

AMOXICILLIN AND CLAVULANATE POTASSIUM- amoxicillin and clavulanate potassium suspension
Hikma Pharmaceuticals USA Inc.

Amoxicillin and Clavulanate Potassium
for Oral Suspension USP, 600 mg/42.9 mg per 5 mL

Rev. 10/18
Rx Only

To reduce the development of drug-resistant bacteria and maintain effectiveness of amoxicillin and clavulanate potassium for oral suspension 600 mg/42.9 mg per 5 mL and other antibacterial drugs, amoxicillin and clavulanate potassium for oral suspension 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.

INDICATIONS AND USAGE

Amoxicillin and clavulanate potassium for oral suspension, 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 ≤ 2 mcg/mL), *H. influenzae* (including β -lactamase-producing strains), or *M. catarrhalis* (including β -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 ≤ 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 for oral suspension, 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 ≥ 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 ≤ 2 mcg/mL) and the β -lactamase-producing organisms listed above.

To reduce the development of drug-resistant bacteria and maintain the effectiveness of amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL and other antibacterial drugs, amoxicillin and clavulanate potassium for oral suspension, 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.

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 200 mg/28.5 mg per 5 mL suspension of amoxicillin and clavulanate potassium 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 200 mg/28.5 mg per 5 mL and 400 mg/57 mg per 5 mL suspensions of amoxicillin and clavulanate potassium 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).

Body Weight (kg)	Volume of Amoxicillin and Clavulanate Potassium for oral suspension, 600 mg/42.9 mg per 5 mL providing 90 mg/kg/day
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 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/125 mg or 875-mg/125 mg tablet.

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 for oral suspension, 600 mg/42.9 mg per 5 mL

Bottle Size	Amount of Water Required for Reconstitution
75 mL	66 mL
125 mL	110 mL
200 mL	176 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.

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 is administered at the start of a meal.

DOSAGE FORMS AND STRENGTHS

CONTRAINDICATIONS

Amoxicillin and clavulanate potassium for oral suspension, 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 FOR ORAL SUSPENSION, 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 FOR ORAL SUSPENSION, 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.**

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 antibiotic use. Careful medical history is necessary since CDAD has been reported to occur over two months after the administration of antibacterial agents.

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

Amoxicillin and clavulanate potassium for oral suspension, 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.**)

ADVERSE REACTIONS

Amoxicillin and clavulanate potassium for oral suspension, 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 for oral suspension, 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 for oral suspension, 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, hypersensitivity vasculitis, 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 hepatitis and cholestatic jaundice, (See CONTRAINDICATIONS.), increases in serum transaminases (AST and/or ALT), serum bilirubin, and/or alkaline phosphatase, has been infrequently reported with AUGMENTIN. 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.

To report SUSPECTED ADVERSE REACTIONS, contact West-ward Pharmaceutical Corp. at 1-877-233-2001, or the FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

USE IN SPECIFIC POPULATIONS

OVERDOSAGE

Following overdosage, 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 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 are not associated with significant clinical symptoms and do not require gastric emptying.⁴

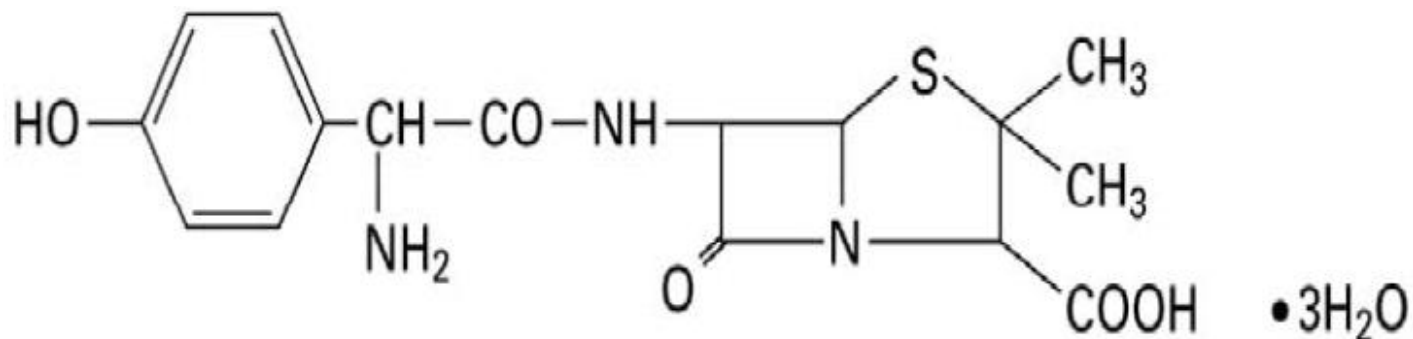
Interstitial nephritis resulting in oliguric renal failure has been reported in a small number of patients after overdosage with amoxicillin.

