

**AMOXICILLIN AND CLAVULANATE POTASSIUM- amoxicillin and clavulanate potassium powder, for suspension**  
**Unit Dose Services**

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**HIGHLIGHTS OF PRESCRIBING INFORMATION**

**These highlights do not include all the information needed to use amoxicillin and clavulanate potassium for oral suspension USP safely and effectively. See full prescribing information for amoxicillin and clavulanate potassium for oral suspension USP.**

**AMOXICILLIN and CLAVULANATE POTASSIUM for oral suspension USP powder for oral suspension**  
**Initial U.S. Approval: 1984**

**To reduce the development of drug-resistant bacteria and maintain the effectiveness of amoxicillin and clavulanate potassium for oral suspension and other antibacterial drugs, amoxicillin and clavulanate potassium for oral suspension, should be used only to treat infections that are proven or strongly suspected to be caused by bacteria (1).**

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**INDICATIONS AND USAGE**

Amoxicillin and clavulanate potassium for oral suspension USP, 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 (1):

- antibacterial drug exposure for acute otitis media within the preceding 3 months, and either of the following: 1) age 2 years or younger 2) daycare attendance

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**DOSAGE AND ADMINISTRATION**

- Pediatric Patients less than 40 kg: 90 mg/kg/day divided every 12 hours, administered for 10 days. (2)

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**DOSAGE FORMS AND STRENGTHS**

600 mg/42.9 mg per 5 mL. (3)

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**CONTRAINDICATIONS**

- History of a serious hypersensitivity reaction (e.g., anaphylaxis or Stevens-Johnson syndrome) to amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL or to other beta-lactams (e.g., penicillins or cephalosporins). (4.1)
- History of cholestatic jaundice/hepatic dysfunction associated with amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL. (4.2)

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**WARNINGS AND PRECAUTIONS**

- Serious (including fatal) hypersensitivity reactions: Discontinue amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL if a reaction occurs. (5.1)
- Hepatic dysfunction and cholestatic jaundice: Discontinue if signs/symptoms of hepatitis occur. Monitor liver function tests in patients with hepatic impairment. (5.2)
- *Clostridium difficile*-associated diarrhea (CDAD): Evaluate patients if diarrhea occurs. (5.3)
- Patients with mononucleosis who receive amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL develop skin rash. Avoid amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL use in these patients. (5.4)

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**ADVERSE REACTIONS**

The most frequently reported adverse reactions were diaper rash (4%), diarrhea (3%), vomiting (2%), candidiasis (1%), and rash (1%). (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact TEVA USA, PHARMACOVIGILANCE at 1-866-832-8537 or drug.safety@tevapharm.com; or FDA at 1-800-FDA-1088 or <http://www.fda.gov/medwatch>.**

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## ----- DRUG INTERACTIONS -----

- Coadministration with probenecid is not recommended. (7.1)
- Concomitant use of amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL with oral anticoagulants may increase the prolongation of prothrombin time. (7.2)
- Coadministration with allopurinol increases the risk of rash. (7.3)
- Amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL may reduce efficacy of oral contraceptives. (7.4)

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## ----- USE IN SPECIFIC POPULATIONS -----

- Pediatric 3 months to 12 years old: Modify dose according to weight. (2.1, 8.4)
- Adults and pediatric patients weighing more than 40 kg: The safety and effectiveness of amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL has not been established. (8)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 10/2016

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## FULL PRESCRIBING INFORMATION

### 1 INDICATIONS AND USAGE

To reduce the development of drug-resistant bacteria and maintain the effectiveness of amoxicillin and clavulanate potassium for oral suspension USP and other antibacterial drugs, amoxicillin and clavulanate potassium for oral suspension USP should be used only to treat 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.

Amoxicillin and clavulanate potassium for oral suspension USP, 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:

- antibacterial drug exposure for acute otitis media within the preceding 3 months, and either of the following:
  - age 2 years or younger
  - daycare attendance

[see CLINICAL PHARMACOLOGY, Microbiology (12.4)]

**NOTE:** Acute otitis media due to *S. pneumoniae* alone can be treated with amoxicillin. Amoxicillin and clavulanate potassium for oral suspension USP, 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.

