

AMOXICILLIN AND CLAVULANATE POTASSIUM- amoxicillin and clavulanate potassium powder, for suspension
Rebel Distributors Corp.

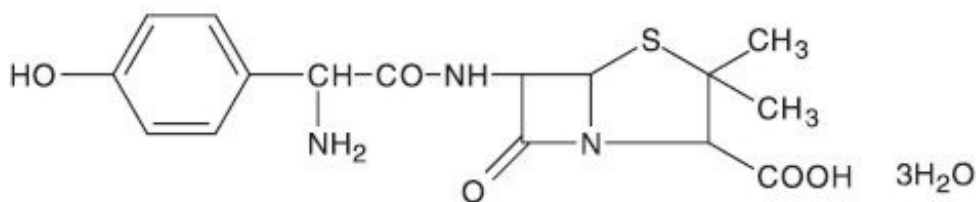
Amoxicillin and Clavulanate Potassium

Rx only

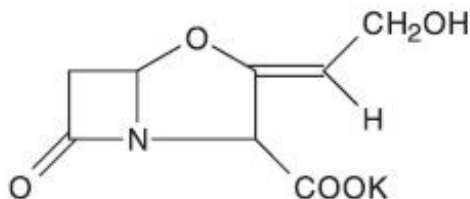
To reduce the development of drug-resistant bacteria and maintain the effectiveness of amoxicillin and clavulanate potassium for oral suspension and chewable tablets and other antibacterial drugs, amoxicillin and clavulanate potassium for oral suspension and chewable tablets should be used only to treat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

DESCRIPTION

Amoxicillin and clavulanate potassium for oral suspension and chewable tablets are 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*)-(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 chewable tablet and each teaspoon (5 mL) of reconstituted oral suspension contains 200 mg or 400 mg amoxicillin as the trihydrate and 28.5 or 57 mg clavulanic acid as the potassium salt. Each 200 mg/28.5 mg chewable tablet and each 5 mL of reconstituted amoxicillin and clavulanate potassium 200

mg/28.5 mg oral suspension contains 0.14 mEq potassium. Each 400 mg/57 mg chewable tablet and each 5 mL of reconstituted 400 mg/57 mg oral suspension contains 0.29 mEq of potassium.

Inactive Ingredients

Powder for Oral Suspension - Aspartame¹, colloidal silicon dioxide, hydroxypropyl methylcellulose, mannitol, orange flavoring, precipitated silicon dioxide, succinic acid, xanthan gum, and golden syrup flavoring (carmel). Chewable Tablets - Aspartame², banana flavoring (See HOW SUPPLIED), cherry flavoring (See HOW SUPPLIED), colloidal silicon dioxide, FD&C Red No. 40, magnesium stearate, mannitol, and sodium starch glycolate.

¹ See PRECAUTIONS-Information for Patients.

² See PRECAUTIONS-Information for Patients.

CLINICAL PHARMACOLOGY

Amoxicillin and clavulanate potassium are well absorbed from the gastrointestinal tract after oral administration of amoxicillin and clavulanate potassium for oral suspension and chewable tablets. Dosing in the fasted or fed state has minimal effect on the pharmacokinetics of amoxicillin. While amoxicillin and clavulanate potassium for oral suspension and chewable tablets 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 for oral suspension and chewable tablets were dosed at 30 and 150 minutes after the start of a high fat breakfast. The safety and efficacy of amoxicillin and clavulanate potassium have been established in clinical trials where amoxicillin and clavulanate potassium for oral suspension and chewable tablets were taken without regard to meals.

Oral administration of single doses of 400 mg/57 mg amoxicillin and clavulanate potassium chewable tablets and 400 mg/57 mg per 5 mL suspension to 28 adult volunteers yielded comparable pharmacokinetic data:

Dose*	AUC _{0-∞} (mcg.hr./mL)		C _{max} (mcg/mL) [†]	
	amoxicillin (± S.D.)	clavulanate potassium (± S.D.)	amoxicillin (± S.D.)	clavulanate potassium (± S.D.)
400 mg/57 mg (5 mL of suspension)	17.29 ± 2.28	2.34 ± 0.94	6.94 ± 1.24	1.10 ± 0.42
400 mg/57 mg (one chewable tablet)	17.24 ± 2.64	2.17 ± 0.73	6.67 ± 1.37	1.03 ± 0.33

* Administered at the start of a light meal.

[†] Mean values of 28 normal volunteers. Peak concentrations occurred approximately 1 hour after the dose.

