.9 and 2.8 times the maximum adult human oral dose based on body surface area, respectively), revealed no evidence of harm to the fetus due to AMOXICILLIN AND CLAVULANATE POTASSIUM. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

### **Labor and Delivery:**

Oral ampicillin-class antibiotics are generally poorly absorbed during labor. Studies in guinea pigs have shown that intravenous administration of ampicillin decreased the uterine tone, frequency of contractions, height of contractions, and duration of contractions. However, it is not known whether the use of AMOXICILLIN AND CLAVULANATE POTASSIUM in humans during labor or delivery has immediate or delayed adverse effects on the fetus, prolongs the duration of labor, or increases the likelihood that forceps delivery or other obstetrical intervention or resuscitation of the newborn will be necessary. In a single study in women with premature rupture of fetal membranes, it was reported that prophylactic treatment with AMOXICILLIN AND CLAVULANATE POTASSIUM may be associated with an increased risk of necrotizing enterocolitis in neonates.

### **Nursing Mothers:**



Ampicillin-class antibiotics are excreted in human milk; therefore, caution should be exercised when AMOXICILLIN AND CLAVULANATE POTASSIUM is administered to a nursing woman.

### **Pediatric Use:**

Safety and efficacy of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL in infants younger than 3 months have not been established. Safety and efficacy of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL have been demonstrated for treatment of acute otitis media in infants and children 3 months to 12 years (see Description of Clinical Studies).

The safety and effectiveness of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL have been established for the treatment of pediatric patients (3 months to 12 years) with acute bacterial sinusitis. This use is supported by evidence from adequate and well-controlled studies of AMOXICILLIN AND CLAVULANATE POTASSIUM Extended Release Tablets in adults with acute bacterial sinusitis, studies of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL in pediatric patients with acute otitis media, and by similar pharmacokinetics of amoxicillin and clavulanate in pediatric patients taking Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL (see CLINICAL PHARMACOLOGY) and adults taking AMOXICILLIN AND CLAVULANATE POTASSIUM Extended Release Tablets.

### **ADVERSE REACTIONS**

Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL is generally well tolerated. The majority of side effects observed in pediatric clinical trials of acute otitis media were either mild or moderate, and transient in nature; 4.4% of patients discontinued therapy because of drug-related side effects. The most commonly reported side effects with probable or suspected relationship to Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL were contact dermatitis, i.e., diaper rash (3.5%), diarrhea (2.9%), vomiting (2.2%), moniliasis (1.4%), and rash (1.1%). The most common adverse experiences leading to withdrawal that were of probable or suspected relationship to Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL were diarrhea (2.5%) and vomiting (1.4%).

The following adverse reactions have been reported for ampicillin-class antibiotics:

#### **Gastrointestinal:**

Diarrhea, nausea, vomiting, indigestion, gastritis, stomatitis, glossitis, black “hairy” tongue, mucocutaneous candidiasis, enterocolitis, and hemorrhagic/pseudomembranous colitis. Onset of pseudomembranous colitis symptoms may occur during or after antibiotic treatment. (See WARNINGS.)

#### **Hypersensitivity Reactions:**

Skin rashes, pruritus, urticaria, angioedema, serum sickness-like reactions (urticaria or skin rash accompanied by arthritis, arthralgia, myalgia, and frequently fever), erythema multiforme (rarely Stevens-Johnson syndrome), acute generalized exanthematous pustulosis, and an occasional case of exfoliative dermatitis (including toxic epidermal necrolysis) have been reported. These reactions may be controlled with antihistamines and, if necessary, systemic corticosteroids. Whenever such reactions occur, the drug should be discontinued, unless the opinion of the physician dictates otherwise. Serious and occasional fatal hypersensitivity (anaphylactic) reactions can occur with oral penicillin. (See WARNINGS.)

#### **Liver:**

A moderate rise in AST (SGOT) and/or ALT (SGPT) has been noted in patients treated with ampicillin-class antibiotics, but the significance of these findings is unknown. Hepatic dysfunction, including increases in serum transaminases (AST and/or ALT), serum bilirubin, and/or alkaline phosphatase, has been infrequently reported with AMOXICILLIN AND CLAVULANATE POTASSIUM. It has been

reported more commonly in the elderly, in males, or in patients on prolonged treatment. The histologic findings on liver biopsy have consisted of predominantly cholestatic, hepatocellular, or mixed cholestatic-hepatocellular changes. The onset of signs/symptoms of hepatic dysfunction may occur during or several weeks after therapy has been discontinued. The hepatic dysfunction, which may be severe, is usually reversible. On rare occasions, deaths have been reported (less than 1 death reported per estimated 4 million prescriptions worldwide). These have generally been cases associated with serious underlying diseases or concomitant medications.