### 2 DOSAGE AND ADMINISTRATION

Amoxicillin and clavulanate potassium for oral suspension, 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 for oral suspension, 600 mg/42.9 mg per 5 mL contains 42.9 mg of clavulanic acid per 5 mL, whereas the amoxicillin and clavulanate potassium, 200 mg/28.5 mg per 5 mL suspension contains 28.5 mg of clavulanic acid per 5 mL and the 400 mg/57 mg per 5 mL suspension contains 57 mg of clavulanic acid per 5 mL. Therefore, the amoxicillin and clavulanate potassium 200 mg/28.5 mg per 5 mL and 400 mg/57 mg per 5 mL suspensions should not be substituted for amoxicillin and clavulanate potassium for oral suspension, 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 for oral suspension, 600 mg/42.9 mg per 5 mL is 90 mg/kg/day divided every 12 hours, administered for 10 days (see chart below). This dose provides 6.4 mg/kg/day of the clavulanic acid component.

Body Weight (kg)	Volume of Amoxicillin and Clavulanate Potassium for Oral Suspension, 600 mg/42.9 mg per 5 mL Powder for Oral Suspension providing 90 mg/kg/day
8	3 mL twice daily
12	4.5 mL twice daily
16	6 mL twice daily
20	7.5 mL twice daily
24	9 mL twice daily
28	10.5 mL twice daily
32	12 mL twice daily
36	13.5 mL twice daily

**Pediatric patients weighing 40 kg and more:** Experience with amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL in this group is not available.

**Adults:** Experience with amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL in adults is not available and adults who have difficulty swallowing should not be given amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL in place of the amoxicillin and clavulanate potassium 500 mg or 875 mg tablet.

Hepatically impaired patients should be dosed with caution and hepatic function monitored at regular intervals [see WARNINGS and PRECAUTIONS (5)].

**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 for Oral Suspension, 600 mg/42.9 mg per 5 mL Powder for Oral Suspension	
Bottle Size	Amount of Water Required for Reconstitution
75 mL	68 mL
125 mL	108 mL
200 mL	170 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 for oral suspension, 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 for oral suspension, 600 mg/42.9 mg per 5 mL. The resulting suspension is stable for 10 days under refrigeration. Stability of amoxicillin and clavulanate potassium for oral suspension, 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 five flavors listed above.

**Administration:** To minimize the potential for gastrointestinal intolerance, amoxicillin and clavulanate potassium for oral suspension, 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 for oral suspension, 600 mg/42.9 mg per 5 mL is administered at the start of a meal.

### 3 DOSAGE FORMS AND STRENGTHS

#### **Powder for Oral Suspension:**

• **600 mg/42.9 mg per 5 mL:** Each 5 mL of reconstituted orange-flavored suspension contains 600 mg amoxicillin trihydrate and 42.9 mg clavulanic acid as the potassium salt.

### 4 CONTRAINDICATIONS

#### **4.1 Serious Hypersensitivity Reactions**

Amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL is contraindicated in patients with a history of serious hypersensitivity reactions (e.g., anaphylaxis or Stevens-Johnson syndrome) to amoxicillin, clavulanate or to other beta-lactam antibacterial drugs (e.g., penicillins and cephalosporins).

#### **4.2 Cholestatic Jaundice/Hepatic Dysfunction**

Amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL is contraindicated in patients with a previous history of cholestatic jaundice/hepatic dysfunction associated with treatment with amoxicillin/clavulanate potassium.

### 5 WARNINGS AND PRECAUTIONS

#### **5.1 Serious Allergic Reactions, Including Anaphylaxis**

Serious and occasionally fatal hypersensitivity (anaphylactic) reactions have been reported in patients receiving amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL. These reactions are more likely to occur in individuals with a history of penicillin hypersensitivity and/or a history of sensitivity to multiple allergens.

Before initiating therapy with amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL, careful inquiry should be made regarding previous hypersensitivity reactions to penicillins, cephalosporins, or other allergens. If an allergic reaction occurs, discontinue amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL and institute appropriate therapy.

#### **5.2 Hepatic Dysfunction**

Use amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL with caution in patients with evidence of hepatic dysfunction. Hepatic toxicity associated with the use of amoxicillin/clavulanate potassium is usually reversible. Deaths have been reported (fewer than one death reported per estimated four million prescriptions worldwide). These have generally been cases associated with serious underlying diseases or concomitant medications [*see Contraindications (4.2) and Adverse Reactions (6.2)*].