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.

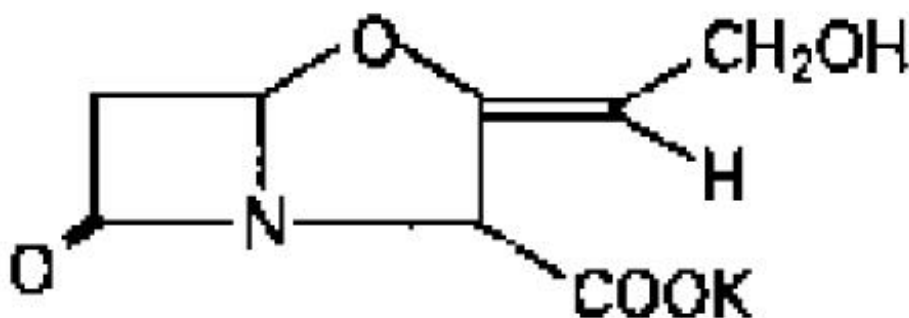
Renal impairment appears to be reversible with cessation of drug administration. High blood levels may occur more readily in patients with impaired renal function because of decreased renal clearance of both amoxicillin and clavulanate. Both amoxicillin and clavulanate are removed from the circulation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

DESCRIPTION

Amoxicillin and clavulanate potassium for oral suspension 600 mg/42.9 mg per 5 mL is an oral antibacterial combination consisting of the semisynthetic antibiotic amoxicillin and the β -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 (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:



Clavulanic acid is produced by the fermentation of *Streptomyces clavuligerus*. It is a β -lactam structurally related to the penicillins and possesses the ability to inactivate a wide variety of β -lactamases by blocking the active sites of these enzymes. Clavulanic acid is particularly active against the clinically important plasmid-mediated β -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— Aspartame, colloidal silicon dioxide, hypromellose, orange powder flavor, silicon dioxide, succinic acid, xanthan gum.

- See PRECAUTIONS—Information for the Patient/Phenylketonurics.

Each 5 mL of reconstituted suspension contains 600 mg amoxicillin as the trihydrate and 42.9 mg clavulanic acid as the potassium salt (clavulanate potassium).

Each 5 mL of reconstituted amoxicillin and clavulanate potassium for oral suspension 600 mg/42.9 mg per 5 mL contains 0.248 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 for oral suspension, 600 mg/42.9 mg per 5 mL suspension 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 600 mg/42.9 mg per 5 mL Every 12 Hours to Pediatric Patients

Parameter*	Amoxicillin	Clavulanate
C _{max} (mcg/mL)	15.7 ± 7.7	1.7 ± 0.9
T _{max} (hr)	2.0 (1.0 – 4.0)	1.1 (1.0 – 4.0)
AUC _{0-t} (mcg·hr/mL)	59.8 ± 20.0	4.0 ± 1.9
T _½ (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_{max} 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 250 mg/62.5 mg per 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 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 – 14 (n = 5)	0.2 – 5.5 (n = 4)
2 hour	mean	15.7	3.3
	median	13	2.4
	range	11.0 – 25 (n = 7)	1.9 – 6.0 (n = 5)
3 hour	mean	13	5.8
	median	12	6.5
	range	5.5 – 21 (n = 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 β -lactamases, and therefore, its spectrum of activity does not include organisms which produce these enzymes. Clavulanic acid is a β -lactam, structurally related to penicillin, which possesses the ability to inactivate a wide range of β -lactamase enzymes commonly found in microorganisms resistant to penicillins and cephalosporins. In particular, it has good activity against the clinically important plasmid-mediated β -lactamases frequently found responsible for transferred drug resistance.

