

**AMOXICILLIN AND CLAVULANATE POTASSIUM- amoxicillin and clavulanate potassium tablet, film coated**  
**Blenheim Pharmacal, Inc.**

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**HIGHLIGHTS OF PRESCRIBING INFORMATION**

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

**Amoxicillin and Clavulanate Potassium Tablets, USP**

**Initial U.S. Approval: 1984**

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

----- **INDICATIONS AND USAGE** -----

Amoxicillin and clavulanate potassium tablets, USP are a combination penicillin-class antibacterial and beta-lactamase inhibitor indicated for treatment of the following:

- Lower respiratory tract infections (1.1)
- Acute bacterial otitis media (1.2)
- Sinusitis (1.3)
- Skin and skin structure infections (1.4)
- Urinary tract infections (1.5)

----- **DOSAGE AND ADMINISTRATION** -----

- Adults and Pediatric Patients > 40 kg: 500 mg/125 mg or 875 mg/125 mg every 12 hours or 250 mg/125 mg or 500 mg/125 mg every 8 hours. (2.1, 2.2)
- Pediatric patients aged 12 weeks (3 months) and older: 25 to 45 mg/kg/day every 12 hours or 20 to 40 mg/kg/day every 8 hours, up to the adult dose. (2.2)
- Neonates and infants < 12 weeks of age: 30 mg/kg/day divided every 12 hours, based on the amoxicillin component. Use of the 125 mg/31.25 mg per 5 mL oral suspension is recommended. (2.2)

----- **DOSAGE FORMS AND STRENGTHS** -----

Tablets: 250 mg/125 mg, 500 mg/125 mg, 875 mg/125 mg; 875 mg/125 mg tablets are scored (3)

----- **CONTRAINDICATIONS** -----

- History of a serious hypersensitivity reaction (e.g., anaphylaxis or Stevens-Johnson syndrome) to amoxicillin and clavulanate potassium tablets or to other beta-lactams (e.g., penicillins or cephalosporins). (4)
- History of cholestatic jaundice/hepatic dysfunction associated with amoxicillin and clavulanate potassium tablets. (4)

----- **WARNINGS AND PRECAUTIONS** -----

- Serious (including fatal) hypersensitivity reactions: Discontinue amoxicillin and clavulanate potassium 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 develop skin rash. Avoid amoxicillin and clavulanate potassium use in these patients. (5.4)
- Overgrowth: The possibility of superinfections with fungal or bacterial pathogens should be considered during therapy. (5.5)

----- **ADVERSE REACTIONS** -----

The most frequently reported adverse effects were diarrhea/loose stools (9%), nausea (3%), skin rashes and urticaria (3%), vomiting (1%) and vaginitis (1%). (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Aurobindo Pharma USA, Inc. at 1-866-850-2876 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).

----- **DRUG INTERACTIONS** -----

- Co-administration with probenecid is not recommended. (7.1)
- Concomitant use of amoxicillin and clavulanate potassium and 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 may reduce efficacy of oral contraceptives. (7.4)

----- **USE IN SPECIFIC POPULATIONS** -----

- Pediatric Use: Modify dose in patients 12 weeks or younger. (8.4)
- Renal Impairment: Dosage adjustment is recommended for severe renal impairment (GFR < 30 mL/min). (2.3, 8.6)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

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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 tablets, USP and other antibacterial drugs, amoxicillin and clavulanate potassium tablets, 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 tablets, USP are a combination penicillin-class antibacterial and beta-lactamase inhibitor indicated in the treatment of infections due to susceptible isolates of the designated bacteria in the conditions listed below\*:

#### **1.1 Lower Respiratory Tract Infections**

caused by beta-lactamase-producing isolates of *Haemophilus influenzae* and *Moraxella catarrhalis*.

#### **1.2 Acute Bacterial Otitis Media**

caused by beta-lactamase-producing isolates of *H. influenzae* and *M. catarrhalis*.

#### **1.3 Sinusitis**

caused by beta-lactamase-producing isolates of *H. influenzae* and *M. catarrhalis*.

## 1.4 Skin and Skin Structure Infections

caused by beta-lactamase–producing isolates of *Staphylococcus aureus*, *Escherichia coli*, and *Klebsiella* species.

## 1.5 Urinary Tract Infections

caused by beta-lactamase–producing isolates of *E. coli*, *Klebsiella* species, and *Enterobacter* species.

## 1.6 Limitations of Use

When susceptibility test results show susceptibility to amoxicillin, indicating no beta-lactamase production, amoxicillin and clavulanate potassium tablets, USP should not be used.

## 2 DOSAGE AND ADMINISTRATION

Amoxicillin and clavulanate potassium tablets may be taken without regard to meals; however, absorption of clavulanate potassium is enhanced when amoxicillin and clavulanate potassium tablets are administered at the start of a meal. To minimize the potential for gastrointestinal intolerance, amoxicillin and clavulanate potassium tablets should be taken at the start of a meal.

### 2.1 Adults

The usual adult dose is one amoxicillin and clavulanate potassium tablet 500 mg/125 mg every 12 hours or one amoxicillin and clavulanate potassium tablet 250 mg/125 mg every 8 hours. For more severe infections and infections of the respiratory tract, the dose should be one amoxicillin and clavulanate potassium tablet 875 mg/125 mg every 12 hours or one amoxicillin and clavulanate potassium tablet 500 mg/125 mg every 8 hours. Adults who have difficulty swallowing may be given the 125 mg/31.25 mg per 5 mL or 250 mg/62.5 mg per 5 mL suspension in place of the 500 mg/125 mg tablet. The 200 mg/28.5 mg per 5 mL suspension or the 400 mg/57 mg per 5 mL suspension may be used in place of the 875 mg/125 mg tablet.