#### **5.3 Clostridium difficile-Associated Diarrhea**

*Clostridium difficile* associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL, 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 antibacterial drug 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 antibacterial drug use not directed against *C. difficile* may need to be discontinued. Appropriate fluid and electrolyte management, protein supplementation, antibacterial treatment of *C. difficile*, and surgical evaluation should be instituted as clinically indicated.

#### **5.4 Skin Rash in Patients with Mononucleosis**

A high percentage of patients with mononucleosis who receive amoxicillin develop an erythematous skin rash. Thus, amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL should not be administered to patients with mononucleosis.

#### **5.5 Potential for Microbial Overgrowth**

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

#### **5.6 Phenylketonurics**

Amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL contains aspartame which contains phenylalanine. Each 5 mL of the amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL powder for oral suspension contains 1.4 mg phenylalanine.

#### **5.7 Development of Drug-Resistant Bacteria**

Prescribing amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL in the absence of a proven or strongly suspected bacterial infection is unlikely to provide benefit to the patient and increases the risk of the development of drug-resistant bacteria.

### **6 ADVERSE REACTIONS**

#### **6.1 Clinical Trial Experience**

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Two clinical trials evaluated the safety of a 10 day treatment course of amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL 90/6.4 mg/kg/day, divided every 12 hours, in pediatric patients with acute otitis media [see *Clinical Studies (14)*]. The first trial involved 521 pediatric patients (3 months to 50 months) and the second trial involved 450 pediatric patients (3 months to 12 years). In the intent-to-treat population of the first trial of 521 patients, the most frequently reported adverse events were vomiting (7%), fever (6%), contact dermatitis (i.e., diaper rash) (6%), upper respiratory tract infection (4%), and diarrhea (4%). 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 13% of patients. The primary objective of the second study was to compare the safety of amoxicillin and clavulanate potassium for oral suspension, 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 ten days. There was no statistically significant difference between treatments in the proportion of patients with 1 or more adverse events. The most frequently reported adverse reactions for amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL and the comparator of amoxicillin and clavulanate potassium were coughing (12% versus 7%), vomiting (7%

versus 8%), contact dermatitis (i.e., diaper rash, 6% versus 5%), fever (6% versus 4%), and upper respiratory infection (3% versus 9%), respectively. The frequencies of protocol-defined diarrhea with amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL (11%) and amoxicillin and clavulanate potassium (9%) were not statistically different. Two patients in the group treated with amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL and one patient in the group treated with amoxicillin and clavulanate potassium were withdrawn due to diarrhea.

## 6.2 Postmarketing Experience

In addition to adverse reactions reported from clinical trials, the following have been identified during postmarketing use of amoxicillin and clavulanate potassium products, including amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL. Because they are reported voluntarily from a population of unknown size, estimates of frequency cannot be made. These events have been chosen for inclusion due to a combination of their seriousness, frequency of reporting, or potential causal connection to amoxicillin and clavulanate potassium.

**Gastrointestinal:** Nausea, indigestion, gastritis, stomatitis, glossitis, black “hairy” tongue, mucocutaneous candidiasis, enterocolitis, and hemorrhagic/pseudomembranous colitis. Onset of pseudomembranous colitis symptoms may occur during or after antibacterial drug treatment.

**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, Stevens-Johnson syndrome, acute generalized exanthematous pustulosis, hypersensitivity vasculitis, and an occasional case of exfoliative dermatitis (including toxic epidermal necrolysis) have been reported [*see Warnings and Precautions (5.1)*].

**Liver:** A moderate rise in AST (SGOT) and/or ALT (SGPT) has been noted in patients treated with ampicillin-class antibacterial drugs. Hepatic dysfunction, including hepatitis and cholestatic jaundice, increases in serum transaminases (AST and/or ALT), serum bilirubin, and/or alkaline phosphatase, has been reported with amoxicillin and clavulanate potassium or amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL. 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 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. Deaths have been reported [*see Contraindications (4.2), Warnings and Precautions (5.2)*].

**Renal:** Interstitial nephritis, hematuria, and crystalluria have been reported [*see Overdosage (10)*].

**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. 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, headache, insomnia, and reversible hyperactivity have been reported.

