

Dosages

EUCAST Clinical Breakpoint Tables v. 8.1, valid from 2018-05-15

EUCAST breakpoints are based on the following dosages (see section 8 in Rationale Documents).

Penicillins	Standard dose	High dose	Special situations
Benzylpenicillin	0.6 g x 4 iv	1.2 g x 4-6 iv	Meningitis: For a dose of 2.4 g x 6 iv, isolates with MIC ≤ 0.06 mg/L are susceptible. Pneumonia caused by <i>S. pneumoniae</i>: breakpoints are related to dosage: For a dose of 1.2 g x 4 iv, isolates with MIC ≤ 0.5 mg/L are susceptible. For a dose of 2.4 g x 4 iv or 1.2 g x 6 iv, isolates with MIC ≤ 1 mg/L are susceptible. For a dose of 2.4 g x 6 iv, isolates with MIC ≤ 2 mg/L are susceptible.
Ampicillin	1 g x 3-4 iv depending on species and/or infection type	2 g x 3-4 iv depending on species and/or infection type	Meningitis: 2 g x 6 iv
Ampicillin-sulbactam	3 g x 3 iv	3 g x 4 iv	
Amoxicillin	0.5 g x 3 iv Oral dosage under discussion	2 g x 6 iv Oral dosage under discussion	Meningitis: 2 g x 6 iv
Amoxicillin-clavulanic acid	(1 g amoxicillin + 0.2 g clavulanic acid) x 3 iv Oral dosage under discussion	(2 g amoxicillin + 0.2 g clavulanic acid) x 3 iv Oral dosage under discussion	
Piperacillin	4 g x 3 iv	4 g x 4 iv	<i>Pseudomonas</i> spp.: High dose only
Piperacillin-tazobactam	(4 g piperacillin + 0.5 g tazobactam) x 3 iv	(4 g piperacillin + 0.5 g tazobactam) x 4 iv	<i>Pseudomonas</i> spp.: High dose only
Ticarcillin	3 g x 4 iv	3 g x 6 iv	<i>Pseudomonas</i> spp.: High dose only
Ticarcillin-clavulanic acid	(3 g ticarcillin + 0.1 g clavulanic acid) x 4 iv	(3 g ticarcillin + 0.1 g clavulanic acid) x 6 iv	<i>Pseudomonas</i> spp.: High dose only
Phenoxymethylpenicillin	0.5-2 g x 3-4 oral depending on species and/or infection type	None	
Oxacillin	Clinical breakpoints not available	Clinical breakpoints not available	
Cloxacillin	0.5 g x 4 oral or 1 g x 4 iv	1 g x 4 oral or 2 g x 6 iv	
Dicloxacillin	0.5-1 g x 4 oral or 1 g x 4 iv	2 g x 4 oral or 2 g x 6 iv	
Flucloxacillin	1 g x 3 oral or 2 g x 4 iv	1 g x 4 oral or 2 g x 6 iv	
Mecillinam	0.2 g x 3 oral	0.4 g x 3 oral	