Oral administration of 5 mL of amoxicillin and clavulanate potassium 250 mg/62.5 mg suspension or the equivalent dose of 10 mL amoxicillin and clavulanate potassium 125 mg/31.25 mg 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 suspension or equivalent dose of 10 mL of amoxicillin and clavulanate potassium 125 mg/31.25 mg suspension was administered to adult

volunteers. One amoxicillin and clavulanate potassium 250 mg/62.5 mg chewable tablet or 2 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 suspension and provide similar serum levels of amoxicillin and clavulanic acid.

Amoxicillin serum concentrations achieved with amoxicillin and clavulanate potassium for oral suspension and chewable tablets are similar to those produced by the oral administration of equivalent doses of amoxicillin alone. The half-life of amoxicillin after the oral administration of amoxicillin and clavulanate potassium for oral suspension and chewable tablets is 1.3 hours and that of clavulanic acid is 1 hour. Time above the minimum inhibitory concentration of 1 mcg/mL for amoxicillin has been shown to be similar after corresponding q12h and q8h dosing regimens of amoxicillin and clavulanate potassium for oral suspension and chewable tablets in adults and children.

Approximately 50% to 70% of the amoxicillin and approximately 25% to 40% of the clavulanic acid are excreted unchanged in urine during the first 6 hours after administration of 10 mL of amoxicillin and clavulanate potassium 250 mg/62.5 mg suspension.

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

Neither component in amoxicillin and clavulanate potassium for oral suspension and chewable tablets is highly protein-bound; clavulanic acid has been found to be 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. The results of experiments involving the administration of clavulanic acid to animals suggest that this compound, like amoxicillin, is well distributed in body tissues.

Two hours after oral administration of a single 35 mg/kg dose of amoxicillin and clavulanate potassium suspension 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.

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, the spectrum of activity does not include organisms which produce these enzymes. Clavulanic acid is a β -lactam, structurally related to the penicillins, 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 responsible for transferred drug resistance.

The formulation of amoxicillin and clavulanic acid in amoxicillin and clavulanate potassium for oral suspension and chewable tablets 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 and chewable tablets possess the distinctive properties of a broad-spectrum antibiotic and a β -lactamase inhibitor.

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

GRAM-POSITIVE AEROBES

Staphylococcus aureus (β -lactamase and non- β -lactamase producing)³.

³ *Staphylococci* which are resistant to methicillin/oxacillin must be considered resistant to amoxicillin/clavulanic acid.

GRAM-NEGATIVE AEROBES

Enterobacter species (Although most strains of *Enterobacter* species are resistant *in-vitro*, clinical efficacy has been demonstrated with amoxicillin and clavulanate potassium for oral suspension and chewable tablets in urinary tract infections caused by these organisms.)

Escherichia coli (β -lactamase and non- β -lactamase producing)

Haemophilus influenzae (β -lactamase and non- β -lactamase producing)

Klebsiella species (All known strains are β -lactamase producing)

Moraxella catarrhalis β -lactamase and non- β -lactamase producing)

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

Amoxicillin/clavulanic acid exhibits *in-vitro* minimal inhibitory concentrations (MICs) of 2 mcg/mL or less against most ($\geq 90\%$) strains of *Streptococcus pneumoniae*⁴; MICs of 0.06 mcg/mL or less against most ($\geq 90\%$) strains of *Neisseria gonorrhoeae*; MICs of 4 mcg/mL or less against most ($\geq 90\%$) strains of staphylococci and anaerobic bacteria; and MICs of 8 mcg/mL or less against most ($\geq 90\%$) strains of other listed organisms. However, with the exception of organisms shown to respond to amoxicillin alone, the safety and effectiveness of amoxicillin/clavulanic acid in treating clinical infections due to these microorganisms have not been established in adequate and well-controlled clinical trials.

⁴ Because amoxicillin has greater *in-vitro* activity against *S. pneumoniae* than does ampicillin or penicillin, the majority of *S. pneumoniae* strains with intermediate susceptibility to ampicillin or penicillin are fully susceptible to amoxicillin.