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

## 7 DRUG INTERACTIONS

### 7.1 Probenecid

Probenecid decreases the renal tubular secretion of amoxicillin. Concurrent use with amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL may result in increased and prolonged blood levels of amoxicillin. Coadministration of probenecid is not recommended.

## 7.2 Oral Anticoagulants

Abnormal prolongation of prothrombin time (increased international normalized ratio [INRI]) has been reported 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.

## 7.3 Allopurinol

The concurrent administration of allopurinol and amoxicillin increases substantially the incidence of rashes in patients receiving both drugs as compared to patients receiving amoxicillin alone. It is not known whether this potentiation of amoxicillin rashes is due to allopurinol or the hyperuricemia present in these patients. There are no data with amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL and allopurinol administered concurrently.

## 7.4 Oral Contraceptives

Amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL may affect intestinal flora, leading to lower estrogen reabsorption and reduced efficacy of combined oral estrogen/progesterone contraceptives.

## 7.5 Effects on Laboratory Test

High urine concentrations of amoxicillin 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 clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL, it is recommended that glucose tests based on enzymatic glucose oxidase reactions be used.

Following administration of amoxicillin to pregnant women, a transient decrease in plasma concentration of total conjugated estriol, estriol-glucuronide, conjugated estrone, and estradiol has been noted.

# 8 USE IN SPECIFIC POPULATIONS

## 8.1 Pregnancy

Teratogenic Effects

Pregnancy Category B.

There are no adequate and well-controlled studies of amoxicillin and clavulanate potassium in pregnant women. Because animal reproduction studies are not always predictive of human response, use this drug during pregnancy only if clearly needed.

Reproduction studies performed in pregnant rats and mice given amoxicillin and clavulanate potassium (2:1 ratio formulation of amoxicillin:clavulanate) at oral doses up to 1200 mg/kg/day revealed no evidence of harm to the fetus due to amoxicillin and clavulanate potassium. The amoxicillin doses in rodents (based on body surface area and assuming a 20 kg child) were approximately 2 times (rats) or equal to (mice) the recommended clinical amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL dose of 90/6.4 mg/kg/day. For clavulanate, these dose multiples were approximately 15 times and 7.5 times the recommended daily dose of amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL.

## 8.2 Labor and Delivery

Oral ampicillin-class antibacterial drugs 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.

### **8.3 Nursing Mothers**

Ampicillin-class antibacterial drugs are excreted in human milk; therefore, caution should be exercised when amoxicillin and clavulanate potassium is administered to a nursing woman.

### **8.4 Pediatric Use**

Safety and efficacy of amoxicillin and clavulanate potassium for oral suspension, 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 for oral suspension, 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 (14)*].

The safety and effectiveness of amoxicillin and clavulanate potassium for oral suspension, 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 for oral suspension, 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 for oral suspension, 600 mg/42.9 mg per 5 [see *CLINICAL PHARMACOLOGY (12)*] and adults taking amoxicillin and clavulanate potassium extended-release tablets.

## **10 OVERDOSAGE**

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

In the case of overdosage, discontinue amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL, treat symptomatically, and institute supportive measures as required. If the overdosage 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 overdosages of less than 250 mg/kg of amoxicillin is not associated with significant clinical symptoms and does not require gastric emptying.<sup>4</sup>

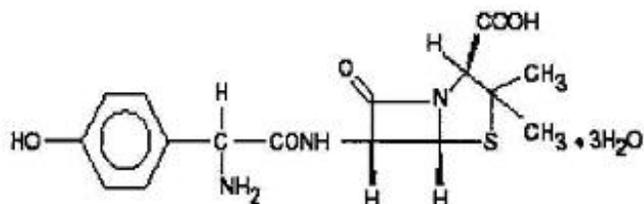
Interstitial nephritis resulting in oliguric renal failure has been reported in a small number of patients after overdosage with amoxicillin.

Crystalluria, in some cases leading to renal failure, has also been reported after amoxicillin overdosage in adult and pediatric patients. In case of overdosage, 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.