Two amoxicillin and clavulanate potassium tablets 250 mg/125 mg should *not* be substituted for one amoxicillin and clavulanate potassium tablet 500 mg/125 mg. Since both the amoxicillin and clavulanate potassium tablets 250 mg/125 mg and 500 mg/125 mg contain the same amount of clavulanic acid (125 mg, as the potassium salt), two 250 mg/125 mg tablets are not equivalent to one amoxicillin and clavulanate potassium tablet 500 mg/125 mg.

The amoxicillin and clavulanate potassium tablet 250 mg/125 mg and the 250 mg/62.5 mg chewable tablet should *not* be substituted for each other, as they are not interchangeable. The amoxicillin and clavulanate potassium tablet 250 mg/125 mg and the 250 mg/62.5 mg chewable tablet do not contain the same amount of clavulanic acid (as the potassium salt). The amoxicillin and clavulanate potassium tablet 250 mg/125 mg contains 125 mg of clavulanic acid, whereas the 250 mg/62.5 mg chewable tablet contains 62.5 mg of clavulanic acid.

### 2.2 Pediatric Patients

Based on the amoxicillin component, amoxicillin and clavulanate potassium tablets should be dosed as follows:

Neonates and Infants Aged <12 weeks (<3 months): The recommended dose of amoxicillin and clavulanate potassium tablets is 30 mg/kg/day divided every 12 hours, based on the amoxicillin component. Experience with the 200 mg/28.5 mg per 5 mL formulation in this age group is limited, and thus, use of the 125 mg/31.25 mg per 5 mL oral suspension is recommended.

Patients Aged 12 weeks (3 months) and Older: See dosing regimens provided in Table 1. The every 12 hour regimen is recommended as it is associated with significantly less diarrhea [see *Clinical Studies (14.2)*]. However, the every 12 hour suspension (200 mg/28.5 mg per 5 mL and 400 mg/57 mg per 5 mL) and chewable tablets (200 mg/28.5 mg and 400 mg/57 mg) contain aspartame and should not be used by phenylketonurics .

**Table 1: Dosing in Patients Aged 12 weeks (3 months) and Older**

INFECTION	DOSING REGIMEN	
	Every 12 hours	Every 8 hours
	200 mg/28.5 mg per 5 mL or 400 mg/57 mg per 5 mL oral suspension <sup>a</sup>	125 mg/31.25 mg per 5 mL or 250 mg/62.5 mg per 5 mL oral suspension <sup>a</sup>
Otitis media <sup>b</sup> , sinusitis, lower respiratory tract infections, and more severe infections	45 mg/kg/day every 12 hours	40 mg/kg/day every 8 hours
Less severe infections	25 mg/kg/day every 12 hours	20 mg/kg/day every 8 hours

<sup>a</sup> Each strength of suspension of amoxicillin and clavulanate potassium is available as a chewable tablet for use by older children.

<sup>b</sup> Duration of therapy studied and recommended for acute otitis media is 10 days.

Patients Weighing 40 kg or More: Pediatric patients weighing 40 kg or more should be dosed according to adult recommendations.

The amoxicillin and clavulanate potassium tablet 250 mg/125 mg should *not* be used until the child weighs at least 40 kg, due to the different amoxicillin to clavulanic acid ratios in the amoxicillin and clavulanate potassium tablet 250 mg/125 mg versus the amoxicillin and clavulanate potassium chewable tablet 250 mg/62.5 mg.

### 2.3 Patients with Renal Impairment

Patients with impaired renal function do not generally require a reduction in dose unless the impairment is severe. Renal impairment patients with a glomerular filtration rate of <30 mL/min should not receive the amoxicillin and clavulanate potassium tablets 875 mg/125 mg dose. Patients with a glomerular filtration rate of 10 to 30 mL/min should receive amoxicillin and clavulanate potassium tablets 500 mg/125 mg or 250 mg/125 mg every 12 hours, depending on the severity of the infection. Patients with a glomerular filtration rate less than 10 mL/min should receive amoxicillin and clavulanate potassium tablets 500 mg/125 mg or 250 mg/125 mg every 24 hours, depending on severity of the infection.

Hemodialysis patients should receive amoxicillin and clavulanate potassium tablets 500 mg/125 mg or 250 mg/125 mg every 24 hours, depending on severity of the infection. They should receive an additional dose both during and at the end of dialysis.

## 3 DOSAGE FORMS AND STRENGTHS

- **250 mg/125 mg:** White to off-white, oval shaped, film-coated tablets, debossed with 'A' on one side and '63' on the other side.
- **500 mg/125 mg:** White to off-white, oval shaped, film-coated tablets, debossed with 'X' on one side and '33' on the other side.
- **875 mg/125 mg:** White to off-white, capsule shaped, film-coated tablets, debossed with 'X' on one side and score line in between 3 and 2 on the other side

The amoxicillin and clavulanate potassium tablet 250 mg/125 mg and the 250 mg/62.5 mg chewable tablet should NOT be substituted for each other, as they are not interchangeable and the 250 mg/125 mg tablet should not be used in children weighing less than 40 kg. The amoxicillin and clavulanate potassium tablet 250 mg/125 mg and the 250 mg/62.5 mg chewable tablet do not contain the same amount of clavulanic acid. The amoxicillin and clavulanate potassium tablet 250 mg/125 mg contains 125 mg of clavulanic acid whereas the 250 mg/62.5 mg chewable tablet contains 62.5 mg of clavulanic acid.