GRAM-POSITIVE AEROBES

*Enterococcus faecalis*⁵

Staphylococcus epidermidis (β -lactamase and non- β -lactamase producing)

Staphylococcus saprophyticus (β -lactamase and non- β -lactamase producing)

Streptococcus pneumoniae^{6/7}

Streptococcus pyogenes^{8/9}

viridans group *Streptococcus*^{10/11}

GRAM-NEGATIVE AEROBES

Eikenella corrodens (β -lactamase and non- β -lactamase producing)

*Neisseria gonorrhoeae*¹² (β -lactamase and non- β -lactamase producing)

*Proteus mirabilis*¹³ (β -lactamase and non- β -lactamase producing)

ANAEROBIC BACTERIA

Bacteroides species, including *Bacteroides fragilis* (β -lactamase and non- β -lactamase producing)

Fusobacterium species (β -lactamase and non- β -lactamase producing)

*Peptostreptococcus species*¹⁴

⁵ Adequate and well-controlled clinical trials have established the effectiveness of amoxicillin alone in treating certain clinical infections due to these organisms.

⁶ Adequate and well-controlled clinical trials have established the effectiveness of amoxicillin alone in treating certain clinical infections due to these organisms.

⁷ These are non- β -lactamase-producing organisms and, therefore, are susceptible to amoxicillin alone.

⁸ Adequate and well-controlled clinical trials have established the effectiveness of amoxicillin alone in treating certain clinical infections due to these organisms.

⁹ These are non- β -lactamase-producing organisms and, therefore, are susceptible to amoxicillin alone.

¹⁰ Adequate and well-controlled clinical trials have established the effectiveness of amoxicillin alone in treating

certain clinical infections due to these organisms.

¹¹ These are non- β -lactamase-producing organisms and, therefore, are susceptible to amoxicillin alone.

¹² Adequate and well-controlled clinical trials have established the effectiveness of amoxicillin alone in treating certain clinical infections due to these organisms.

¹³ Adequate and well-controlled clinical trials have established the effectiveness of amoxicillin alone in treating certain clinical infections due to these organisms.

¹⁴ These are non- β -lactamase-producing organisms and, therefore, are susceptible to amoxicillin alone.

Susceptibility Testing

Dilution Techniques

Quantitative methods are used to determine antimicrobial MICs. These MICs provide estimates of the susceptibility of bacteria to antimicrobial compounds. The MICs should be determined using a standardized procedure. Standardized procedures are based on a dilution method¹ (broth or agar) or equivalent with standardized inoculum concentrations 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 the following criteria:

RECOMMENDED RANGES FOR AMOXICILLIN/CLAVULANIC ACID SUSCEPTIBILITY TESTING

For gram-negative enteric aerobes:

<u>MIC (mcg/mL)</u>	<u>Interpretation</u>
$\leq 8/4$	Susceptible (S)
16/8	Intermediate (I)
$\geq 32/16$	Resistant (R)

For *Staphylococcus** and *Haemophilus* species:

<u>MIC (mcg/mL)</u>	<u>Interpretation</u>
$\leq 4/2$	Susceptible (S)
$\geq 8/4$	Resistant (R)

* Staphylococci which are susceptible to amoxicillin/clavulanic acid but resistant to methicillin/oxacillin must be considered as resistant.

For *S. pneumoniae* from non-meningitis sources: Isolates should be tested using amoxicillin/clavulanic acid and the following criteria should be used:

<u>MIC (mcg/mL)</u>	<u>Interpretation</u>
$\leq 2/1$	Susceptible (S)
4/2	Intermediate (I)
$\geq 8/4$	Resistant (R)

Note: These interpretive criteria are based on the recommended doses for respiratory tract infections.

A report of "Susceptible" indicates that the pathogen is likely to be inhibited if the antimicrobial compound in the blood reaches the concentration usually achievable. A report of "Intermediate" indicates that the result should be considered equivocal, and, if the microorganism is not fully

susceptible to alternative, clinically feasible drugs, 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 dosage of drug can be used. This category also provides a buffer zone that prevents small uncontrolled technical factors from causing major discrepancies in interpretation. A report of "Resistant" indicates that the pathogen is not likely to be inhibited if the antimicrobial compound in the blood reaches the concentrations usually achievable; other therapy should be selected.

Standardized susceptibility test procedures require the use of laboratory control microorganisms to control the technical aspects of the laboratory procedures. Standard amoxicillin/clavulanate potassium powder should provide the following MIC values:

<u>Microorganism</u>	<u>MIC Range (mcg/mL)*</u>
<i>Escherichia coli</i> ATCC 25922	2 to 8
<i>Escherichia coli</i> ATCC 35218	4 to 16
<i>Enterococcus faecalis</i> ATCC 29212	0.25 to 1
<i>Haemophilus influenzae</i> ATCC 49247	2 to 16
<i>Staphylococcus aureus</i> ATCC 29213	0.12 to 0.5
<i>Streptococcus pneumoniae</i> ATCC 49619	0.03 to 0.12

* Expressed as concentration of amoxicillin in the presence of clavulanic acid at a constant 2 parts amoxicillin to 1 part clavulanic acid.