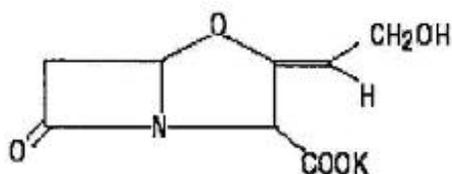
## 11 DESCRIPTION

Amoxicillin and clavulanate potassium for oral suspension USP is an oral antibacterial combination consisting of the semisynthetic antibacterial 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. Chemically, amoxicillin is (2*S*,5*R*,6*R*)-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:



$\text{C}_{16}\text{H}_{19}\text{N}_3\text{O}_5\text{S} \cdot 3\text{H}_2\text{O}$  M.W. 419.46

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. Chemically, clavulanate potassium is potassium (*Z*)-(2*R*,5*R*)-3-(2-hydroxyethylidene)-7-oxo-4-oxa-1-azabicyclo[3.2.0]-heptane-2-carboxylate and may be represented structurally as:



$\text{C}_8\text{H}_8\text{KNO}_5$  M.W. 237.25

**Inactive Ingredients:** Powder for oral suspension - aspartame\*, citric acid, colloidal silicon dioxide, mannitol, hypromellose, PB82 spray dried orange 739 flavor, sodium citrate, sodium saccharin, and xanthan gum [see *Warnings and Precautions* (5.6)].

Each 5 mL of reconstituted amoxicillin and clavulanate potassium for oral suspension USP, 600 mg/42.9 mg per 5 mL contains 600 mg amoxicillin as the trihydrate and 42.9 mg clavulanic acid as the potassium salt (clavulanate potassium). The potassium content per 5 mL is 0.23 mEq.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 ml is an antibacterial

drug [see Microbiology (12.4)].

### 12.3 Pharmacokinetics

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 for oral suspension, 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 ( $\pm$  SD) Plasma Amoxicillin and Clavulanate Pharmacokinetic Parameter Values Following Administration of 45 mg/kg of Amoxicillin and Clavulanate Potassium for Oral Suspension, 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 $\pm$ 7.7	1.7 $\pm$ 0.9
T <sub>max</sub> (hour)	2 (1 to 4)	1.1 (1 to 4)
AUC <sub>0-T</sub> (mcg <sup>1</sup> hour/mL)	59.8 $\pm$ 20	4 $\pm$ 1.9
T <sub>1/2</sub> (hour)	1.4 $\pm$ 0.3	1.1 $\pm$ 0.3
CL/F (L/hour/kg)	0.9 $\pm$ 0.4	1.1 $\pm$ 1.1

1. Arithmetic mean  $\pm$  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 for oral suspension, 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 amoxicillin and clavulanate potassium, 250 mg/62.5 mg per 5 mL suspension.

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

Neither component in amoxicillin and clavulanate potassium for oral suspension, 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 for oral suspension, 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 for Oral Suspension, 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 to 14 (n = 5)	0.2 to 5.5 (n = 4)
2 hour	mean	15.7	3.3
	median	13	2.4
	range	11 to 25	1.9 to 6

		(n = 7)	(n = 5)
3 hour	mean	13	5.8
	median	12	6.5
	range	5.5 to 21	3.9 to 7.4
		(n = 5)	(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.

## 12.4 Microbiology

### Mechanism of Action

Amoxicillin binds to penicillin-binding proteins within the bacterial cell wall and inhibits bacterial cell wall synthesis. Clavulanic acid is a beta-lactam, structurally related to penicillin, that may inactivate certain beta-lactamase enzymes.

### Mechanism of Resistance

Resistance to penicillins may be mediated by destruction of the beta-lactam ring by a beta-lactamase, altered affinity of penicillin for target, or decreased penetration of the antimicrobial drug to reach the target site. Amoxicillin alone is susceptible to degradation by beta-lactamases, and therefore its spectrum of activity does not include bacteria that produce these enzymes.

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 (1).

#### **Gram-positive bacteria:**

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

#### **Gram-negative bacteria:**

*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.

#### **Gram-positive bacteria:**

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

*Streptococcus 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 standard test method<sup>1,2</sup> (broth for *S. pneumoniae*

and *H. influenzae*). 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 antimicrobial compounds. The zone size should be determined using a standardized test method <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

S=Susceptible, I=Intermediate, R=Resistant

**NOTE:** Susceptibility of *S. pneumoniae* should be determined using a 1-mcg oxacillin disk.

**NOTE:** For nonmeningitis isolates, a penicillin MIC of ≤0.06 mcg/mL (or oxacillin zone ≥ 20 mm) can predict susceptibility to amoxicillin/clavulanic acid<sup>2</sup>.