Two amoxicillin and clavulanate potassium tablets 250 mg/125 mg should NOT be substituted for one amoxicillin and clavulanate potassium tablet 500 mg/125 mg. Since both the amoxicillin and clavulanate potassium tablets 250 mg/125 mg and 500 mg/125 mg contain the same amount of clavulanic acid (125 mg, as the potassium salt), two amoxicillin and clavulanate potassium tablets 250 mg/125 mg are not equivalent to one amoxicillin and clavulanate potassium tablet 500 mg/125 mg.

## **4 CONTRAINDICATIONS**

### **4.1 Serious Hypersensitivity Reactions**

Amoxicillin and clavulanate potassium tablets are 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 tablets are contraindicated in patients with a previous history of cholestatic jaundice/hepatic dysfunction associated with amoxicillin and clavulanate potassium tablets.

## **5 WARNINGS AND PRECAUTIONS**

### **5.1 Hypersensitivity Reactions**

Serious and occasionally fatal hypersensitivity (anaphylactic) reactions have been reported in patients receiving beta-lactam antibacterials, including amoxicillin and clavulanate potassium. 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, careful inquiry should be made regarding previous hypersensitivity reactions to penicillins, cephalosporins, or other allergens. If an allergic reaction occurs, amoxicillin and clavulanate potassium should be discontinued and appropriate therapy instituted.

### **5.2 Hepatic Dysfunction**

Hepatic dysfunction, including hepatitis and cholestatic jaundice has been associated with the use of amoxicillin and clavulanate potassium. Hepatic toxicity is usually reversible; however, deaths have been reported. Hepatic function should be monitored at regular intervals in patients with hepatic

impairment.

### **5.3 Clostridium difficile-Associated Diarrhea (CDAD)**

*Clostridium difficile* associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including amoxicillin and clavulanate potassium, 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 use. Careful medical history is necessary since CDAD has been reported to occur over 2 months after the administration of antibacterial agents.

If CDAD is suspected or confirmed, ongoing antibacterial 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 should not be administered to patients with mononucleosis.

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

The possibility of superinfections with fungal or bacterial pathogens should be considered during therapy. If superinfection occurs, amoxicillin and clavulanate potassium should be discontinued and appropriate therapy instituted.

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

Prescribing amoxicillin and clavulanate potassium 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**

The following are discussed in more detail in other sections of the labeling:

- Anaphylactic reactions [see Warnings and Precautions (5.1)]
- Hepatic Dysfunction [see Warnings and Precautions (5.2)]
- CDAD [see Warnings and Precautions (5.3)]

### **6.1 Clinical Trials 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.

The most frequently reported adverse reactions were diarrhea/loose stools (9%), nausea (3%), skin rashes and urticaria (3%), vomiting (1%) and vaginitis (1%). Less than 3% of patients discontinued therapy because of drug-related adverse reactions. The overall incidence of adverse reactions, and in particular diarrhea, increased with the higher recommended dose. Other less frequently reported adverse reactions (<1%) include: Abdominal discomfort, flatulence, and headache.

In pediatric patients (aged 2 months to 12 years), 1 U.S./Canadian clinical trial was conducted which compared 45/6.4 mg/kg/day (divided every 12 hours) of amoxicillin and clavulanate potassium for 10 days versus 40/10 mg/kg/day (divided every 8 hours) of amoxicillin and clavulanate potassium for 10 days in the treatment of acute otitis media. A total of 575 patients were enrolled, and only the suspension formulations were used in this trial. Overall, the adverse reactions seen were comparable to that noted above; however, there were differences in the rates of diarrhea, skin rashes/urticaria, and diaper area rashes [see *Clinical Studies (14.2)*].

## 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. 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:** 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 and Precautions (5.3)*].

**Hypersensitivity Reactions:** Pruritus, 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 cases of exfoliative dermatitis (including toxic epidermal necrolysis) have been reported [see *Warnings and Precautions (5.1)*].

**Liver:** 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. 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. 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. These reactions are usually reversible on discontinuation of therapy and are believed to be hypersensitivity phenomena. 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 [see *Drug Interactions (7.2)*].

**Central Nervous System:** Agitation, anxiety, behavioral changes, confusion, convulsions, dizziness,

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 but does not delay renal excretion of clavulanic acid. Concurrent use with amoxicillin and clavulanate potassium may result in increased and prolonged blood concentrations of amoxicillin. Coadministration of probenecid is not recommended.

### **7.2 Oral Anticoagulants**

Abnormal prolongation of prothrombin time (increased international normalized ratio [INR]) has been reported in patients receiving amoxicillin and oral anticoagulants. Appropriate monitoring should be undertaken when anticoagulants are prescribed concurrently with amoxicillin and clavulanate potassium. 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 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.

### **7.4 Oral Contraceptives**

Amoxicillin and clavulanate potassium may affect intestinal flora, leading to lower estrogen reabsorption and reduced efficacy of combined oral estrogen/progesterone contraceptives.

### **7.5 Effects on Laboratory Tests**

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, 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. 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 rats and mice (based on body surface area) were approximately 4 and 2 times the maximum recommended adult human oral dose (875 mg every 12 hours). For clavulanate, these dose multiples were approximately 9 and 4 times the maximum recommended adult human oral dose (125 mg every 8 hours). 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.