### **Renal:**

Interstitial nephritis and hematuria have been reported rarely. Crystalluria has also been reported (see **OVERDOSAGE**).

### **Hemic and Lymphatic Systems:**

Anemia, including hemolytic anemia, thrombocytopenia, thrombocytopenic purpura, eosinophilia, leukopenia, and agranulocytosis have been reported during therapy with penicillins. These reactions are usually reversible on discontinuation of therapy and are believed to be hypersensitivity phenomena. A slight thrombocytosis was noted in less than 1% of the patients treated with AMOXICILLIN AND CLAVULANATE POTASSIUM. There have been reports of increased prothrombin time in patients receiving AMOXICILLIN AND CLAVULANATE POTASSIUM and anticoagulant therapy concomitantly.

### **Central Nervous System:**

Agitation, anxiety, behavioral changes, confusion, convulsions, dizziness, insomnia, and reversible hyperactivity have been reported rarely.

### **Miscellaneous:**

Tooth discoloration (brown, yellow, or gray staining) has been rarely reported. Most reports occurred in pediatric patients. Discoloration was reduced or eliminated with brushing or dental cleaning in most cases.

## **OVERDOSAGE**

Following overdose, patients have experienced primarily gastrointestinal symptoms including stomach and abdominal pain, vomiting, and diarrhea. Rash, hyperactivity, or drowsiness have also been observed in a small number of patients.

In the case of overdose, discontinue Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL, treat symptomatically, and institute supportive measures as required. If the overdose is very recent and there is no contraindication, an attempt at emesis or other means of removal of drug from the stomach may be performed. A prospective study of 51 pediatric patients at a poison control center suggested that overdoses of less than 250 mg/kg of amoxicillin are not associated with significant clinical symptoms and do not require gastric emptying.<sup>4</sup>

Interstitial nephritis resulting in oliguric renal failure has been reported in a small number of patients after overdose with amoxicillin.

Crystalluria, in some cases leading to renal failure, has also been reported after amoxicillin overdose in adult and pediatric patients. In case of overdose, adequate fluid intake and diuresis should be maintained to reduce the risk of amoxicillin crystalluria.

Renal impairment appears to be reversible with cessation of drug administration. High blood levels may occur more readily in patients with impaired renal function because of decreased renal clearance of both amoxicillin and clavulanate. Both amoxicillin and clavulanate are removed from the circulation by hemodialysis.

## DOSAGE AND ADMINISTRATION

**Amoxicillin and Clavulanate Potassium, 600 mg/42.9 mg per 5 mL, does not contain the same amount of clavulanic acid (as the potassium salt) as any of the other suspensions of AMOXICILLIN AND CLAVULANATE POTASSIUM. Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL contains 42.9 mg of clavulanic acid per 5 mL, whereas the 200 mg/5 mL suspension of AMOXICILLIN AND CLAVULANATE POTASSIUM contains 28.5 mg of clavulanic acid per 5 mL and the 400 mg/5 mL suspension contains 57 mg of clavulanic acid per 5 mL. Therefore, the 200 mg/28.5 mg/5 mL and 400 mg/57 mg/5 mL suspensions of AMOXICILLIN AND CLAVULANATE POTASSIUM should *not* be substituted for Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL as they are not interchangeable.**

### Dosage:

#### *Pediatric patients 3 months and older:*

Based on the amoxicillin component (600 mg/5 mL), the recommended dose of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL is 90 mg/kg/day divided every 12 hours, administered for 10 days (see chart below).

<b>Body Weight (kg)</b>	<b>Volume of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL providing 90 mg/kg/day</b>
8	3.0 mL twice daily
12	4.5 mL twice daily
16	6.0 mL twice daily
20	7.5 mL twice daily
24	9.0 mL twice daily
28	10.5 mL twice daily
32	12.0 mL twice daily
36	13.5 mL twice daily

#### *Pediatric patients weighing 40 kg and more:*

Experience with Amoxicillin and Clavulanate Potassium (600 mg/5 mL formulation) in this group is not available.

#### *Adults:*

Experience with Amoxicillin and Clavulanate Potassium (600 mg/5 mL formulation) in adults is not available and adults who have difficulty swallowing should not be given Amoxicillin and Clavulanate Potassium (600 mg/5 mL) in place of the 500-mg or 875-mg tablet of AMOXICILLIN AND CLAVULANATE POTASSIUM.

Hepatically impaired patients should be dosed with caution and hepatic function monitored at regular intervals. (See WARNINGS.)