Diffusion Techniques

Quantitative methods that require measurement of zone diameters also provide reproducible estimates of the susceptibility of bacteria to antimicrobial compounds. One such standardized procedure² requires the use of standardized inoculum concentrations. This procedure uses paper disks impregnated with 30 mcg of amoxicillin/clavulanate potassium (20 mcg amoxicillin plus 10 mcg clavulanate potassium) to test the susceptibility of microorganisms to amoxicillin/clavulanic acid.

Reports from the laboratory providing results of the standard single disk susceptibility test with a 30 mcg amoxicillin/clavulanate potassium (20 mcg amoxicillin plus 10 mcg clavulanate potassium) disk should be interpreted according to the following criteria:

RECOMMENDED RANGES FOR AMOXICILLIN/CLAVULANIC ACID SUSCEPTIBILITY TESTING

For *Staphylococcus** species and *H. influenzae*†:

<u>Zone Diameter (mm)</u>	<u>Interpretation</u>
≥20	Susceptible (S)
≤19	Resistant (R)

For other organisms except *S. pneumoniae*‡ and *N. gonorrhoeae*§:

<u>Zone Diameter (mm)</u>	<u>Interpretation</u>
≥18	Susceptible (S)
14 to 17	Intermediate (I)
≤13	Resistant (R)

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

† A broth microdilution method should be used for testing *H. influenzae*. Beta-lactamase negative, ampicillin-resistant strains must be

considered resistant to amoxicillin/clavulanic acid.

- ‡ 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.
- § A broth microdilution method should be used for testing *N. gonorrhoeae* and interpreted according to penicillin breakpoints.

Interpretation should be as stated above for results using dilution techniques. Interpretation involves correlation of the diameter obtained in the disk test with the MIC for amoxicillin/clavulanic acid.

As with standardized dilution techniques, diffusion methods require the use of laboratory control microorganisms that are used to control the technical aspects of the laboratory procedures. For the diffusion technique, the 30 mcg amoxicillin/clavulanate potassium (20 mcg amoxicillin plus 10 mcg clavulanate potassium) disk should provide the following zone diameters in these laboratory quality control strains:

<u>Microorganism</u>	<u>Zone Diameter (mm)</u>
<i>Escherichia coli</i> ATCC 25922	19 to 25 mm
<i>Escherichia coli</i> ATCC 35218	18 to 22 mm
<i>Staphylococcus aureus</i> ATCC 25923	28 to 36 mm

INDICATIONS AND USAGE

Amoxicillin and clavulanate potassium for oral suspension and chewable tablets are indicated in the treatment of infections caused by susceptible strains of the designated organisms in the conditions listed below:

Lower Respiratory Tract Infections – caused by β -lactamase-producing strains of *H. influenzae* and *M. catarrhalis*.

Otitis Media – caused by β -lactamase-producing strains of *H. influenzae* and *M. catarrhalis*.

Sinusitis – caused by β -lactamase-producing strains of *H. influenzae* and *M. catarrhalis*.

Skin and Skin Structure Infections – caused by β -lactamase-producing strains of *S. aureus*, *E. coli* and *Klebsiella* spp.

Urinary Tract Infections – caused by β -lactamase-producing strains of *E. coli*, *Klebsiella* spp. and *Enterobacter* spp.

While amoxicillin and clavulanate potassium for oral suspension and chewable tablets are indicated only for the conditions listed above, infections caused by ampicillin-susceptible organisms are also amenable to amoxicillin and clavulanate potassium for oral suspension and chewable tablets treatment due to its amoxicillin content. Therefore, mixed infections caused by ampicillin-susceptible organisms and β -lactamase-producing organisms susceptible to amoxicillin and clavulanate potassium for oral suspension and chewable tablets should not require the addition of another antibiotic. Because amoxicillin has greater *in-vitro* activity against *S. pneumoniae* than does ampicillin or penicillin, the majority of *S. pneumoniae* strains with intermediate susceptibility to ampicillin or penicillin are fully susceptible to amoxicillin and amoxicillin and clavulanate potassium for oral suspension and chewable tablets. (See Microbiology.)