## **8.2 Labor and Delivery**

Oral ampicillin-class antibiotics are poorly absorbed during labor. It is not known whether 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 of the necessity for an obstetrical intervention.

## **8.3 Nursing Mothers**

Amoxicillin has been shown to be excreted in human milk. Amoxicillin and clavulanate potassium use by nursing mothers may lead to sensitization of infants. Caution should be exercised when amoxicillin and clavulanate potassium is administered to a nursing woman.

## **8.4 Pediatric Use**

The safety and effectiveness of amoxicillin and clavulanate potassium powder for oral suspension and chewable tablets have been established in pediatric patients. Use of amoxicillin and clavulanate potassium tablets in pediatric patients is supported by evidence from studies of amoxicillin and clavulanate potassium tablets in adults with additional data from a study of amoxicillin and clavulanate potassium powder for oral suspension in pediatric patients aged 2 months to 12 years with acute otitis media [see *Clinical Studies (14.2)*].

Because of incompletely developed renal function in neonates and young infants, the elimination of amoxicillin may be delayed; clavulanate elimination is unaltered in this age group. Dosing of amoxicillin and clavulanate potassium should be modified in pediatric patients aged <12 weeks (<3 months) [see *Dosage and Administration (2.2)*].

## **8.5 Geriatric Use**

Of the 3,119 patients in an analysis of clinical studies of amoxicillin and clavulanate potassium, 32% were ≥65 years old, and 14% were ≥75 years old. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

This drug is known to be substantially excreted by the kidney, and the risk of adverse reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function.

## **8.6 Dosing in Renal Impairment**

Amoxicillin is primarily eliminated by the kidney and dosage adjustment is usually required in patients with severe renal impairment (GFR <30 mL/min). See Patients with Renal Impairment (2.3) for specific

recommendations in patients with renal impairment.

## 10 OVERDOSAGE

In case of overdosage, discontinue medication, treat symptomatically, and institute supportive measures as required. 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<sup>1</sup>.

Interstitial nephritis resulting in oliguric renal failure has been reported in patients after overdosage with amoxicillin and clavulanate potassium.

Crystalluria, in some cases leading to renal failure, has also been reported after amoxicillin and clavulanate potassium overdosage in adult and pediatric patients. In case of overdosage, adequate fluid intake and diuresis should be maintained to reduce the risk of amoxicillin and clavulanate potassium 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 amoxicillin and clavulanate potassium. Amoxicillin and clavulanate potassium may be removed from circulation by hemodialysis [see *Dosage and Administration (2.3)*].

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Amoxicillin and clavulanate potassium is an antibacterial drug [see *Microbiology (12.4)*].

### 12.3 Pharmacokinetics

Mean amoxicillin and clavulanate potassium pharmacokinetic parameters in normal adults following administration of amoxicillin and clavulanate potassium tablets are shown in Table 3 and following administration of amoxicillin and clavulanate potassium powder for oral suspension and chewable tablets are shown in Table 4.

**Table 3: Mean ( $\pm$ S.D.) Amoxicillin and Clavulanate Potassium Pharmacokinetic Parameters<sup>a,b</sup> with Amoxicillin and Clavulanate Potassium Tablets**

Dose and Regimen	C <sub>max</sub> (mcg/mL)		AUC <sub>0-24</sub> (mcg*h/mL)	
	Amoxicillin	Clavulanate Potassium	Amoxicillin	Clavulanate Potassium
250 mg/125 mg every 8 hours	3.3 $\pm$ 1.12	1.5 $\pm$ 0.7	26.7 $\pm$ 4.56	12.6 $\pm$ 3.25
500 mg/125 mg every 12 hours	6.5 $\pm$ 1.41	1.8 $\pm$ 0.61	33.4 $\pm$ 6.76	8.6 $\pm$ 1.95
500 mg/125 mg every 8 hours	7.2 $\pm$ 2.26	2.4 $\pm$ 0.83	53.4 $\pm$ 8.87	15.7 $\pm$ 3.86
875 mg/125 mg every 12 hours	11.6 $\pm$ 2.78	2.2 $\pm$ 0.99	53.5 $\pm$ 12.31	10.2 $\pm$ 3.04

<sup>a</sup> Mean ( $\pm$  standard deviation) values of 14 normal adults (N=15 for clavulanate potassium in the low-dose regimens). Peak concentrations occurred approximately 1.5 hours after the dose.

<sup>b</sup> Amoxicillin and clavulanate potassium administered at the start of a light meal.

**Table 4: Mean ( $\pm$ S.D.) Amoxicillin and Clavulanate Potassium Pharmacokinetic Parameters <sup>a,b</sup> with Amoxicillin and Clavulanate Potassium Powder for Oral Suspension and Chewable Tablets**

Dose	C <sub>max</sub> (mcg/mL)		AUC <sub>0-24</sub> (mcg*h/mL)	
	Amoxicillin	Clavulanate Potassium	Amoxicillin	Clavulanate Potassium
400 mg/57 mg (5 mL of suspension)	6.94 $\pm$ 1.24	1.1 $\pm$ 0.42	17.29 $\pm$ 2.28	2.34 $\pm$ 0.94
400 mg /57 mg (1 chewable tablet)	6.67 $\pm$ 1.37	1.03 $\pm$ 0.33	17.24 $\pm$ 2.64	2.17 $\pm$ 0.73

<sup>a</sup> Mean ( $\pm$  standard deviation) values of 28 normal adults. Peak concentrations occurred approximately 1 hour after the dose.