#### *Directions for Mixing Oral Suspension:*

Prepare a suspension at time of dispensing as follows: Tap bottle until all the powder flows freely. Add approximately 2/3 of the total amount of water for reconstitution (see table below) and shake vigorously to suspend powder. Add remainder of the water and again shake vigorously.

## **Amoxicillin and Clavulanate**

## Potassium (600 mg/5 mL Suspension)

Amount of Water	
Bottle Size	Required for Reconstitution
75 mL	70 mL
125 mL	110 mL
200 mL	180 mL

Each teaspoonful (5 mL) will contain 600 mg amoxicillin as the trihydrate and 42.9 mg of clavulanic acid as the potassium salt.

**NOTE:** SHAKE ORAL SUSPENSION WELL BEFORE USING.

### Information for the Pharmacist:

For patients who wish to alter the taste of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL, immediately after reconstitution 1 drop of FLAVORx™ (apple, banana cream, bubble gum, cherry, or watermelon flavor) may be added for every 5 mL of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL. The resulting suspension is stable for 10 days under refrigeration. Stability of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL when mixed with other flavors distributed by FLAVORx has not been evaluated for flavors other than the 5 flavors listed above.

### Administration:

To minimize the potential for gastrointestinal intolerance, Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL should be taken at the start of a meal. Absorption of clavulanate potassium may be enhanced when Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL is administered at the start of a meal.

### HOW SUPPLIED

**Amoxicillin and Clavulanate Potassium, 600 mg/5 mL, for Oral Suspension:** Each 5 mL of reconstituted strawberry cream-flavored suspension contains 600 mg amoxicillin and 42.9 mg clavulanic acid as the potassium salt.

### HOW SUPPLIED

NDC 33261-0970-01 200 mL bottle

### STORAGE

Store reconstituted suspension under refrigeration. Discard unused suspension after 10 days. Store dry powder for oral suspension at or below 25°C (77°F). Dispense in original container.

### Description of Clinical Studies

Two clinical studies were conducted in pediatric patients with acute otitis media.

A non-comparative, open-label study assessed the bacteriologic and clinical efficacy of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL (90/6.4 mg/kg/day, divided every 12 hours) for 10 days in 521 pediatric patients (3 to 50 months) with acute otitis media. The primary objective was to assess bacteriological response in children with acute otitis media due to *S. pneumoniae* with amoxicillin/clavulanic acid MICs of 4 mcg/mL. The study sought the enrollment of patients with the following risk factors: Failure of antibiotic therapy for acute otitis media in the previous 3 months, history of recurrent episodes of acute otitis media, ≤ 2 years, or daycare attendance. Prior to receiving Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL, all patients had tympanocentesis to

obtain middle ear fluid for bacteriological evaluation. Patients from whom *S. pneumoniae* (alone or in combination with other bacteria) was isolated had a second tympanocentesis 4 to 6 days after the start of therapy. Clinical assessments were planned for all patients during treatment (4-6 days after starting therapy), as well as 2-4 days post-treatment and 15-18 days post-treatment. Bacteriological success was defined as the absence of the pretreatment pathogen from the on-therapy tympanocentesis specimen. Clinical success was defined as improvement or resolution of signs and symptoms. Clinical failure was defined as lack of improvement or worsening of signs and/or symptoms at any time following at least 72 hours of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL; patients who received an additional systemic antibacterial drug for otitis media after 3 days of therapy were considered clinical failures. Bacteriological eradication on therapy (day 4-6 visit) in the per protocol population is summarized in the following table:

**Table 5. Bacteriologic Eradication Rates in the Per Protocol Population**

Pathogen	Bacteriologic Eradication on Therapy		
	n/N	%	95% CI*
All <i>S. pneumoniae</i>	121/123	98.4	(94.3, 99.8)
<i>S. pneumoniae</i> with penicillin MIC = 2 mcg/mL	19/19	100	(82.4, 100.0)
<i>S. pneumoniae</i> with penicillin MIC = 4 mcg/mL	12/14	85.7	(57.2, 98.2)
<i>H. influenzae</i>	75/81	92.6	(84.6, 97.2)
<i>M. catarrhalis</i>	11/11	100	(71.5, 100.0)

\* CI = confidence intervals; 95% CIs are not adjusted for multiple comparisons.

Clinical assessments were made in the per protocol population 2-4 days post-therapy and 15-18 days post-therapy. Patients who responded to therapy 2-4 days post-therapy were followed for 15-18 days post-therapy to assess them for acute otitis media. Nonresponders at 2-4 days post-therapy were considered failures at the latter timepoint.