The clavulanic acid component of amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL protects amoxicillin from degradation by β -lactamase enzymes and effectively extends the antibiotic spectrum of amoxicillin to include many bacteria normally resistant to amoxicillin and other β -lactam antibiotics. Thus, amoxicillin and clavulanate potassium for oral suspension, 600 mg/42.9 mg per 5 mL possesses the distinctive properties of a broad-spectrum antibiotic and a β -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 ≤ 2 mcg/mL)

Aerobic Gram-Negative Microorganisms:

Haemophilus influenzae (including β -lactamase-producing isolates)

Moraxella catarrhalis (including β -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 β -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 β -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.^{1,2} 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.^{2,3} 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>	≤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: β-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.¹⁻³ 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).

NONCLINICAL TOXICOLOGY

CLINICAL STUDIES

REFERENCES

1. National Committee for Clinical Laboratory Standards. Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria That Grow Aerobically – Sixth Edition; Approved Standard, NCCLS Document M7-A6, Vol. 23, No. 2, NCCLS, Wayne, PA, January 2003.
2. National Committee for Clinical Laboratory Standards for Antimicrobial Susceptibility Testing: Fourteenth Informational Supplement; Approved Standard, NCCLS Document 100-S14, Vol. 24, No. 1, NCCLS, Wayne, PA, January 2004.
3. National Committee for Clinical Laboratory Standards. Performance Standards for Antimicrobial Disk Susceptibility Tests – Eighth Edition; Approved Standard, NCCLS Document M2-A8, Vol. 23, No. 1, NCCLS, Wayne, PA, January 2003.
4. Swanson-Bearman 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.

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HOW SUPPLIED

Amoxicillin and clavulanate potassium for Oral Suspension USP 600 mg/42.9 mg per 5 mL: Each 5 mL of reconstituted orange-flavored suspension contains 600 mg amoxicillin and 42.9 mg clavulanic acid as the potassium salt.

NDC 0143-9853-75 - 75 mL bottle

NDC 0143-9853-16 - 125 mL bottle

NDC 0143-9853-24 - 200 mL bottle

PATIENT COUNSELING INFORMATION

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 for oral suspension, 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 for oral suspension, 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 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.

Patients should be counseled 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. 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 for oral suspension 600 mg/42.9 mg per 5 mL, or other antibacterial drugs in the future.

Phenylketonurics

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

Drug Interactions

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. Co-administration of probenecid cannot be recommended.

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 for oral suspension, 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[®], Benedict's Solution, or Fehling's Solution. Since this effect may also occur with amoxicillin and therefore 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 (such as CLINISTIX[®]) 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 for oral suspension, 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 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).

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 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 mL (see CLINICAL PHARMACOLOGY) and adults taking amoxicillin and clavulanate potassium Extended-Release Tablets 1000mg/62.5mg.

STORAGE

Store reconstituted suspension under refrigeration. Discard unused suspension after 10 days. Store dry powder for oral suspension at 20-25°C (68-77°F) [See USP Controlled Room Temperature]. 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 for oral suspension, 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 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 (4-6 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 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 4-6 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)
	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)

**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%), 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 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 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 for oral suspension, 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 for oral suspension, 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% 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 for oral suspension, 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 for oral suspension, 600 mg/42.9 mg per 5 mL and 1 patient in the group treated with amoxicillin and clavulanate potassium 600 mg/42.9 mg per 5 mL were withdrawn due to diarrhea.

Amoxicillin and Clavulanate Potassium for Oral Suspension USP
 600 mg/42.9 mg* per 5 mL
 75 mL (when reconstituted)

NDC # 0143-9853-75

**Amoxicillin and Clavulanate Potassium
for Oral Suspension USP**

Directions for mixing:

1. Tap bottle until all powder flows freely. ADD 66 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. **KEEP THIS AND ALL MEDICATIONS OUT OF THE REACH OF CHILDREN.**

Keep tightly closed. Shake well before using. Must be refrigerated. Discard after 10 days.

LXXV-4

600 mg/42.9 mg* per 5 mL

75 mL (when reconstituted)
Rx Only

*When reconstituted, each 5 mL contains:
AMOXICILLIN, 600 mg, as the trihydrate
CLAVULANIC ACID, 42.9 mg, as clavulanate potassium
 Phenylketonurics: Contains phenylalanine 7 mg per 5 mL.
 Potassium content 3.7 mEq.