<sup>b</sup> Amoxicillin and clavulanate potassium administered at the start of a light meal.

Oral administration of 5 mL of amoxicillin and clavulanate potassium 250 mg/62.5 mg per 5 mL suspension or the equivalent dose of 10 mL of amoxicillin and clavulanate potassium 125 mg/31.25 mg per 5 mL suspension provides average peak serum concentrations approximately 1 hour after dosing of 6.9 mcg/mL for amoxicillin and 1.6 mcg/mL for clavulanic acid. The areas under the serum concentration curves obtained during the first 4 hours after dosing were 12.6 mcg\*hr/mL for amoxicillin and 2.9 mcg\*hr/mL for clavulanic acid when 5 mL of amoxicillin and clavulanate potassium 250 mg/62.5 mg per 5 mL suspension or equivalent dose of 10 mL of amoxicillin and clavulanate potassium 125 mg/31.25 mg per 5 mL suspension were administered to normal adults. One amoxicillin and clavulanate potassium 250 mg/62.5 mg chewable tablet or two amoxicillin and clavulanate potassium 125 mg/31.25 mg chewable tablets are equivalent to 5 mL of amoxicillin and clavulanate potassium 250 mg/62.5 mg per 5 mL suspension and provide similar serum concentrations of amoxicillin and clavulanic acid.

Amoxicillin serum concentrations achieved with amoxicillin and clavulanate potassium are similar to those produced by the oral administration of equivalent doses of amoxicillin alone. Time above the minimum inhibitory concentration of 1 mcg/mL for amoxicillin has been shown to be similar after corresponding every 12 hour and every 8 hour dosing regimens of amoxicillin and clavulanate potassium in adults and children.

Absorption: Dosing in the fasted or fed state has minimal effect on the pharmacokinetics of amoxicillin. While amoxicillin and clavulanate potassium can be given without regard to meals, absorption of clavulanate potassium when taken with food is greater relative to the fasted state. In one study, the relative bioavailability of clavulanate was reduced when amoxicillin and clavulanate potassium was dosed at 30 and 150 minutes after the start of a high-fat breakfast.

Distribution: Neither component in amoxicillin and clavulanate potassium is highly protein-bound; clavulanic acid is approximately 25% bound to human serum and amoxicillin approximately 18% bound.

Amoxicillin diffuses readily into most body tissues and fluids with the exception of the brain and spinal fluid.

Two hours after oral administration of a single 35 mg/kg dose of suspension of amoxicillin and clavulanate potassium to fasting children, average concentrations of 3 mcg/mL of amoxicillin and 0.5 mcg/mL of clavulanic acid were detected in middle ear effusions.

Metabolism and Excretion: The half-life of amoxicillin after the oral administration of amoxicillin and clavulanate potassium is 1.3 hours and that of clavulanic acid is 1 hour.

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 a single amoxicillin and clavulanate potassium tablet 250 mg/125 mg or 500 mg/125 mg.

## 12.4 Microbiology

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

The formulation of amoxicillin and clavulanic acid in amoxicillin and clavulanate potassium protects amoxicillin from degradation by some beta-lactamase enzymes and extends the antibiotic spectrum of amoxicillin to include many bacteria normally resistant to amoxicillin.

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

### Gram-positive Bacteria

*Staphylococcus aureus*

### Gram-negative Bacteria

*Enterobacter* species

*Escherichia coli*

*Haemophilus influenzae*

*Klebsiella* species

*Moraxella catarrhalis*

The following *in vitro* data are available, **but their clinical significance is unknown**. At least 90 percent of the following bacteria exhibit an *in vitro* minimum inhibitory concentration (MIC) less than or equal to the susceptible breakpoint for amoxicillin and clavulanic acid. However, the efficacy of amoxicillin and clavulanic acid in treating clinical infections due to these bacteria **has not been** established in adequate and well-controlled clinical trials.

### Gram-positive Bacteria

*Enterococcus faecalis*

*Staphylococcus epidermidis*

*Staphylococcus saprophyticus*

*Streptococcus pneumoniae*

*Streptococcus pyogenes*

Viridans group *Streptococcus*

### Gram-negative Bacteria

*Eikenella corrodens*  
*Proteus mirabilis*

### Anaerobic Bacteria

*Bacteroides* species including *Bacteroides fragilis*  
*Fusobacterium* species  
*Peptostreptococcus* species

### *Susceptibility Test Methods*

When available, the clinical microbiology laboratory should provide the results of *in vitro* susceptibility test results for antimicrobial drug products used in resident hospitals 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 an antibacterial drug product for treatment.

### Dilution Techniques

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 test method <sup>2,3</sup> (broth and/or agar). The MIC values should be interpreted according to criteria provided in Table 5.

### Diffusion Techniques

Quantitative methods that require measurement of zone diameters can also provide reproducible estimates of the susceptibility of bacteria to antimicrobial compounds. The zone size provides an estimate of the susceptibility of bacteria to antimicrobial compounds. The zone size should be determined using a standardized test method <sup>3,4</sup>. This procedure uses paper disks impregnated with 30 mcg of amoxicillin and clavulanate potassium (20 mcg amoxicillin plus 10 mcg clavulanic acid) to test the susceptibility of bacteria to amoxicillin and clavulanic acid. The disc diffusion interpretive criteria are provided in Table 5.

