

MOXATAG- amoxicillin tablet, extended release
MiddleBrook Pharmaceuticals, Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION
MOXATAG™ (amoxicillin extended-release) Tablets

SPL UNCLASSIFIED SECTION

To reduce the development of drug-resistant bacteria and maintain the effectiveness of MOXATAG and other antibacterial drugs, MOXATAG should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria. (2)

INDICATIONS AND USAGE

MOXATAG is a penicillin-class antibacterial indicated for the treatment of tonsillitis and/or pharyngitis secondary to *Streptococcus pyogenes* in adults and pediatric patients 12 years or older. (1)

DOSAGE AND ADMINISTRATION

Tonsillitis and/or Pharyngitis: 775 mg once daily for 10 days with a meal.
Do not chew or crush tablet. (2)

DOSAGE FORMS AND STRENGTHS

Tablets: 775 mg (3)

CONTRAINDICATIONS

Patients with known serious hypersensitivity to amoxicillin or to other drugs in the same class or patients who have demonstrated anaphylactic reactions to beta-lactams (4)

WARNINGS AND PRECAUTIONS

- Serious and occasionally fatal hypersensitivity (anaphylactic) reactions have been reported in patients on penicillin therapy. Serious anaphylactic reactions require immediate emergency treatment with epinephrine. Oxygen, intravenous steroids, and airway management, including intubation, should also be administered as indicated. (5.1)
- *Clostridium difficile* associated diarrhea (ranging from mild diarrhea to fatal colitis): Evaluate if diarrhea occurs. (5.2)

ADVERSE REACTIONS

The most common drug-related adverse reactions (incidence ≥ 1.0 %) are vulvovaginal mycotic infection, diarrhea, nausea, vomiting and headache. (6.1)

DRUG INTERACTIONS

- Probenecid decreases the renal tubular secretion of amoxicillin. Concurrent use of amoxicillin and probenecid may result in increased and prolonged blood levels of amoxicillin. (7.1)

USE IN SPECIFIC POPULATIONS

- Pediatrics: The safety and effectiveness of MOXATAG in pediatric patients younger than 12 years has not been established. (8.4)
- Renal Impairment: MOXATAG has not been studied in patients with renal impairment; however, a reduction of amoxicillin dose is generally recommended for patients with severe renal impairment. Therefore, MOXATAG is not recommended for use in patients with severe renal impairment ($CrCl < 30$ mL/min) or patients on hemodialysis. (8.6)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 12/2008

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FULL PRESCRIBING INFORMATION

1. INDICATIONS AND USAGE

Tonsillitis and/or Pharyngitis

MOXATAG is a penicillin-class antibacterial indicated for the treatment of tonsillitis and/or pharyngitis secondary to *Streptococcus pyogenes* (*S. pyogenes*) in adults and pediatric patients 12 yrs and older.

To reduce the development of drug-resistant bacteria and maintain the effectiveness of MOXATAG and other antibacterial drugs, MOXATAG 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.

2. DOSAGE AND ADMINISTRATION

Tonsillitis and/or Pharyngitis

The recommended dose of MOXATAG is 775 mg once daily taken within 1 hour of finishing a meal for 10 days. The full 10-day course of therapy should be completed for effective treatment of tonsillitis and/or pharyngitis secondary to *S. pyogenes*.

Do not chew or crush tablet.

3. DOSAGE FORMS AND STRENGTHS

775 mg blue film-coated, oval-shaped tablets printed with "MB-111" on one side in black edible ink.

4. CONTRAINDICATIONS

MOXATAG is contraindicated in patients with known serious hypersensitivity to amoxicillin or to other drugs in the same class or patients who have demonstrated anaphylactic reactions to beta-lactams.

5. WARNINGS AND PRECAUTIONS

5.1 Anaphylaxis and Hypersensitivity Reactions

Serious and occasionally fatal hypersensitivity (anaphylactic) reactions have been reported in patients on penicillin therapy. Although anaphylaxis is more frequent following parenteral therapy, it has occurred in patients on oral penicillins. 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 MOXATAG, careful inquiry should be made concerning previous hypersensitivity reactions to penicillins, cephalosporins, or other allergens. If an allergic reaction occurs, MOXATAG should be discontinued and 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.

