

Organism	IV Cephalosporins									Oral Cephalosporins							
	1st Gen	2nd Gen			3rd/4th Generation					1st Gen	2nd Gen		3rd Gen				
	Cefazolin	Cefotetan	Cefoxitin	Cefuroxime	Cefotaxime	Ceftizoxime	Ceftriaxone	Ceftazidime	Cefepime	Cefadroxil	Cephalexin	Cefaclor/Loracarbef	Cefprozil	Cefuroxime axetil	Cefixime	Certibuten	Cefpodox/Ceftinir/Ceftiofen
<b>Gram Positive</b>																	
Strep, Group A,B,C,G	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Step. Pneumoniae	+	+	+	+	+	+	+	1	+	+	+	+	+	+	+	-	+
Viridans strep	+	+	+	+	+	+	+	1	+	+	+	+	0	+	+	0	+
E. faecalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Staph. Aureus (MSSA)</b>	+	+	+	+	+	+	+	-	+	+	+	+	+	+	0	0	+
<b>Staph. Aureus (MRSA)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Staph. Epidermidis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-
C. jeikeium	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	
<b>L. monocytogenes</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Gram Negative</b>																	
N. gonorrhoeae	+	-	-	-	-	-	+	-	+	0	0	-	-	-	+	-	+
N. meningitidis	0	-	-	+	+	-	+	-	+	0	0	-	-	-	-	-	
M. catarrhalis	-	+	+	+	+	+	+	+	+	0	0	-	+	+	+	+	+
H. influenzae	+	+	+	+	+	+	+	+	+		0	+	+	+	+	+	+
<b>E. coli</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>
Klebsiella sp.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Enterobacter sp.	0	-	0	-	+	+	+	+	+	0	0	0	0	0	0	-	0
Serratia sp.	0	+	0	0	+	+	+	+	+	0	0	0	0	0	-	-	0
Salmonella sp.					+	+	+	+	+	0	0				+	+	+
Shigella sp.					+	+	+	+	+	0	0				+	+	+
Proteus mirabilis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Proteus vulgaris	0	+	+	+	+	+	+	+	+	0	0	0	0	0	+	+	-
Providencia sp.	0	+	+	0	+	+	+	+	+	0	0	0	0	+	+	+	
Morganella sp.	0	+	+	-	+	+	+	+	+	0	0	0	0	-	0	0	0
C. freundii	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0
C. diversus	0	-	-	-	+	+	+	+	+	0	0	0	0			+	
Citrobacter sp.	0	-	-	-	+	+	+	+	+		0	-	0	-	+	+	+
Aeromonas sp.	0	+	-	+	+	+	+	+	+						+	+	
Acinetobacter sp.	0	0	0	0	+	+	+	+	-	0	0	0	0	0	0	0	
<b>Ps. Aeruginosa</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	-	-	-	+	+	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
B. (Ps.) cepacia	0	0	0	0	-	-	-	+	-	0	0	0	0	0			
S. (X.) maltophilia	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	
Y. enterocolitica	0	-	-	-	+	+	+	-	+						+	+	
<b>Legionella sp.</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
P. multocida						+	+				0				+		+
H. ducreyi			+		+	+	+	+							+		
<b>ANAEROBES:</b>																	
Actinomyces						+	+										
<b>Bacteroides fragilis</b>	<b>0</b>	<b>2</b>	<b>+</b>	<b>0</b>	<b>0</b>	-	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
P. melaninogenica		+	+	+	+	+	-	+	0			+	+	+	+		
<b>Clostridium difficile</b>			<b>0</b>		<b>0</b>	<b>0</b>			<b>0</b>								
<b>Clostridium (NOT difficile)</b>		+	+	+	+	+	+	+					+	+	<b>0</b>		
Peptostreptococcus sp.		+	+	+	+	+	+	+	+	+	+	+	+	+	+		

+ = effective or > 60% susceptibility, - = clinical trials lacking or 30-60% susceptible, 0 = not effective or < 30% susceptibility, blank = data in not available

1 Ceftaz is 8-16 times less active than cefotax/ceftriax. Effective only vs Pen-sens. Strains. Oral cefuroxime, cefprozil, cefpodoxime most active in vitro vs S. pneumo.

2 Cefotetan is less active against B. ovatus, B. distans, B. thetaiotamicon.