**Table 5: Susceptibility Test Interpretive Criteria for Amoxicillin and Clavulanic Acid**

Minimum Inhibitory Concentrations (mcg/mL)	Disk Diffusion (zone diameters in mm)					
	S	I	R	S	I	R
Pathogen						
<i>Enterobacteriaceae</i>	8/4	16/8	32/16	≥18	14-17	≤13
<i>Haemophilus influenzae</i> and <i>Staphylococcus aureus</i>	4/2	--	8/4	≥20	--	≤19

### 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>2,3,4</sup>. Standard amoxicillin and clavulanic acid powder should provide the following range of MIC values noted in Table 6 for the diffusion technique using the 30 mcg amoxicillin and clavulanate potassium (20 mcg amoxicillin plus 10 mcg clavulanic acid) disk, the

criteria in Table 6 should be achieved.

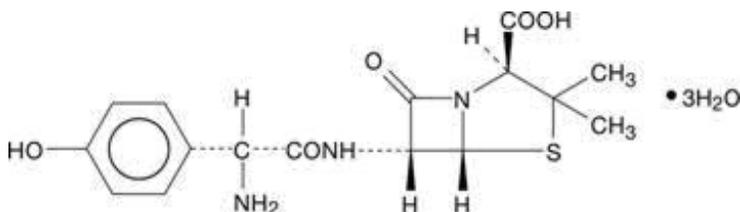
**Table 6: Acceptable Quality Control Ranges for Amoxicillin and Clavulanic Acid**

QC Strain	Minimum Inhibitory Concentration (mcg/mL)	Disk Diffusion (zone diameter in mm)
<i>Escherichia coli</i> ATCC 25922	2/1 to 8/4	18 to 24
<i>Escherichia coli</i> ATCC 35218	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 29213	0.12/0.06 to 0.5/0.25	--
<i>Staphylococcus aureus</i> ATCC 29523	--	28 to 36

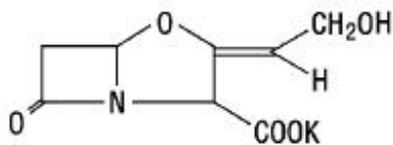
## 11 DESCRIPTION

Amoxicillin and clavulanate potassium tablets, USP are an oral antibacterial combination consisting of amoxicillin and the beta-lactamase inhibitor, clavulanate potassium (the potassium salt of clavulanic acid).

Amoxicillin USP is an analog of ampicillin, derived from the basic penicillin nucleus, 6-aminopenicillanic acid. The amoxicillin molecular formula is  $C_{16}H_{19}N_3O_5 \cdot 3H_2O$ , 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 beta-lactam structurally related to the penicillins and possesses the ability to inactivate some beta-lactamases by blocking the active sites of these enzymes. The clavulanate potassium molecular formula is  $C_8H_8KNO_5$ , and the molecular weight is 237.25. 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:



Each film coated tablet for oral administration contains 250 mg, 500 mg or 875 mg amoxicillin USP as the trihydrate and 125 mg clavulanic acid as the potassium salt. Each amoxicillin and clavulanate potassium tablet 250 mg/125 mg, 500 mg/125 mg or 875 mg/125 mg contains 0.63 mEq potassium.

## **Inactive Ingredients:**

Colloidal silicon dioxide, crospovidone, hypromellose, magnesium stearate, microcrystalline cellulose, polyethylene glycol, sodium starch glycolate, surelease clear (aqueous ethyl cellulose dispersion), and titanium dioxide.

## **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 doses 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, this dose of amoxicillin is approximately 4 times the maximum recommended adult human oral dose (875 mg every 12 hours). For clavulanate, the dose multiple is approximately 9 times higher than the maximum recommended adult human oral dose (125 mg every 8 hours), also based on body surface area.

## **14 CLINICAL STUDIES**

### **14.1 Lower Respiratory Tract and Complicated Urinary Tract Infections**

Data from 2 pivotal trials in 1,191 patients treated for either lower respiratory tract infections or complicated urinary tract infections compared a regimen of 875 mg/125 mg tablets of amoxicillin and clavulanate potassium every 12 hours to 500 mg/125 mg tablets of amoxicillin and clavulanate potassium dosed every 8 hours (584 and 607 patients, respectively). Comparable efficacy was demonstrated between the every 12 hours and every 8 hours dosing regimens. There was no significant difference in the percentage of adverse events in each group. The most frequently reported adverse event was diarrhea; incidence rates were similar for the 875 mg/125 mg every 12 hours and 500 mg/125 mg every 8 hours dosing regimens (15% and 14%, respectively); however, there was a statistically significant difference ( $p < 0.05$ ) in rates of severe diarrhea or withdrawals with diarrhea between the regimens: 1% for 875 mg/125 mg every 12 hours regimen versus 2% for the 500 mg/125 mg every 8 hours regimen.

In one of these pivotal trials, patients with either pyelonephritis ( $n = 361$ ) or a complicated urinary tract infection (i.e., patients with abnormalities of the urinary tract that predispose to relapse of bacteriuria following eradication,  $n = 268$ ) were randomized (1:1) to receive either 875 mg/125 mg tablets of amoxicillin and clavulanate potassium every 12 hours ( $n=308$ ) or 500 mg/125 mg tablets of amoxicillin

and clavulanate potassium every 8 hours (n=321).

The number of bacteriologically evaluable patients was comparable between the two dosing regimens. Amoxicillin and clavulanate potassium produced comparable bacteriological success rates in patients assessed 2 to 4 days immediately following end of therapy. The bacteriologic efficacy rates were comparable at one of the follow-up visits (5 to 9 days post-therapy) and at a late post-therapy visit (in the majority of cases, this was 2 to 4 weeks post-therapy), as seen in Table 7.

