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# 1 Classification of the Antibiotics

## **β-Lactam antibiotics**

### **Benzylpenicillins**

Penicillin G  
(benzylpenicillin sodium, procaine benzylpenicillin, benzathine penicillin)

### **Phenoxy- penicillins (oral penicillins)**

Penicillin V  
Propicillin

### **Penicillinase- resistant penicil- lins (anti-staphylo- coccal penicillins)**

Oxacillin  
Dicloxacillin  
Flucloxacillin

### **Aminobenzyl- penicillins**

Ampicillin  
Amoxicillin

### **Ureidopenicillins (broad-spectrum penicillins)**

Mezlocillin  
Piperacillin

### **β-Lactam/ β-lactamase inhibitors**

Ampicillin/  
sulbactam  
Amoxicillin/  
clavulanate  
Piperacillin/  
tazobactam  
Sulbactam in free  
combinations

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**Cephalosporins  
(first generation)**

Cefazolin  
Cefalexin (oral)  
Cefadroxil (oral)

**Cephalosporins  
(second generation)**

Cefuroxime  
Cefotiam  
Cefuroxime axetil  
Cefaclor (oral)  
Loracarbef

**Cephalosporins  
(third and fourth generation)**

Cefotaxime  
Ceftriaxone  
Ceftazidime  
Cefepime  
Cefixime (oral)  
Cefpodoxime proxetil (oral)  
Ceftibuten (oral)

**Monobactams**

Aztreonam

**Carbapenems**

Imipenem  
Meropenem  
Ertapenem  
Doripenem

 **$\beta$ -Lactamase  
inhibitors**

Clavulanic acid  
Sulbactam  
Tazobactam

**Other substances****Aminoglycosides**

Streptomycin  
Gentamicin  
Tobramycin  
Netilmicin  
Amikacin

**Tetracyclines**

Tetracycline  
Doxycycline  
Minocycline

**Quinolones**

Group I:  
Norfloxacin  
  
Group II:  
Enoxacin  
Ofloxacin  
Ciprofloxacin  
  
Group III:  
Levofloxacin  
  
Group IV:  
Moxifloxacin

- I: Indications essentially limited to UTI
- II: Widely indicated
- III: Improved activity against Gram-positive and atypical pathogens
- IV: Further enhanced activity against Gram-positive and atypical pathogens, also against anaerobic bacteria

**Lincosamides**

Clindamycin

**Azol derivatives**

Miconazole  
Ketoconazole  
Fluconazole  
Itraconazole  
Voriconazole  
Posaconazole

**Nitroimidazoles**

Metronidazole

**Glycopeptide antibiotics**

Vancomycin  
Teicoplanin  
Telavancin

**Macrolides**

Erythromycin  
Spiramycin  
Roxithromycin  
Clarithromycin  
Azithromycin

**Polyenes**

Amphotericin B  
Nystatin

**Glycylcyclines**

Tigecycline

**Echinocandins**

Caspofungin  
Anidulafungin  
Micafungin

**Streptogramins**

Quinupristin/  
dalfopristin

**Ketolides**

Telithromycin

**Oxazolidinones**

Linezolid

**Lipopeptides**

Daptomycin

**Epoxides**

Fosfomycin

**Polymyxins**

Colistin  
(polymyxin E)  
Polymyxin B

**Ansamycins**

Rifampicin

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