To reduce the development of drug-resistant bacteria and maintain the effectiveness of amoxicillin and clavulanate potassium for oral suspension and chewable tablets and other antibacterial drugs, amoxicillin and clavulanate potassium for oral suspension and chewable tablets 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.

Bacteriological studies, to determine the causative organisms and their susceptibility to amoxicillin and clavulanate potassium for oral suspension and chewable tablets, should be performed together with any indicated surgical procedures.

CONTRAINDICATIONS

Amoxicillin and clavulanate potassium for oral suspension and chewable tablets are contraindicated in patients with a history of allergic reactions to any penicillin. It is also contraindicated in patients with a previous history of amoxicillin and clavulanate potassium-associated cholestatic jaundice/hepatic dysfunction.

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/CLAVULANATE POTASSIUM, CAREFUL INQUIRY SHOULD BE MADE CONCERNING PREVIOUS HYPERSENSITIVITY REACTIONS TO PENICILLINS, CEPHALOSPORINS OR OTHER ALLERGENS. IF AN ALLERGIC REACTION OCCURS, AMOXICILLIN/CLAVULANATE POTASSIUM SHOULD BE DISCONTINUED AND THE APPROPRIATE THERAPY INSTITUTED. **SERIOUS ANAPHYLACTIC REACTIONS REQUIRE IMMEDIATE EMERGENCY TREATMENT WITH EPINEPHRINE. OXYGEN, INTRAVENOUS STEROIDS AND AIRWAY MANAGEMENT, INCLUDING INTUBATION, SHOULD ALSO BE ADMINISTERED AS INDICATED.**

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

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

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

Amoxicillin and clavulanate potassium for oral suspension and chewable tablets should be used with caution in patients with evidence of hepatic dysfunction. Hepatic toxicity associated with the use of amoxicillin and clavulanate potassium for oral suspension and chewable tablets is usually reversible. On rare occasions, deaths have been reported (less than 1 death reported per estimated 4 million prescriptions worldwide). These have generally been cases associated with serious underlying diseases or concomitant medications. (See CONTRAINDICATIONS and ADVERSE REACTIONS-Liver.)

PRECAUTIONS

General

While amoxicillin and clavulanate potassium for oral suspension and chewable tablets possess the characteristic low toxicity of the penicillin group of antibiotics, periodic assessment of organ system functions, including renal, hepatic and hematopoietic function, is advisable during prolonged therapy.

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 and chewable tablets 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 and chewable tablets may be taken every 8 hours or every 12 hours, depending on the strength of the product prescribed. Each dose should be taken with a meal or snack to reduce the possibility of gastrointestinal upset. Many antibiotics can cause diarrhea. If diarrhea is severe or lasts more than 2 or 3 days, call your doctor.

Keep suspension refrigerated. Shake well before using. When dosing a child with amoxicillin and clavulanate potassium suspension (liquid), use a dosing spoon or medicine dropper. Be sure to rinse the spoon or dropper after each use. Bottles of amoxicillin and clavulanate potassium suspension 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 and chewable tablets should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When amoxicillin and clavulanate potassium for oral suspension or chewable tablets are 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 and chewable tablets or other antibacterial drugs in the future.

Phenylketonurics

Each 200 mg/28.5 mg amoxicillin and clavulanate potassium chewable tablet contains 2 mg phenylalanine and each 400 mg/57 mg chewable tablet contains 4 mg phenylalanine. Each 5 mL of either the 200 mg/28.5 mg or 400 mg/57 mg oral suspension contains 7 mg phenylalanine. The other products of amoxicillin and clavulanate potassium do not contain phenylalanine and can be used by phenylketonurics. Contact your physician or pharmacist.

Drug Interactions

Probenecid decreases the renal tubular secretion of amoxicillin. Concurrent use with amoxicillin and clavulanate potassium for oral suspension and chewable tablets 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 and chewable tablets and allopurinol administered concurrently.

In common with other broad-spectrum antibiotics, amoxicillin and clavulanate potassium for oral suspension and chewable tablets may reduce the efficacy of oral contraceptives.

Drug/Laboratory Test Interactions

Oral administration of amoxicillin and clavulanate potassium for oral suspension and chewable tablets 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 and chewable tablets, 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 and chewable tablets.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term studies in animals have not been performed to evaluate carcinogenic potential.

Mutagenesis

The mutagenic potential of amoxicillin and clavulanate potassium for oral suspension and chewable tablets 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 vitro* 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.