5.2 *Clostridium difficile* Associated Diarrhea (CDAD)

Clostridium difficile Associated Diarrhea (CDAD) has been reported with nearly all antibacterial agents, including amoxicillin, and may range in severity from mild diarrhea to fatal colitis. Treatment with antibacterial agents alters the normal flora of the colon leading to overgrowth of *C. difficile*. *C. difficile* produces toxins A and B which contribute to the development of CDAD. Hypertoxin producing strains of *C. difficile* cause increased morbidity and mortality, as these infections can be refractory to antimicrobial therapy and may require colectomy. CDAD must be considered in all patients who present with diarrhea following antibiotic use. Careful medical history is necessary since CDAD has been reported to occur over two months after the administration of antibacterial agents.

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

5.3 Superinfections

The possibility of superinfections with mycotic or bacterial pathogens should be kept in mind during therapy. If superinfections occur, amoxicillin should be discontinued and appropriate therapy instituted.

5.4 Mononucleosis Rash

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.

5.5 Development of Drug-Resistant Bacteria

Prescribing amoxicillin in the absence of proven or strongly suspected bacterial infection or treating prophylactically is unlikely to provide benefit to the patient and increases the risk of the development of drug-resistant bacteria.

5.6 False-Positive Urinary Glucose Tests

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, it is recommended that glucose tests based on enzymatic glucose oxidase reactions (such as Clinistix®) be used.

6. ADVERSE REACTIONS

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.

6.1 Clinical Study Experience

Tonsillitis and/or Pharyngitis

In a controlled Phase 3 trial, 302 adult and pediatric patients (≥ 12 years) were treated with MOXATAG 775 mg once-daily for 10 days and 306 adult and pediatric patients (≥ 12 years) were treated with penicillin VK 250 mg QID for 10 days.

In this clinical trial, the majority of treatment-emergent adverse reactions were of a mild and transient nature with similar frequency reported in both treatment groups. Discontinuation due to drug-related treatment-emergent adverse reactions occurred in 1.3 % of the MOXATAG-treated patients and 3.3 % of the penicillin VK-treated patients.

The most frequently reported adverse reactions ($\geq 1\%$) which were suspected or probably drug-related are shown in Table 1.

Table 1. Drug-Related Treatment-Emergent Adverse Reactions by System Organ Class Experienced by $\geq 1\%$ of Patients in Either Treatment Group – ITT/Safety Population

System Organ Class/Preferred Term*	Number (%) of patients	
	MOXATAG (N =302)	Pen VK (N = 306)
Patients with at least one drug-related treatment-emergent adverse event	32 (10.6)	45 (14.7)
Infections and infestations		
Vulvovaginal mycotic infection	6 (2.0)	8 (2.6)
Gastrointestinal disorders		
Diarrhea	5 (1.7)	6 (2.0)
Nausea	4 (1.3)	2 (0.7)
Vomiting	2 (0.7)	5 (1.6)
Abdominal pain	1 (0.3)	3 (1.0)
Nervous system disorders		

*Presented in decreasing order of frequency in the MOXATAG column within each system organ class.

6.2 Adverse Reactions for Other Amoxicillin Products

The following adverse reactions have been reported for other products containing amoxicillin:

Infections and Infestations: Mucocutaneous candidiasis.

Gastrointestinal: Nausea, vomiting, diarrhea, and hemorrhagic/ pseudomembranous colitis.

Onset of pseudomembranous colitis symptoms may occur during or after antibiotic treatment.

Hypersensitivity Reactions: Anaphylaxis (See Warnings and Precautions)

Serum sickness like reactions, erythematous maculopapular rashes, erythema multiforme, Stevens-Johnson Syndrome, exfoliative dermatitis, toxic epidermal necrolysis, acute generalized exanthematous pustulosis, hypersensitivity vasculitis and urticaria have been reported. (NOTE: These hypersensitivity reactions may be controlled with antihistamines and, if necessary, systemic corticosteroids. Whenever such reactions occur, amoxicillin should be discontinued unless, in the opinion of the physician, the condition being treated is life-threatening and amenable only to amoxicillin therapy.)

Liver: A moderate rise in AST (SGOT) and/or ALT (SGPT) has been noted, but the significance of this finding is unknown. Hepatic dysfunction including cholestatic jaundice, hepatic cholestasis and acute cytolytic hepatitis have 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.