Distributed by
West-ward Pharmaceutical Corp.
 Eatontown, NJ 07724

Use only if inner seal is intact
Net Contents: Equivalent to 9 g amoxicillin and 0.6435 g clavulanic acid.
 Store dry powder at 20°- 25°C (68°-77°F) [See USP Controlled Room Temperature].
 Manufactured by:
 HIKMA Pharmaceuticals
 P.O. Box 182400, Amman 11118 - Jordan
 2LAAMXU67-E-08/2010

3 0143-9853-75 6

Exp. Date:

Batch no.:



Amoxicillin and Clavulanate Potassium for Oral Suspension USP
 600 mg/42.9 mg* per 5 mL
 125 mL (when reconstituted)

NDC 0143-9853-16

**Amoxicillin and Clavulanate Potassium
for Oral Suspension USP**

600 mg/42.9 mg* per 5 mL

125 mL (when reconstituted)
Rx Only

*When reconstituted, each 5 mL contains:
AMOXICILLIN, 600 mg, as the trihydrate
CLAVULANIC ACID, 42.9 mg, as clavulanate potassium
Phenylketonurics: Contains phenylalanine 7 mg per 5 mL.
Potassium content 6.2 mEq.


Distributed by
West-ward Pharmaceutical Corp.
Eatontown, NJ 07724

Directions for mixing:
1. Tap bottle until all powder flows freely.
ADD 110 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.
KEEP THIS AND ALL MEDICATIONS OUT OF THE REACH OF CHILDREN.
Keep tightly closed.
Shake well before using.
Must be refrigerated.
Discard after 10 days.

CXXV-5

Use only if inner seal is intact.
Net Contents: Equivalent to 15 g amoxicillin and 1.0725 g clavulanic acid.
Store dry powder at 20°-25°C (68°-77°F) [See USP Controlled Room Temperature].
Manufactured by:
HIKMA Pharmaceuticals
P.O. Box 182400, Amman 11118 - Jordan
2LAAMXU61-E-08/2010



3 0143-9853-16 9
Exp. Date:
Batch no.:

Amoxicillin and Clavulanate Potassium for Oral Suspension USP
600 mg/42.9 mg* per 5 mL
200 mL (when reconstituted)

NDC # 0143-9853-24

**Amoxicillin and Clavulanate Potassium
for Oral Suspension USP**

600 mg/42.9 mg* per 5 mL

200 mL (when reconstituted)
Rx Only

*When reconstituted, each 5 mL contains:
AMOXICILLIN, 600 mg, as the trihydrate
CLAVULANIC ACID, 42.9 mg, as clavulanate potassium
Phenylketonurics: Contains phenylalanine 7 mg per 5 mL.
Potassium content 9.9 mEq.


Distributed by
West-ward Pharmaceutical Corp.
Eatontown, NJ 07724

Directions for mixing:
1. Tap bottle until all powder flows freely.
ADD 176 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.
KEEP THIS AND ALL MEDICATIONS OUT OF THE REACH OF CHILDREN.
Keep tightly closed.
Shake well before using.
Must be refrigerated.
Discard after 10 days.

CC-4

Use only if inner seal is intact.
Net Contents: Equivalent to 24 g amoxicillin and 1.716 g clavulanic acid.
Store dry powder at 20°-25°C (68°-77°F) [See USP Controlled Room Temperature].
Manufactured by:
HIKMA Pharmaceuticals
P.O. Box 182400, Amman 11118 - Jordan
2LAAMXU62-E-08/2010



3 0143-9853-24 4
Exp. Date:
Batch no.:

AMOXICILLIN AND CLAVULANATE POTASSIUM

amoxicillin and clavulanate potassium suspension

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0143-9853
Route of Administration	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)	
HYPROMELLOSES (UNII: 3NXW29V3WO)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
SUCCINIC ACID (UNII: AB6MNQ6J6L)	
XANTHAN GUM (UNII: TTV12P4NEE)	

Product Characteristics

Color		Score	
Shape		Size	
Flavor	ORANGE (orange)	Imprint Code	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0143-9853-75	75 mL in 1 BOTTLE; Type 0: Not a Combination Product	08/03/2009	
2	NDC:0143-9853-16	125 mL in 1 BOTTLE; Type 0: Not a Combination Product	08/03/2009	
3	NDC:0143-9853-24	200 mL in 1 BOTTLE; Type 0: Not a Combination Product	08/03/2009	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA065373	08/03/2009	

Labeler - Hikma Pharmaceuticals USA Inc. (001230762)

Establishment

Name	Address	ID/FEI	Business Operations
Al Hikma Pharmaceuticals		534662643	MANUFACTURE(0143-9853)

Revised: 2/2019

Hikma Pharmaceuticals USA Inc.