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Cephalosporins	Standard dose	High dose	Special situations
Cefaclor	0.25-1 g x 3 oral depending on species and/or infection type	None	<i>Staphylococcus</i> spp.: Minimum dose 0.5 g x 3
Cefadroxil	0.5-1 g x 2 oral depending on species and/or infection type	None	
Cefalexin	0.25-1 g x 2-3 oral depending on species and/or infection type	None	
Cefazolin	1-2 g x 3 iv depending on species and/or infection type	None	
Cefepime	2 g x 2 iv	2 g x 3 iv	<i>Pseudomonas</i> spp.: High dose only
Cefixime	0.2-0.4 g x 2 oral	None	Gonorrhoea: 0.4 g oral as a single dose
Cefotaxime	1 g x 3 iv	2 g x 3 iv	Meningitis: 2 g x 4 iv Gonorrhoea: 0.5 g im as a single dose
Cefpodoxime	0.1-0.2 g x 2 oral depending on species and/or infection type	None	
Ceftaroline	0.6 g x 2 iv over 1 hour	0.6 g x 3 iv over 2 hours	<i>S. aureus</i> in complicated skin and skin structure infections: There is some PK-PD evidence to suggest that isolates with MICs of 4 mg/L could be treated with high dose.
Ceftazidime	1 g x 3 iv	2 g x 3 iv	<i>Pseudomonas</i> spp.: High dose only
Ceftazidime-avibactam	(2 g ceftazidime + 0.5 g avibactam) x 3 over 2 hours	None	
Ceftibuten	0.4 g x 1 oral	None	
Ceftobiprole	0.5 g x 3 iv over 2 hours	None	
Ceftolozane-tazobactam	(1 g ceftolozane + 0.5 g tazobactam) x 3 iv over 1 hour	Under evaluation	
Ceftriaxone	1 g x 1 iv	2 g x 1 iv	Meningitis: 4 g x 1 iv Gonorrhoea: 0.5 g im as a single dose
Cefuroxime iv	0.75 g x 3 iv	1.5 g x 3 iv	<i>E. coli</i> , <i>Klebsiella</i> spp., <i>P. mirabilis</i> : High dose only
Cefuroxime oral	0.25-0.5 g x 2 oral depending on species and/or infection type	None	

Carbapenems	Standard dose	High dose	Special situations
Doripenem	0.5 g x 3 iv over 1 hour	1 g x 3 iv over 4 hours	<i>Pseudomonas</i> spp.: High dose only <i>Acinetobacter</i> spp.: High dose only
Ertapenem	1 g x 1 iv over 30 minutes	None	
Imipenem	0.5 g x 4 iv over 30 minutes	1 g x 4 iv over 30 minutes	<i>Pseudomonas</i> spp.: High dose only <i>Acinetobacter</i> spp.: High dose only
Meropenem	1 g x 3 iv over 30 minutes	2 g x 3 iv over 30 minutes	Meningitis: 2 g x 3 iv over 30 minutes

Monobactams	Standard dose	High dose	Special situations
Aztreonam	1 g x 3 iv	2 g x 4 iv	<i>Pseudomonas</i> spp.: High dose only

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Fluoroquinolones	Standard dose	High dose	Special situations
Ciprofloxacin	0.5 g x 2 oral or 0.4 g x 2 iv	0.75 g x 2 oral or 0.4 g x 3 iv	<i>Pseudomonas</i> spp.: High dose only <i>Acinetobacter</i> spp.: High dose only <i>Staphylococcus</i> spp.: High dose only Gonorrhoea: 0.5 g oral as a single dose
Levofloxacin	0.5 g x 1 oral or 0.5 g x 1 iv	0.5 g x 2 oral or 0.5 g x 2 iv	<i>Pseudomonas</i> spp.: High dose only <i>Acinetobacter</i> spp.: High dose only. <i>S. pneumoniae</i> : High dose only
Moxifloxacin	0.4 g x 1 oral or 0.4 g x 1 iv	None	
Norfloxacin	0.4 g x 2 oral	None	
Ofloxacin	0.2 g x 2 oral or 0.2 g x 2 iv	0.4 g x 2 oral or 0.4 g x 2 iv	<i>Staphylococcus</i> spp.: High dose only

Aminoglycosides	Standard dose	High dose	Special situations
Amikacin	20 mg/kg x 1 iv	30 mg/kg x 1 iv	Enterobacteriaceae: High dose only <i>Pseudomonas</i> spp.: High dose only <i>Acinetobacter</i> spp.: High dose only
Gentamicin	5 mg/kg x 1 iv	7 mg/kg x 1 iv	Enterobacteriaceae: High dose only <i>Pseudomonas</i> spp.: High dose only <i>Acinetobacter</i> spp.: High dose only
Netilmicin	5 mg/kg x 1 iv	7 mg/kg x 1 iv	Enterobacteriaceae: High dose only <i>Pseudomonas</i> spp.: High dose only <i>Acinetobacter</i> spp.: High dose only
Tobramycin	5 mg/kg x 1 iv	7 mg/kg x 1 iv	Enterobacteriaceae: High dose only <i>Pseudomonas</i> spp.: High dose only <i>Acinetobacter</i> spp.: High dose only