**Table 7: Bacteriologic efficacy rates for Amoxicillin and Clavulanate Potassium**

<b>Time Post Therapy</b>	<b>875 mg/125 mg every 12 hours % (n)</b>	<b>500 mg/125 mg every 8 hours % (n)</b>
2 to 4 days	81% (58)	80% (54)
5 to 9 days	58% (41)	52% (52)
2 to 4 weeks	52% (101)	55% (104)

As noted before, though there was no significant difference in the percentage of adverse events in each group, there was a statistically significant difference in rates of severe diarrhea or withdrawals with diarrhea between the regimens.

#### **14.2 Acute Bacterial Otitis Media and Diarrhea in Pediatric Patients**

One U.S./Canadian clinical trial was conducted which compared 45/6.4 mg/kg/day (divided every 12 hours) of amoxicillin and clavulanate potassium for 10 days versus 40/10 mg/kg/day (divided every 8 hours) of amoxicillin and clavulanate potassium for 10 days in the treatment of acute otitis media. Only the suspension formulations were used in this trial. A total of 575 pediatric patients (aged 2 months to 12 years) were enrolled, with an even distribution among the 2 treatment groups and a comparable number of patients were evaluable (i.e.,  $\geq 84\%$ ) per treatment group. Otitis media-specific criteria were required for eligibility and a strong correlation was found at the end of therapy and follow-up between these criteria and physician assessment of clinical response. The clinical efficacy rates at the end of therapy visit (defined as 2 to 4 days after the completion of therapy) and at the follow-up visit (defined as 22 to 28 days post-completion of therapy) were comparable for the 2 treatment groups, with the following cure rates obtained for the evaluable patients: At end of therapy, 87% (n = 265) and 82% (n = 260) for 45 mg/kg/day every 12 hours and 40 mg/kg/day every 8 hours, respectively. At follow-up, 67% (n = 249) and 69% (n = 243) for 45 mg/kg/day every 12 hours and 40 mg/kg/day every 8 hours, respectively.

Diarrhea was defined as either: (a) 3 or more watery or 4 or more loose/watery stools in 1 day; OR (b) 2 watery stools per day or 3 loose/watery stools per day for 2 consecutive days. The incidence of diarrhea was significantly lower in patients who received the every 12 hours regimen compared to patients who received the every 8 hours regimen (14% and 34%, respectively). In addition, the number of patients with either severe diarrhea or who were withdrawn with diarrhea was significantly lower in the every 12 hours treatment group (3% and 8% for the every 12 hours/10 day and every 8 hours/10 day, respectively). In the every 12 hours treatment group, 3 patients (1%) were withdrawn with an allergic reaction, while 1 patient in the every 8 hours group was withdrawn for this reason. The number of patients with a candidal infection of the diaper area was 4% and 6% for the every 12 hours and every 8 hours groups, respectively.

It is not known if the finding of a statistically significant reduction in diarrhea with the oral suspensions dosed every 12 hours, versus suspensions dosed every 8 hours, can be extrapolated to the chewable tablets. The presence of mannitol in the chewable tablets may contribute to a different diarrhea profile. The every 12 hour oral suspensions (200 mg/28.5 mg per 5 mL and 400 mg/57 mg per 5 mL) are sweetened with aspartame.

## 15 REFERENCES

1. 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.
2. Clinical and Laboratory Standards Institute (CLSI). *Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria that Grow Aerobically; Approved Standard – 8<sup>th</sup> ed.* CLSI Document M7-A9. CLSI, 940 West Valley Road, Suite 1400, Wayne, PA, 19087, 2012.
3. Clinical and Laboratory Standards Institute (CLSI). *Performance Standard for Antimicrobial Disk Susceptibility Tests; Approved Standard – 11<sup>th</sup> ed.* CLSI Document M2-A11. CLSI, 940 West Valley Road, Suite 1400, Wayne, PA, 19087, 2012.
4. CLSI. *Performance Standards for Antimicrobial Susceptibility Testing: 22<sup>nd</sup> Informational Supplement.* CLSI document M100-S22. CLSI, Wayne, PA, 2012.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

**A moxicillin and Clavulanate Potassium Tablets USP, 250 mg/125 mg** are white to off-white, oval shaped, film-coated tablets, debossed with ‘A’ on one side and ‘63’ on the other side.

Bottles of 30	NDC 65862-501-30
Bottles of 500	NDC 65862-501-05
10 x 10 Unit-dose Tablets	NDC 65862-501-10

**Amoxicillin and Clavulanate Potassium Tablets USP, 500 mg/125 mg** are white to off-white, oval shaped, film-coated tablets, debossed with ‘X’ on one side and ‘33’ on the other side.

Bottles of 20	NDC 65862-502-20
Bottles of 500	NDC 65862-502-05
10 x 10 Unit-dose Tablets	NDC 65862-502-10

**Amoxicillin and Clavulanate Potassium Tablets USP, 875 mg/125 mg** are white to off-white, capsule shaped, film-coated tablets, debossed with ‘X’ on one side and score line in between 3 and 2 on the other side.

Bottles of 20	NDC 65862-503-20
Bottles of 100	NDC 65862-503-01
10 x 10 Unit-dose Tablets	NDC 65862-503-10

Dispense in a tight container [see USP].

**Store at 20° to 25°C (68° to 77°F)** [see USP Controlled Room Temperature].

Keep out of the reach of children.