**NOTE:** Beta-lactamase-negative, ampicillin-resistant (BLNAR) *H. influenzae* isolates should be considered resistant to amoxicillin/clavulanic acid despite apparent in vitro susceptibility of some BLNAR isolates to these agents.

A report of “Susceptible” (S) indicates that the antimicrobial drug is likely to inhibit growth of the microorganism if the antimicrobial drug reaches the concentration usually achievable at the site of infection. A report of “Intermediate” (I) 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 “Resistant” (R) indicates that the antimicrobial is not likely to inhibit growth of the pathogen if the antimicrobial drug reaches the concentration usually achievable at the infection site; other therapy should be selected.

**Quality Control:** Standardized susceptibility test procedures require the use of laboratory controls to monitor and ensure the accuracy and precision of supplies and reagents used in the assay, and the techniques of the individuals performing the test.<sup>1,3</sup> Standard amoxicillin/clavulanate potassium powder should provide the following range of MIC noted in Table 4. For the disk diffusion technique using the 30 mcg amoxicillin/clavulanate potassium disk, the criteria in Table 4 should be achieved.

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

Quality Control Organism	Minimum Inhibitory Concentration (mcg/mL)	Disk Diffusion (Zone Diameter Range in mm)
<i>Escherichia faecalis</i> ATCC®*29212	0.25/0.12 to 1/0.5	N/A

<i>Escherichia coli</i> ATCC® 25922	2/1 to 8/4	18 to 24
<i>Escherichia coli</i> ATCC® 35218 <sup>†,‡</sup>	4/2 to 16/8	17 to 22
<i>Haemophilus influenzae</i> ATCC 49247	2/1 to 16/8	15 to 23
<i>Staphylococcus aureus</i> ATCC® 25923	NA	28 to 36
<i>Staphylococcus aureus</i> ATCC® 29213	0.12/0.06 to 0.5/0.25	NA
<i>Streptococcus pneumoniae</i> ATCC 49619	0.03/0.015 to 0.12/0.06	NA

\* ATCC = American Type Culture Collection

† QC strain recommended when testing beta-lactam/beta-lactamase inhibitors<sup>2</sup>.

‡ This strain may lose its plasmid and develop susceptibility to beta-lactam antimicrobial agents after repeated transfers onto culture media. Minimize by removing new culture from storage at least monthly or whenever the strain begins to show decreased MICs to ampicillin, piperacillin, or ticarcillin<sup>2</sup>.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term studies in animals have not been performed to evaluate carcinogenic potential. Amoxicillin and clavulanate potassium (4:1 ratio formulation of amoxicillin:clavulanate) was non-mutagenic in the Ames bacterial mutation assay, and the yeast gene conversion assay. Amoxicillin and clavulanate potassium was weakly positive in the mouse lymphoma assay, but the trend toward increased mutation frequencies in this assay occurred at concentrations that were also associated with decreased cell survival. Amoxicillin and clavulanate potassium was negative in the mouse micronucleus test, and in the dominant lethal assay in mice. Potassium clavulanate alone was tested in the Ames bacterial mutation assay and in the mouse micronucleus test, and was negative in each of these assays.

Amoxicillin and clavulanate potassium (2:1 ratio formulation of amoxicillin:clavulanate) at oral doses of up to 1,200 mg/kg/day was found to have no effect on fertility and reproductive performance in rats. Based on body surface area (assuming a 20 kg child), this dose of amoxicillin is approximately 2 times the recommended clinical amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL dose of 90/6.4 mg/kg/day. For clavulanate, the dose multiple is approximately 15 times higher than the recommended clinical daily dose, also based on body surface area.