Central Nervous System: Reversible hyperactivity, agitation, anxiety, insomnia, confusion, convulsions, behavioral changes, and/or dizziness have been reported rarely.

Renal: Crystalluria has also been reported

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

7. DRUG INTERACTIONS

7.1 Probenecid

Probenecid decreases the renal tubular secretion of amoxicillin. Concurrent use of MOXATAG and probenecid may result in increased and prolonged blood levels of amoxicillin. The clinical relevance of this finding has not been evaluated.

7.2 Other Antibiotics

Chloramphenicol, macrolides, sulfonamides, and tetracyclines may interfere with the bactericidal effects of penicillin. This has been demonstrated *in vitro*; however, the clinical significance of this interaction is not well documented.

7.3 Oral Contraceptives

As with other antibiotics, amoxicillin may affect the gut flora, leading to lower estrogen reabsorption and potentially resulting in reduced efficacy of combined oral estrogen/progesterone contraceptives.

8. USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Teratogenic Effects. Pregnancy Category B. Reproduction studies have been performed in mice and rats at doses up to 2000 mg/kg (12.5 and 25 times the human dose in mg/m²) and have revealed no evidence of impaired fertility or harm to the fetus due to amoxicillin. 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. Studies in guinea pigs showed that intravenous administration of ampicillin slightly decreased the uterine tone and frequency of contractions but moderately increased the height and duration of contractions. However, it is not known whether use of amoxicillin 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.

8.3 Nursing Mothers

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

8.4 Pediatric Use

The safety and effectiveness of MOXATAG in pediatric patients 12 years of age and older have been established based on results of a clinical trial that included adults and pediatric patients (12 years or older). [see *Clinical Studies* (14)] Sixty three (21 %) of the study participants were pediatric patients 12 years of age or older. There were no significant differences in treatment response or adverse reactions from adults.

The safety and effectiveness of MOXATAG in pediatric patients younger than 12 years has not been established.

8.5 Geriatric Use

Clinical studies with MOXATAG did not include a sufficient number of patients aged 65 years and over to determine whether they respond differently from younger patients. Other reported clinical experiences with amoxicillin have not yet identified differences in responses between the elderly and younger patients, but a 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 Renal Impairment

MOXATAG has not been studied in patients with renal impairment; however, a reduction of amoxicillin dose is generally recommended for patients with severe renal impairment. Therefore, MOXATAG is not recommended for use in patients with severe renal impairment (CrCl <30 mL/min) or patients on hemodialysis.

10. OVERDOSAGE

In case of overdose, discontinue medication, treat symptomatically, and institute supportive measures as required. If the overdose is very recent and there is no contraindication, an attempt at emesis or other

means of removal of drug from the stomach may be performed. A prospective study of 51 pediatric patients at a poison-control center suggested that overdosages of less than 250 mg/kg of amoxicillin are not associated with significant clinical symptoms and do not require gastric emptying.

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

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

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

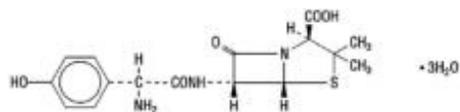
For additional information about overdose treatment, call a poison control center (1-800-222-1222).

11. DESCRIPTION

MOXATAG (amoxicillin extended-release) tablets for oral administration are provided as blue film-coated tablets that contain 775 mg of amoxicillin as the trihydrate and are printed with "MB-111" on one side in black edible ink.

Amoxicillin is a semi-synthetic antibiotic, an analog of ampicillin, with bactericidal activity against gram-positive and gram-negative microorganisms.

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. Its chemical name is amoxicillin. It may be represented structurally as:



The amoxicillin molecular formula is $C_{16}H_{19}N_3O_5S \cdot 3H_2O$, and the molecular weight is 419.45.

MOXATAG is an extended release tablet formulation consisting of three components, one immediate-release and two delayed-release, each containing amoxicillin. The three components are combined in a specific ratio to prolong the release of amoxicillin from MOXATAG compared to immediate-release amoxicillin.

Each tablet contains amoxicillin, crospovidone, FD&C Blue #2 lake, hypromellose, hypromellose acetate succinate, iron oxide, magnesium stearate, methacrylic acid copolymer, microcrystalline cellulose, polyethylene glycol 400, polyoxyl 35 castor oil, shellac, colloidal silicon dioxide, sodium lauryl sulfate, talc, titanium dioxide, and triethyl citrate.

12. CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Amoxicillin is an antibacterial drug. [see *Clinical Pharmacology* (12.4)]

12.3 Pharmacokinetics

MOXATAG is an extended-release formulation of amoxicillin intended to provide once-daily dosing. Following the administration of MOXATAG with a low-fat meal in healthy subjects, mean amoxicillin $AUC_{0-\infty}$, C_{max} , and T_{max} values were 29.8 $\mu\text{g}\cdot\text{h/mL}$, 6.6 $\mu\text{g/mL}$ and 3.1 hours, respectively. The mean

plasma concentration-time curve is shown below in Figure 1.

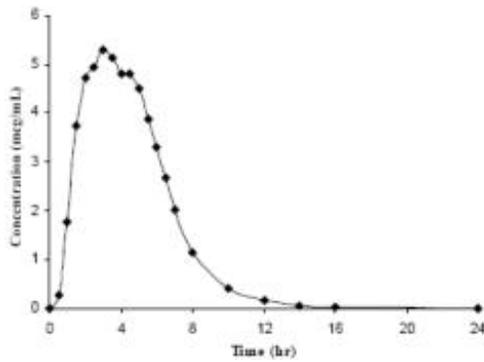


Figure 1. Mean Amoxicillin Plasma Concentrations Following a Single Oral Dose of MOXATAG With a Low-Fat Meal in Healthy Subjects (N=20)

Administration of MOXATAG with food decreases the rate, but not the extent of amoxicillin absorption. Compared to immediate-release amoxicillin suspension, the rate of amoxicillin absorption following administration of MOXATAG was slower, resulting in a lower C_{max} and longer T_{max} . Total amoxicillin exposure (AUC) achieved with MOXATAG is similar to that observed after oral administration of a comparable dose of immediate-release amoxicillin suspension.

Amoxicillin diffuses readily into most body tissues and fluids, with the exception of brain and spinal fluid, except when meninges are inflamed. Amoxicillin is approximately 20% protein bound in human serum.

Amoxicillin is primarily cleared by renal excretion. Approximately 60% of an oral dose of immediate-release amoxicillin is eliminated unchanged in urine. The half-life of amoxicillin after oral administration of MOXATAG is approximately 1.5 hours, similar to that of immediate-release amoxicillin. No accumulation of amoxicillin was observed after once-daily dosing of 775 mg of MOXATAG for 7 days.

Drug Interactions

In a study of healthy adult subjects, amoxicillin AUC was similar whereas C_{max} increased approximately 35% following the administration of lansoprazole with MOXATAG given with food.

Probenecid decreases the renal tubular secretion of amoxicillin. Concurrent use of MOXATAG and probenecid may result in increased and prolonged blood levels of amoxicillin. The clinical relevance of this finding has not been evaluated.

12.4 Microbiology

Amoxicillin is a semi-synthetic antimicrobial belonging to the penicillin class of antimicrobials with activity against gram-positive bacteria.

Mechanism of Action

Amoxicillin exerts its bactericidal action against susceptible organisms during the stage of multiplication. It acts through the inhibition of biosynthesis of cell wall mucopeptide.

Mechanism of Resistance

To date there are no known mechanisms of resistance to penicillin or amoxicillin in *Streptococcus pyogenes*.

MOXATAG has been shown to be active *in vitro* against isolates of the microorganism *S. pyogenes* and in clinical infections as described in the INDICATIONS AND USAGE section.

Facultative Gram-Positive Bacteria:

Streptococcus pyogenes

The following *in vitro* data are available, but their clinical significance is unknown. At least 90% of the following microorganisms exhibit an *in vitro* minimum inhibitory concentration (MIC) less than or equal to the susceptibility breakpoint of amoxicillin (as determined by susceptibility tests using the class representative agents penicillin or ampicillin).

Facultative Gram-Positive Bacteria:

Streptococcus spp. (Group B, C, and G; β -hemolytic)

Susceptibility Test Methods:

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

Susceptibility testing of penicillins (such as amoxicillin) and other β -lactams approved by FDA for the treatment of Group A streptococcus (*S. pyogenes*) is not routinely necessary for clinical purposes. Isolates of Group A streptococcus resistant to amoxicillin have not been recognized and therefore all isolates can be considered susceptible to amoxicillin. However, susceptibility tests can be conducted using dilution or diffusion techniques employing penicillin or ampicillin to predict susceptibility to amoxicillin.