Impairment of Fertility

Amoxicillin and clavulanate potassium for oral suspension and chewable tablets at oral doses of up to 1200 mg/kg/day (5.7 times the maximum human dose, 1480 mg/m²/day, 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 for oral suspension and chewable tablets at oral dosages up to 1200 mg/kg/day, equivalent to 7200 and 4080 mg/m²/day, respectively (4.9 and 2.8 times the maximum human oral dose based on body surface area), revealed no evidence of harm to the fetus due to amoxicillin and clavulanate potassium for oral suspension and chewable tablets. 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 for oral suspension and chewable tablets 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 the milk; therefore, caution should be exercised when amoxicillin and clavulanate potassium for oral suspension and chewable tablets are administered to a nursing woman.

Pediatric Use

Because of incompletely developed renal function in neonates and young infants, the elimination of amoxicillin may be delayed. Dosing of amoxicillin and clavulanate potassium for oral suspension and chewable tablets should be modified in pediatric patients younger than 12 weeks (3 months). (See DOSAGE AND ADMINISTRATION-Pediatric.)

ADVERSE REACTIONS

Amoxicillin and clavulanate potassium for oral suspension and chewable tablets are generally well tolerated. The majority of side effects observed in clinical trials were of a mild and transient nature and less than 3% of patients discontinued therapy because of drug-related side effects. From the original premarketing studies, where both pediatric and adult patients were enrolled, the most frequently reported adverse effects were diarrhea/loose stools (9%), nausea (3%), skin rashes and urticaria (3%), vomiting (1%) and vaginitis (1%). The overall incidence of side effects, and in particular diarrhea, increased with the higher recommended dose. Other less frequently reported reactions include: abdominal discomfort, flatulence and headache.

In pediatric patients (aged 2 months to 12 years), one U.S./Canadian clinical trial was conducted which compared amoxicillin and clavulanate potassium for oral suspension and chewable tablets 45/6.4 mg/kg/day (divided q12h) for 10 days versus amoxicillin and clavulanate potassium for oral suspension and chewable tablets 40/10 mg/kg/day (divided q8h) 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 event profile seen was comparable to that noted above. However, there were differences in the rates of diarrhea, skin rashes/urticaria, and diaper area rashes. (See CLINICAL STUDIES.)

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

Gas trointes tinal

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

Hypersensitivity Reactions

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

Liver

A moderate rise in AST (SGOT) and/or ALT (SGPT) has been noted in patients treated with ampicillin class antibiotics but the significance of these findings is unknown. Hepatic dysfunction, including increases in serum transaminases (AST and/or ALT), serum bilirubin and/or alkaline phosphatase, has been infrequently reported with amoxicillin and clavulanate potassium for oral suspension and chewable tablets. 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.

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 for oral suspension and chewable tablets. There have been reports of increased prothrombin time in patients receiving amoxicillin and clavulanate potassium for oral suspension and chewable tablets and anticoagulant therapy concomitantly.

Central Nervous System

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

OVERDOSAGE

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

In the case of overdose, discontinue amoxicillin and clavulanate potassium for oral suspension and chewable tablets, treat symptomatically, and institute supportive measures as required. If the overdose is very recent and there is no contraindication, an attempt at emesis or other means of removal of drug from the stomach may be performed. A prospective study of 51 pediatric patients at a poison center suggested that overdoses of less than 250 mg/kg of amoxicillin are not associated with significant clinical symptoms and do not require gastric emptying.³

Interstitial nephritis resulting in oliguric renal failure has been reported in a small number of patients after overdose with amoxicillin. Crystalluria has also been reported after amoxicillin overdose. Renal impairment appears to be reversible with cessation of drug administration. High blood levels may occur more readily in patients with impaired renal function because of decreased renal clearance of both amoxicillin and clavulanate. Both amoxicillin and clavulanate are removed from the circulation by hemodialysis.

DOSAGE AND ADMINISTRATION

All recommended dosages for Amoxicillin and Clavulanate Potassium for Oral Suspension and

Chewable Tablets are included in this section for informational purposes only. Some of the dosages may not be obtainable with the 400 mg/57mg per 5 mL and 200 mg/28.5 mg per 5 mL strengths of oral suspension or the 400 mg/57 mg and 200 mg/28.5 mg strengths of chewable tablets.