**Table 6. Clinical Assessments in the Per Protocol Population (Includes *S. pneumoniae* Patients With Penicillin MICs = 2 or 4 mcg/mL\*)**

Pathogen	2-4 Days Post-Therapy (Primary Endpoint)		
	n/N	%	95% CI†
All <i>S. pneumoniae</i>	122/137	89.1	(82.6, 93.7)
<i>S. pneumoniae</i> with penicillin MIC = 2 mcg/mL	17/20	85.0	(62.1, 96.8)
<i>S. pneumoniae</i> with penicillin MIC = 4 mcg/mL	11/14	78.6	(49.2, 95.3)
<i>H. influenzae</i>	141/162	87.0	(80.9, 91.8)
<i>M. catarrhalis</i>	22/26	84.6	(65.1, 95.6)
Pathogen	15-18 Days Post-Therapy‡ (Secondary Endpoint)		
	n/N	%	95% CI
All <i>S. pneumoniae</i>	95/136	69.9	(61.4, 77.4)
<i>S. pneumoniae</i> with penicillin MIC = 2 mcg/mL	11/20	55.0	(31.5, 76.9)
<i>S. pneumoniae</i> with penicillin MIC = 4 mcg/mL	5/14	35.7	(12.8, 64.9)
<i>H. influenzae</i>	106/156	67.9	(60.0, 75.2)

<i>M. catarrhalis</i>	14/25	56.0	(34.9, 75.6)
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\* *S. pneumoniae* strains with penicillin MICs of 2 or 4 mcg/mL are considered resistant to penicillin.

† CI = confidence intervals; 95% CIs are not adjusted for multiple comparisons.

‡ Clinical assessments at 15-18 days post-therapy may have been confounded by viral infections and new episodes of acute otitis media with time elapsed post-treatment.

In the intent-to-treat analysis, overall clinical outcomes at 2-4 days and 15-18 days post-treatment in patients with *S. pneumoniae* with penicillin MIC = 2 mcg/mL and 4 mcg/mL were 29/41 (71%) and 17/41 (41.5%), respectively.

In the intent-to-treat population of 521 patients, the most frequently reported adverse events were vomiting (6.9%), fever (6.1%), contact dermatitis (i.e., diaper rash) (6.1%), upper respiratory tract infection (4.0%), and diarrhea (3.8%). Protocol-defined diarrhea (i.e., 3 or more watery stools in one day or 2 watery stools per day for 2 consecutive days as recorded on diary cards) occurred in 12.9% of patients.

A double-blind, randomized, clinical study compared Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL (90/6.4 mg/kg/day, divided every 12 hours) to AMOXICILLIN AND CLAVULANATE POTASSIUM (45/6.4 mg/kg/day, divided every 12 hours) for 10 days in 450 pediatric patients (3 months to 12 years) with acute otitis media. The primary objective of the study was to compare the safety of Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL to AMOXICILLIN AND CLAVULANATE POTASSIUM. There was no statistically significant difference between treatments in the proportion of patients with 1 or more adverse events. The most frequently reported adverse events for Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL and the comparator of AMOXICILLIN AND CLAVULANATE POTASSIUM were coughing (11.9% versus 6.8%), vomiting (6.5% versus 7.7%), contact dermatitis (i.e., diaper rash, 6.0% versus 4.8%), fever (5.5% versus 3.9%), and upper respiratory infection (3.0% versus 9.2%), respectively. The frequencies of protocol-defined diarrhea with Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL (11.1%) and AMOXICILLIN AND CLAVULANATE POTASSIUM (9.4%) were similar (95% confidence interval on difference: -4.2% to 7.7%). Only 2 patients in the group treated with Amoxicillin and Clavulanate Potassium 600 mg/42.9 mg per 5 mL and 1 patient in the group treated with AMOXICILLIN AND CLAVULANATE POTASSIUM were withdrawn due to diarrhea.

## REFERENCES

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- Clinical and Laboratory Standards Institute (CLSI). Methods for Antimicrobial Susceptibility Testing of Anaerobic Bacteria – Approved Standard 7th ed. CLSI Document M11-A7. CLSI, 940 West Valley Rd., Suite 1400, Wayne, PA 19087, 2007.
- Clinical and Laboratory Standards Institute (CLSI). Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria That Grow Aerobically; Approved Standard – 8th ed. CLSI Document M07-A8. CLSI, 940 West Valley Rd., Suite 1400, Wayne, PA 19087, 2009.
- Clinical and Laboratory Standards Institute (CLSI). Performance Standards for Antimicrobial Disk Susceptibility Test; Approved Standard – 10th ed. CLSI Document M02-A10. CLSI, 940 West Valley Rd., Suite 1400, Wayne, PA 19087, 2009.
- Swanson-Biearman B, Dean BS, Lopez G, Krenzelo EP. The effects of penicillin and cephalosporin ingestions in children less than six years of age. *Vet Hum Toxicol* 1988;30:66-67.