## 14 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 for oral suspension, 600 mg/42.9 mg per 5 mL (90 mg/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 antibacterial therapy for acute otitis media in the previous 3 months, history of recurrent episodes of acute otitis media, 2 years or younger, or daycare attendance. Prior to receiving amoxicillin and clavulanate potassium for oral suspension, 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 to 6 days after starting therapy), as well as 2 to 4 days post-treatment and 15

to 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 for oral suspension, 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 to 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	(94.3, 99.8)
<i>S. pneumoniae</i> with penicillin MIC = 2 mcg/mL	19/19	100	(82.4, 100)
<i>S. pneumoniae</i> with penicillin MIC = 4 mcg/mL	12/14	86	(57.2, 98.2)
<i>H. influenzae</i>	75/81	93	(84.6, 97.2)
<i>M. catarrhalis</i>	11/11	100	(71.5, 100)

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

Clinical assessments were made in the per protocol population 2 to 4 days post-therapy and 15 to 18 days post-therapy. Patients who responded to therapy 2 to 4 days post-therapy were followed for 15 to 18 days post-therapy to assess them for acute otitis media. Nonresponders at 2 to 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 mcg/mL or 4 mcg/mL<sup>1</sup>)**

Pathogen	2 to 4 Days Post-Therapy (Primary Endpoint)		
	Clinical Response		95% CI <sup>2</sup>
	n/N	%	
All <i>S. pneumoniae</i>	122/137	89	(82.6, 93.7)
<i>S. pneumoniae</i> with penicillin MIC = 2 mcg/mL	17/20	85	(62.1, 96.8)
<i>S. pneumoniae</i> with penicillin MIC = 4 mcg/mL	11/14	79	(49.2, 95.3)
<i>H. influenzae</i>	141/162	87	(80.9, 91.8)
<i>M. catarrhalis</i>	22/26	85	(65.1, 95.6)
Pathogen	15 to 18 Days Post-Therapy <sup>3</sup> (Secondary Endpoint)		
	Clinical Response		95% CI <sup>2</sup>
	n/N	%	
All <i>S. pneumoniae</i>	95/136	70	(61.4, 77.4)
<i>S. pneumoniae</i> with penicillin MIC = 2 mcg/mL	11/20	55	(31.5, 76.9)
<i>S. pneumoniae</i> with penicillin MIC = 4 mcg/mL	5/14	36	(12.8, 64.9)
<i>H. influenzae</i>	106/156	68	(60, 75.2)

<i>M. catarrhalis</i>	14/25	56	(34.9, 75.6)
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1. *S. pneumoniae* strains with penicillin MICs of 2 mcg/mL or 4 mcg/mL are considered resistant to penicillin.
2. CI = confidence intervals; 95% CIs are not adjusted for multiple comparisons.
3. Clinical assessments at 15 to 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 to 4 days and 15 to 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 (42%), respectively.

## 15 REFERENCES

1. Clinical and Laboratory Standards Institute (CLSI). *Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria that Grow Aerobically; Approved Standard -Ninth Edition*. CLSI document M07-A9, Clinical and Laboratory Standards Institute, 950 West Valley Road, Suite 2500, Wayne, Pennsylvania 19087, USA, 2012.
2. Clinical and Laboratory Standards Institute (CLSI). *Performance Standards for Antimicrobial Susceptibility Testing; Twenty-fourth Informational Supplement*, CLSI document M100-S24, Clinical and Laboratory Standards Institute, 950 West Valley Road, Suite 2500, Wayne, Pennsylvania 19087, USA, 2014.
3. Clinical and Laboratory Standards Institute (CLSI). *Performance Standards for Antimicrobial Disk Diffusion Susceptibility Tests; Approved Standard – Eleventh Edition*. CLSI document M02-A11, Clinical and Laboratory Standards Institute, 950 West Valley Road, Suite 2500, Wayne, Pennsylvania 19087, USA, 2012.
4. Swanson-Biearman B, Dean BS, Lopez G, Krenzelok EP. The effects of penicillin and cephalosporin ingestions in children less than six years of age. *Vet Hum Toxicol*. 1988;30:66-67.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

Product: 50436-8675

NDC: 50436-8675-1 125 mL in a BOTTLE

## 17 PATIENT COUNSELING INFORMATION

Take amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL 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.

Counsel patients that antibacterial drugs, including amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL, should only be used to treat bacterial infections. Antibacterial drugs do not treat viral infections (e.g., the common cold). When amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL is prescribed to treat a bacterial infection, tell patients 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 for oral suspension, 600 mg/42.9 mg per 5 mL or other antibacterial drugs in the future.

Counsel patients that diarrhea is a common problem caused by antibacterial drugs which usually ends

when the antibacterial drug is discontinued. Sometimes after starting treatment with antibacterial drugs, patient 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 antibacterial drug. 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 for oral suspension, 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 for oral suspension, 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.