Dosage

Pediatric Patients

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

Neonates and Infants Aged < 12 Weeks (3 Months)

Due to incompletely developed renal function affecting elimination of amoxicillin in this age group, the recommended dose of amoxicillin and clavulanate potassium for oral suspension and chewable tablets is 30 mg/kg/day divided q12h, based on the amoxicillin component. Clavulanate elimination is unaltered in this age group. 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

INFECTIONS	DOSING REGIMEN	
	q12h*	q8h
	200 mg/28.5 mg per 5 mL or 400 mg/57 mg per 5 mL oral suspension†	125 mg/31.25 mg per 5 mL or 250 mg/62.5 mg per 5 mL oral suspension†
Otitis media‡, sinusitis, lower respiratory tract infections, and more severe infections	45 mg/kg/day q12h	40 mg/kg/day q8h
Less severe infections	25 mg/kg/day q12h	20 mg/kg/day q8h

* The q12h regimen is recommended as it is associated with significantly less diarrhea. (See CLINICAL STUDIES.) However, the q12h formulations (200 mg/28.5 mg and 400 mg/57 mg) contain aspartame and should not be used by phenylketonurics.

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

‡ Duration of therapy studied and recommended for acute otitis media is 10 days.

Pediatric Patients Weighing 40 kg and More

Should be dosed according to the following adult recommendations: The usual adult dose is 1 amoxicillin and clavulanate potassium 500 mg/125 mg tablet every 12 hours or 1 amoxicillin and clavulanate potassium 250 mg/125 mg tablet every 8 hours. For more severe infections and infections of the respiratory tract, the dose should be 1 amoxicillin and clavulanate potassium 875 mg/125 mg tablet every 12 hours or 1 amoxicillin and clavulanate potassium 500 mg/125 mg tablet every 8 hours. Among adults treated with 875 mg/125 mg every 12 hours, significantly fewer experienced severe diarrhea or withdrawals with diarrhea vs. adults treated with 500 mg/125 mg every 8 hours. For detailed adult

dosage recommendations, please see complete prescribing information for amoxicillin/clavulanate potassium tablets.

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

Adults

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. See dosage recommendations above for children weighing 40 kg or more.

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

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

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 200 mg/28.5 mg per 5 mL SUSPENSION

Bottle Size	Amount of Water Required for Suspension
100 mL	88 mL

Each teaspoonful (5 mL) will contain 200 mg amoxicillin and 28.5 mg of clavulanic acid as the potassium salt.

AMOXICILLIN AND CLAVULANATE POTASSIUM 400 mg/57 mg per 5 mL SUSPENSION

Bottle Size	Amount of Water Required for Reconstitution
100 mL	84 mL

Each teaspoonful (5 mL) will contain 400 mg amoxicillin and 57 mg of clavulanic acid as the potassium salt.

NOTE: SHAKE ORAL SUSPENSION WELL BEFORE USING.

Reconstituted suspension must be stored under refrigeration and discarded after 10 days.

Administration

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

Tablets may be chewed before being swallowed or may be swallowed whole.

HOW SUPPLIED

Amoxicillin and clavulanate potassium for oral suspension, USP is supplied as a dry white powder containing:

Amoxicillin and Clavulanate Potassium 200 mg/28.5 mg per 5 mL: Each 5 mL of reconstituted orange-flavored suspension contains 200 mg amoxicillin and 28.5 mg clavulanic acid as the potassium salt.

NDC 0781-6102-46100 mL bottle

Amoxicillin and Clavulanate Potassium 400 mg/57 mg per 5 mL: Each 5 mL of reconstituted orange-flavored suspension contains 400 mg amoxicillin and 57 mg clavulanic acid as the potassium salt.

NDC 0781-6104-46100 mL bottle

Amoxicillin and Clavulanate Potassium tablets, USP (chewable) are supplied as:

Amoxicillin and Clavulanate Potassium 200 mg/28.5 mg tablets, USP (chewable): Round, pink, cherry-banana flavored tablets embossed "GGN2" on one side and plain on the reverse side. Each tablet contains 200 mg amoxicillin and 28.5 mg clavulanic acid as the potassium salt.

NDC 0781-1619-66Carton of 20 (4 × 5) tablets

Amoxicillin and Clavulanate Potassium 400 mg/57 mg tablets, USP (chewable): Round, pink, cherry-banana flavored tablets embossed "GGN4" on one side and plain on the reverse side. Each tablet contains 400 mg amoxicillin and 57 mg clavulanic acid as the potassium salt.

NDC 0781-1643-66Carton of 20 (4 × 5) tablets

Store tablets and dry powder at 20°-25°C (68°-77°F) [See USP Controlled Room Temperature]. Dispense in tightly closed, moisture-proof containers. Store reconstituted suspension under refrigeration. Discard unused suspension after 10 days.