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FLAVORx is a trademark of FLAVORx. Inc.

Mfd. by:

Dr. Reddy's Laboratories Inc.,

Bridgewater, NJ 08807

Repackaged By:

Aidarex Pharmaceuticals, LLC.

Corona, CA 92880

**Principal Display Panel**

**NDC 33261-0970-01**

**600 mg/42.9 mg per 5 mL**

**AMOXICILLIN/CLAVULANATE POTASSIUM**

***powder for oral suspension***

When reconstituted, each 5 mL contains:

**AMOXICILLIN, 600 MG,**

as the trihydrate

**CLAVULANIC ACID, 42.9 MG,**

as clavulanate potassium

200 mL (when reconstituted)

R<sub>x</sub> only

**Directions for mixing:**

1. Tap bottle until all powder flows freely. ADD 70 mL OF WATER IN TWO PARTS.
2. Add approximately 2/3 of the water for reconstitution. Shake vigorously.
3. Add remaining water; shake vigorously.

**Dosage:** Administer every 12 hours. See accompanying prescribing information.

**Phenylketonurics:** Contains phenylalanine 7 mg per 5 mL.

**Keep tightly closed.**

**Shake well before using.**

**Must be refrigerated.**

**Discard after 10 days.**

Use only if inner seal is intact.

**Net contents:** Equivalent to 9 g amoxicillin and 0.643 g clavulanic acid.

Store dry powder at room temperature.

Mfd. By: Dr. Reddy's Laboratories Inc.,

Bridgewater, NJ 08807

Repackaged By:

Aidarex Pharmaceuticals, LLC.

Corona, CA 92880

I1111

150035376

CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT. KEEP OUT OF REACH OF CHILDREN. STORE AT CONTROLLED ROOM TEMP 15-30C (59-86F)

Packaged By: **AIDAREX PHARMACEUTICALS LLC.**

**AMOX/CLAV/POT**

**600/42.9MG**

**200 ML**  
(WHEN RECONSTITUTED)

EACH 5ML CONTAINS THE FOLLOWING ACTIVE INGREDIENTS:  
AMOXICILLIN TRIHYDRATE.....600MG  
CLAVULANATE POTASSIUM.....42.9MG  
(WHEN RECONSTITUTED)

**SUSPENSION**

**RX**

GENERIC FOR: AUGMENTIN ES  
NDC: 33261-0970-01

TAKE \_\_\_ TBSP \_\_\_ TIMES DAILY  
TOME \_\_\_ TBSP \_\_\_ VECES AL DIA

MFG: DR. REDDY'S LABORATORIES INC., BRIDGEWATER, NJ 08807

AMOX/CLAV/POT 600/42.9MG  
NDC: 33261-0970-01  
RX 200 ML

AMOX/CLAV/POT 600/42.9MG  
NDC: 33261-0970-01  
RX 200 ML

AMOX/CLAV/POT 600/42.9MG  
NDC: 33261-0970-01  
RX 200 ML

AMOX/CLAV/POT 600/42.9MG  
NDC: 33261-0970-01  
RX 200 ML

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## AMOXICILLIN AND CLAVULANATE POTASSIUM

amoxicillin and clavulanate potassium powder, for suspension

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG LABEL	Item Code (Source)	NDC:33261- 970(NDC:43598-203)
Route of Administration	ORAL	DEA Schedule	

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
AMOXICILLIN (AMOXICILLIN ANHYDROUS)	AMOXICILLIN ANHYDROUS	600 mg in 5 mL
CLAVULANATE POTASSIUM (CLAVULANIC ACID)	CLAVULANIC ACID	42.9 mg in 5 mL

### Inactive Ingredients

Ingredient Name	Strength
SILICON DIOXIDE	
XANTHAN GUM	
ASPARTAME	
CARBOXYMETHYLCELLULOSE SODIUM	

### Product Characteristics

Color		Score	
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<b>Shape</b>		<b>Size</b>	
<b>Flavor</b>	STRAWBERRY	<b>Imprint Code</b>	
<b>Contains</b>			

**Packaging**

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:33261-970-01	200 mL in 1 BOTTLE, PLASTIC		

**Marketing Information**

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA050755	06/22/2001	

**Labeler** - Aidarex Pharmaceuticals LLC (801503249)

Revised: 3/2014

Aidarex Pharmaceuticals LLC