Counsel patients that amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL contains a penicillin class drug product that can cause allergic reactions in some individuals.

Counsel patients with phenylketonuria: Each 5 mL of the 600 mg/42.9 mg per 5 mL suspension of amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL contains 1.4 mg phenylalanine.

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Manufactured In Canada By:

**TEVA CANADA LIMITED**

Toronto, Canada M1B 2K9

Manufactured For:

**TEVA PHARMACEUTICALS USA, INC.**

North Wales, PA 19454

Rev. H 3/2015

## Amoxicillin and Clavulanate Potassium

NDC: 50436-8675-1  
**AMOXICILLIN/CLAVULANATE  
POTASSIUM FOR ORAL SUSPENSION USP  
600MG/42.9MG/5mL 125mL**

When Reconstituted, Each 5 mL Contains:  
Amoxicillin, as The  
Trihydrate Clavulanic Acid, as  
clavulanate potassium Phenylketonurics:  
contains Phenylalanine  
1.4 mg per 5 mL.

WARNING: KEEP OUT OF  
REACH OF CHILDREN. STORE AT  
20-25°C (68-77°F) CONTROLLED  
ROOM TEMPERATURE. SEE PACKAGE  
INSERT FOR ADDITIONAL INFORMATION.

MFG BY: TEVA CANADA LTD  
TORONTO, CANADA M1B 2K9  
MFG NDC: 0093-8675-75  
MFG LOT: XXXXXXXX

LOT: XXXXX EXP: XXXXX

Pkg by: Unit Dose Services, LLC  
Dania, FL 33004 **RX ONLY**



NDC: 50436-8675-1 600MG/42.9MG/5mL 125mL  
DRUG: AMOXICILLIN/CLAVULANATE  
POTASSIUM FOR ORAL SUSPENSION USP  
LOT: XXXXX EXP: XXXXX

NDC: 50436-8675-1 600MG/42.9MG/5mL 125mL  
DRUG: AMOXICILLIN/CLAVULANATE  
POTASSIUM FOR ORAL SUSPENSION USP  
LOT: XXXXX EXP: XXXXX

NDC: 50436-8675-1 600MG/42.9MG/5mL 125mL  
DRUG: AMOXICILLIN/CLAVULANATE  
POTASSIUM FOR ORAL SUSPENSION USP  
LOT: XXXXX EXP: XXXXX

NDC: 50436-8675-1 600MG/42.9MG/5mL 125mL  
DRUG: AMOXICILLIN/CLAVULANATE  
POTASSIUM FOR ORAL SUSPENSION USP  
LOT: XXXXX EXP: XXXXX

## AMOXICILLIN AND CLAVULANATE POTASSIUM

amoxicillin and clavulanate potassium powder, for suspension

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:50436-8675(NDC:0093-8675)
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
AMOXICILLIN (UNII: 804826J2HU) (AMOXICILLIN ANHYDROUS - UNII:9EM05410Q9)	AMOXICILLIN ANHYDROUS	600 mg in 5 mL
CLAVULANATE POTASSIUM (UNII: Q420MW3AT8) (CLAVULANIC ACID - UNII:23521W1S24)	CLAVULANIC ACID	42.9 mg in 5 mL

### Inactive Ingredients

Ingredient Name	Strength
ASPARTAME (UNII: Z0H242BBR1)	
ANHYDROUS CITRIC ACID (UNII: XF417D3PSL)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MANNITOL (UNII: 3OWL53L36A)	
HYPROMELLOSE 2910 (5 MPAS) (UNII: R75537T0T4)	
ANHYDROUS TRISODIUM CITRATE (UNII: RS7A450LGA)	
SACCHARIN SODIUM (UNII: SB8ZUX40TY)	
XANTHAN GUM (UNII: TTV12P4NEE)	

### Product Characteristics

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

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:50436-8675-1	125 mL in 1 BOTTLE; Type 0: Not a Combination Product	09/01/2016	

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA065162	09/23/2004	

**Labeler** - Unit Dose Services (831995316)

### Establishment

Name	Address	ID/FEI	Business Operations
Unit Dose Services		831995316	REPACK(50436-8675) , RELABEL(50436-8675)