CLINICAL STUDIES

In pediatric patients (aged 2 months to 12 years), one U.S./Canadian clinical trial was conducted which compared amoxicillin and clavulanate potassium for oral suspension and chewable tablets 45/6.4 mg/kg/day (divided q12h) for 10 days versus amoxicillin and clavulanate potassium for oral suspension and chewable tablets 40/10 mg/kg/day (divided q8h) for 10 days in the treatment of acute otitis media. Only the suspension formulations were used in this trial. A total of 575 patients were enrolled, with an even distribution among the two treatment groups and a comparable number of patients were evaluable (i.e., ≥84%) per treatment group. Strict 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 2-4 days after the completion of therapy) and at the follow-up visit (defined as 22-28 days post-completion of therapy) were comparable for the two treatment groups, with the following cure rates obtained for the evaluable patients: At end of therapy, 87.2% (n=265) and 82.3% (n=260) for 45 mg/kg/day q12h and 40 mg/kg/day q8h, respectively. At follow-up, 67.1% (n=249) and 68.7% (n=243) for 45 mg/kg/day q12h and 40 mg/kg/day q8h, respectively.

The incidence of diarrhea¹⁵ was significantly lower in patients in the q12h treatment group compared to

patients who received the q8h regimen (14.3% and 34.3%, respectively). In addition, the number of patients with either severe diarrhea or who were withdrawn with diarrhea was significantly lower in the q12h treatment group (3.1% and 7.6% for the q12h/10 day and q8h/10 day, respectively). In the q12h treatment group, 3 patients (1.0%) were withdrawn with an allergic reaction, while 1 patient (0.3%) in the q8h group was withdrawn for this reason. The number of patients with a candidal infection of the diaper area was 3.8% and 6.2% for the q12h and q8h groups, respectively.

It is not known if the finding of a statistically significant reduction in diarrhea with the oral suspensions dosed q12h, versus suspensions dosed q8h, can be extrapolated to the chewable tablets. The presence of mannitol in the chewable tablets may contribute to a different diarrhea profile. The q12h oral suspensions are sweetened with aspartame only.

15 Diarrhea was defined as either: (a) three or more watery or four or more loose/watery stools in one day; OR (b) two watery stools per day or three loose/watery stools per day for two consecutive days.

REFERENCES

1. National Committee for Clinical Laboratory Standards. Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria That Grow Aerobically - Third Edition. Approved Standard NCCLS Document M7-A3, Vol. 13, No. 25. NCCLS, Villanova, PA, Dec. 1993.
2. National Committee for Clinical Laboratory Standards. Performance Standard for Antimicrobial Disk Susceptibility Tests - Fifth Edition. Approved Standard NCCLS Document M2-A5, Vol. 13, No. 24. NCCLS, Villanova, PA, Dec. 1993.
3. 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.

CLINITEST® is a registered trademark of Miles, Inc.

CLINISTIX® is a registered trademark of Bayer Corporation.

07-2007

Manufactured in Austria by Sandoz GmbH
for Sandoz Inc., Princeton, NJ 08540

Repackaged by:

Rebel Distributors Corp.

Thousand Oaks, CA 91320

Principal Display Panel



AMOXICILLIN AND CLAVULANATE POTASSIUM

amoxicillin and clavulanate potassium powder, for suspension

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:21695-546(NDC:0781-6104)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Amoxicillin (UNII: 804826J2HU) (Amoxicillin - UNII:804826J2HU)	Amoxicillin	400 mg in 5 mL
Clavulanate Potassium (UNII: Q42OMW3AT8) (Clavulanic acid - UNII:23521W1S24)	Clavulanate Potassium	57 mg in 5 mL

Inactive Ingredients

Ingredient Name	Strength
ASPARTAME (UNII: Z0H242BBR1)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
HYPROMELLOSE 2208 (100 MPA.S) (UNII: B1QE5P712K)	
mannitol (UNII: 3OWL53L36A)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
succinic acid (UNII: AB6MNQ6J6L)	
XANTHAN GUM (UNII: TTV12P4NEE)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:21695-546-00	100 mL in 1 BOTTLE		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA065066	06/05/2002	

Labeler - Rebel Distributors Corp. (118802834)

Establishment

Name	Address	ID/FEI	Business Operations
Rebel Distributors Corp.		118802834	RELABEL, REPACK

Revised: 9/2010

Rebel Distributors Corp.