## 17 PATIENT COUNSELING INFORMATION

### 17.1 Information for Patients

Patients should be informed that amoxicillin and clavulanate potassium may be taken every 8 hours or every 12 hours, depending on the dose prescribed. Each dose should be taken with a meal or snack to reduce the possibility of gastrointestinal upset.

Patients should be counseled that antibacterial drugs, including amoxicillin and clavulanate potassium, should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When amoxicillin and clavulanate potassium 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 or other antibacterial drugs in the future.

Counsel patients that diarrhea is a common problem caused by antibacterials, and it usually ends when the antibacterial is discontinued. Sometimes after starting treatment with antibacterials, 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 their last dose of the antibacterial. If diarrhea is severe or lasts more than 2 or 3 days, patients should contact their physician.

Patients should be aware that amoxicillin and clavulanate potassium contains a penicillin class drug product that can cause allergic reactions in some individuals.

CLINITEST is a registered trademark of Miles, Inc.

Manufactured for:

**Aurobindo Pharma USA, Inc.**

2400 Route 130 North

Dayton, NJ 08810

Manufactured by:

**Aurobindo Pharma Limited**

Hyderabad-500 072, India

Revised: 03/2013

### **PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 875 mg/125 mg (20 Tablet Bottle)**

Blenheim Pharmacal, Inc.

**NDC 10544-931-20**

Amoxicillin and Clavulanate Potassium

Tablets, USP

875 mg/125 mg

Rx only 20 Tablets

NDC: 10544-931-20 LCN# 000  
MFG: 65862-503-01 Rev. 1



**Amoxicillin  
and Clavulanate  
Potassium Tablets,  
USP 875mg/125mg  
20 Tablets**  
**Rx Only**

Dosage: See package insert  
Store at controlled room temperature  
20°-25°C (68°-77°F)

Store in a tight, light-resistant  
container (See USP). Keep out of the  
reach of children

Each film-coated tablet contains:  
875mg amoxicillin USP as the trihydrate  
and 125mg clavulanic acid as clavulanate  
potassium. Each tablet contains 0.63 mEq  
potassium.

Mfg: Aurobindo Pharma Limited  
Packaged By: Blenheim Pharmaceutical, Inc.,  
North Blenheim, NY 12131  
Lot #: BP000000000  
Exp. Date: 00/00/0000



1054493120+BP000000000+0000

Amoxicillin and Clavulanate Potassium  
Tablets, USP 875mg/125mg 20 Tablets  
NDC: 10544-931-20 MFG: 65862-503-01  
Lot #: BP000000000 Exp.Date: 00/00/0000

Amoxicillin and Clavulanate Potassium  
Tablets, USP 875mg/125mg 20 Tablets  
NDC: 10544-931-20 MFG: 65862-503-01  
Lot #: BP000000000 Exp.Date: 00/00/0000

Amoxicillin and Clavulanate Potassium  
Tablets, USP 875mg/125mg 20 Tablets  
NDC: 10544-931-20 MFG: 65862-503-01  
Lot #: BP000000000 Exp.Date: 00/00/0000

Amoxicillin and Clavulanate Potassium  
Tablets, USP 875mg/125mg 20 Tablets  
NDC: 10544-931-20 MFG: 65862-503-01  
Lot #: BP000000000 Exp.Date: 00/00/0000

PEEL HERE

PEEL HERE

## AMOXICILLIN AND CLAVULANATE POTASSIUM

amoxicillin and clavulanate potassium tablet, film coated

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:10544-931(NDC:65862-503)
Route of Administration	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
AMOXICILLIN (UNII: 804826J2HU) (AMOXICILLIN ANHYDROUS - UNII:9EM05410Q9)	AMOXICILLIN ANHYDROUS	875 mg
CLAVULANATE POTASSIUM (UNII: Q420MW3AT8) (CLAVULANIC ACID - UNII:23521W1S24)	CLAVULANIC ACID	125 mg

### Inactive Ingredients

Ingredient Name	Strength
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
CROSPOLVIDONE (UNII: 68401960MK)	
HYPROMELLOSE 2910 (5 MPAS) (UNII: R75537T0T4)	
HYPROMELLOSE 2910 (15000 MPAS) (UNII: 288VBX44JC)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
POLYETHYLENE GLYCOL 4000 (UNII: 4R4HF16D95)	
POLYETHYLENE GLYCOL 6000 (UNII: 30IQX730WE)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
ETHYLCELLULOSES (UNII: 7Z8S9VYZ4B)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	

### Product Characteristics

Color	white (White to Off-white)	Score	2 pieces
Shape	CAPSULE	Size	22mm

<b>Flavor</b>		<b>Imprint Code</b>	X;3;2
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:10544-931-20	20 in 1 BOTTLE; Type 0: Not a Combination Product	05/28/2015	
2	NDC:10544-931-14	14 in 1 BOTTLE; Type 0: Not a Combination Product	07/08/2015	
3	NDC:10544-931-06	6 in 1 BOTTLE; Type 0: Not a Combination Product	02/02/2016	
4	NDC:10544-931-10	10 in 1 BOTTLE; Type 0: Not a Combination Product	04/01/2016	

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA091568	05/28/2015	

**Labeler** - Blenheim Pharmacal, Inc. (171434587)

**Registrant** - Blenheim Pharmacal, Inc. (171434587)

### Establishment

Name	Address	ID/FEI	Business Operations
Blenheim Pharmacal, Inc		171434587	repack(10544-931)

Revised: 4/2016

Blenheim Pharmacal, Inc.