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^{1,3}. Standardized procedures are based on a dilution method (broth or agar) or equivalent with standardized inoculum concentrations and standardized concentrations of penicillin or ampicillin. The susceptibility of Group A streptococcus to penicillin or amoxicillin should be interpreted according to the criteria in Table 2.

Diffusion Technique

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 a standardized inoculum concentration. This procedure uses paper disks impregnated with 10 units penicillin or 10 mcg ampicillin to test the susceptibility of *S. pyogenes* to penicillin or amoxicillin. Reports from the laboratory providing results of the standard single-disk susceptibility test should be interpreted according to the criteria in Table 2.

Table 2. Susceptibility Test Results Interpretive Criteria for Beta-Hemolytic Streptococci including *Streptococcus pyogenes*

Antimicrobial	Minimum Inhibitory Concentration (mcg/mL)	Disk Diffusion (zone diameter in mm)
Penicillin	≤ 0.12 = Susceptible	≥ 24 = Susceptible
Ampicillin	≤ 0.25 = Susceptible	≥ 24 = Susceptible

The current absence of data on resistant isolates precludes defining any categories other than “Susceptible”. Isolates yielding results suggestive of a “nonsusceptible” category should be retested, and if the result is confirmed, the isolate should be submitted to a reference laboratory for further testing.

Quality Control

Standardized susceptibility test procedures require the use of laboratory controls to monitor and ensure the accuracy and precision of the supplies and reagents used in the assay, and the techniques of the individuals performing the test. Standard penicillin or ampicillin powders should provide the MIC ranges provided in Table 3. For the disk diffusion technique using the 10 unit penicillin disk or 10 µg ampicillin disk the criteria in Table 3 should be achieved.

Table 3. Acceptable Quality Control Ranges for Susceptibility Testing

QC Organism	Antimicrobial	Minimum Inhibitory Concentration (mcg/mL)	Disk Diffusion (zone diameter in mm)
<i>Streptococcus pneumoniae</i>	Penicillin	0.25 – 1	24 – 30
ATCC 49619	Ampicillin	0.06 – 0.25	30 - 36

ATCC = American Type Culture Collection

13. NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term studies in animals have not been performed to evaluate carcinogenic potential. Studies to detect mutagenic potential of amoxicillin alone have not been conducted; however, the following information is available from tests on a 4:1 mixture of amoxicillin and potassium clavulanate (*Augmentin*). *Augmentin* was non-mutagenic in the Ames bacterial mutation assay, and the yeast gene conversion assay. *Augmentin* 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. *Augmentin* 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. In a multi-generation reproduction study in rats, no impairment of fertility or other adverse reproductive effects were seen at doses up to 500 mg/kg (approximately 6 times the human dose in mg/m²).

14. CLINICAL STUDIES

In a randomized, parallel-group, multi-center, double-blind, double-dummy study in adults and pediatrics (age ≥ 12 years) with tonsillitis and/or pharyngitis secondary to *S. pyogenes*, MOXATAG 775 mg QD for 10 days was non-inferior to penicillin VK 250 mg QID for 10 days.

Using strict evaluability and microbiologic response criteria 4-8 days post-therapy, the following bacteriological eradication rates and statistical outcomes in the per-protocol (PPb) and modified intent-to-treat (mITT) populations were obtained (Table 4). The mITT population included all randomized patients with a positive throat culture for *S. pyogenes* at baseline. The PPb population included mITT patients who had post-therapy cultures, were compliant with treatment, and didn't have major protocol violations.

