

Table 1.7 Characteristics of ESBL and AmpC β -lactamases

	ESBL	AmpC β-lactamase
Bush-Jacoby-Medeiro functional class	2be	1
Ambler molecular classification	A	C
Plasmid mediated	Almost always (responsible for the spread)	Most are chromosomal plasmid increasingly reported
β -lactamase inhibitor	Inhibited	Not inhibited
Cephameycins - cefoxitin - cefmetazole	Not hydrolysed	Hydrolysed
Oxymino- β -lactams - cefotaxime - ceftriaxone - ceftazidime	Hydrolysed	Hydrolysed
Cefepime	Variable	Not hydrolysed
Carbapenem	Not hydrolysed	Not hydrolysed
Examples	TEM, SHV and CTX-M	<i>Enterobacter</i> , <i>Citrobacter</i> and <i>Serratia</i> possess inducible AmpC β -lactamase encoded in their chromosomes