Table 4. Bacteriological Eradication Rates in Patients with Tonsillitis and/or Pharyngitis

Study Population	MOXATAG	Penicillin VK	Rate Difference 95% CI (%)
PPb	198/233 (85.0%)	191/229 (83.4%)	1.6 (-5.1, 8.2)
mITT	204/256 (79.7%)	206/264 (78.0%)	1.7 (-5.4, 8.7)

15. REFERENCES

1. Clinical and Laboratory Standards Institute (CLSI). Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria That Grow Aerobically; Approved Standard—7th ed Clinical and Laboratory Standards Institute document M7-A7. Clinical and Laboratory Standards Institute, 940 West Valley Road, Suite 1400, Wayne, Pennsylvania 19087-1898 USA, 2006.
2. CLSI. Performance Standards for Antimicrobial Disk Susceptibility Tests; Approved Standard—9th ed. CLSI document M2-A9 CLSI, Wayne, PA 19087-1898 2006.
3. CLSI. Performance Standards for Antimicrobial Susceptibility Testing; 17th Informational Supplement. CLSI document M100-S17 CLSI, Wayne, PA 19087-1898, 2007.

16. HOW SUPPLIED/STORAGE AND HANDLING

MOXATAG tablets for oral administration are provided as blue film-coated, oval-shaped tablets that contain 775 mg of amoxicillin as the trihydrate. The tablets are printed with “MB-111” on one side in black edible ink. MOXATAG is packaged in bottles and blister cards as follows:

- Bottles of 30 NDC 11042-142-03
- 10 Tablet Card
(1 tablet per blister cavity) NDC 11042-142-02

Storage

Store at 25° C (77° F); excursions permitted to 15–30° C (59–86° F) [See USP Controlled Room Temperature.]

17. PATIENT COUNSELING INFORMATION

17.1 Instructions for Administration of MOXATAG

Patients should be informed that the recommended dose of MOXATAG is 775 mg once daily taken with food for 10 days. MOXATAG should be taken within 1 hour of finishing a meal and at approximately the same time every day. The full 10 day course of therapy should be completed for effective treatment of tonsillitis and/or pharyngitis secondary to *S. pyogenes*. Patients should be instructed not to chew or crush the tablet. No other forms of immediate-release amoxicillin can be substituted for MOXATAG.

17.2 Hypersensitivity Reactions

Patients should be informed that serious and occasionally fatal hypersensitivity (anaphylactic) reactions have been reported while on penicillin therapy. Patients should be questioned regarding any hypersensitivity reactions to penicillins, cephalosporins or other allergens. Whenever such reactions occur, the patient should be instructed to contact their physician immediately. Serious anaphylactic reactions require immediate emergency treatment with epinephrine. Oxygen, intravenous steroids, and airway management, including intubation, should also be administered as indicated.

17.3 *Clostridium difficile* Associated Diarrhea

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

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CLINITEST is a registered trademark of Miles, Inc.

CLINISTIX is a registered trademark of Bayer Corporation.

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Manufactured in Clonmel, Ireland by Stada Production Ireland for MiddleBrook Pharmaceuticals, Inc., Germantown, Maryland 20876

U.S. Patents 6,544,555; 6,669,948; 6,723,341

Issue Date 06/08

PC2049L/1

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MOXATAG

amoxicillin tablet, extended release

Product Information

Product Type		Item Code (Source)	NDC:11042-142
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
amoxicillin (UNII: 804826J2HU) (amoxicillin - UNII:804826J2HU)		775 mg

Inactive Ingredients

Ingredient Name	Strength
Crospovidone ()	
FD&C Blue #2 lake ()	
hypromellose ()	
hypromellose acetate succinate ()	
iron oxide ()	
magnesium stearate (UNII: 70097M6I30)	
methacrylic acid copolymer ()	
microcrystalline cellulose (UNII: OP1R32D61U)	
polyethylene glycol 400 ()	
polyoxyl 35 castor oil ()	
shellac ()	
colloidal silicon dioxide (UNII: ETJ7Z6XBU4)	
sodium lauryl sulfate (UNII: 368GB5141J)	
talc (UNII: 7SEV7J4RIU)	
titanium dioxide (UNII: 15FIX9V2JP)	
triethyl citrate (UNII: 8Z96QXD6UM)	

Product Characteristics

Color	blue (BLUE)	Score	no score
Shape	OVAL (OVAL)	Size	22mm
Flavor		Imprint Code	MB-111
Contains			
Coating	true	Symbol	false

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:11042-142-03	30 in 1 BOTTLE		
2	NDC:11042-142-02	10 in 1 BLISTER PACK		

Labeler - MiddleBrook Pharmaceuticals, Inc.

Revised: 12/2008

MiddleBrook Pharmaceuticals, Inc.