Glycopeptides and lipoglycopeptides	Standard dose	High dose	Special situations
Dalbavancin	1 g x 1 iv over 30 minutes on day 1 If needed, 0.5 g x 1 iv over 30 minutes on day 8	None	
Oritavancin	1.2 g x 1 (single dose) iv over 3 hours	None	
Teicoplanin	0.4 g x 1 iv	0.8 g x 1 iv or 0.4 g x 2 iv	
Telavancin	10 mg/kg x 1 iv over 1 hour	None	
Vancomycin	0.5 g x 4 iv or 1 g x 2 iv or 2 g x 1 by continuous infusion	None	

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Macrolides, lincosamides and streptogramins	Standard dose	High dose	Special situations
Azithromycin	0.5 g x 1 oral or 0.5 g x 1 iv	None	Gonorrhoea: 2 g oral as a single dose
Clarithromycin	0.25 g x 2 oral	0.5 g x 2 oral	
Erythromycin	0.5 g x 2-4 oral or 0.5 g x 2-4 iv	1 g x 4 oral or 1 g x 4 iv	
Roxithromycin	0.15 g x 2 oral	None	
Telithromycin	0.8 g x 1 oral	None	
Clindamycin	0.3 g x 2 oral or 0.6 g x 3 iv	0.3 g x 4 oral or 1.2 g x 2 iv	
Quinupristin-dalfopristin	7.5 mg/kg x 2 iv	7.5 mg/kg x 3 iv	

Tetracyclines	Standard dose	High dose	Special situations
Doxycycline	0.1 g x 1 oral	0.2 g x 1 oral	
Minocycline	0.1 g x 2 oral	None	
Tetracycline	0.25 g x 4 oral	0.5 g x 4 oral	
Tigecycline	0.1 g loading dose followed by 50 mg x 2 iv	None	

Oxazolidinones	Standard dose	High dose	Special situations
Linezolid	0.6 g x 2 oral or 0.6 g x 2 iv	None	
Tedizolid	0.2 g x 1 oral	None	

Miscellaneous agents	Standard dose	High dose	Special situations
Chloramphenicol	1 g x 4 oral or 1 g x 4 iv	2 g x 4 oral or 2 g x 4 iv	
Colistin	3 MU x 3 iv with a loading dose of 9 MU	None	
Daptomycin	0.25 g x 1 iv	0.5 g x 1 iv	
Fosfomycin iv	4 g x 3 iv	8 g x 3 iv	
Fosfomycin oral	3 g x 1 oral as a single dose	None	
Fusidic acid	0.5 g x 2 oral or 0.5 g x 2 iv	0.5 g x 3 oral or 0.5 g x 3 iv	
Metronidazole	0.4 g x 3 oral or 0.4 g x 3 iv	0.5 g x 3 oral or 0.5 g x 3 iv	
Nitrofurantoin	50 mg x 3 oral	0.1 g x 4 oral	
Nitroxoline	0.25 g x 3 oral	None	
Rifampicin	0.6 g x 1 oral or 0.6 g x 1 iv	0.6 g x 2 oral or 0.6 g x 2 iv	
Spectinomycin	2 g x 1 im	None	Gonorrhoea: 2 g im as a single dose
Trimethoprim	0.16 g x 2 oral	None	
Trimethoprim-sulfamethoxazole	(0.16 g trimethoprim + 0.8 g sulfa) x 2 oral or (0.16 g trimethoprim + 0.8 g sulfa) x 2 iv	(0.24 g trimethoprim + 1.2 g sulfa) x 2 oral or (0.24 g trimethoprim + 1.2 g sulfa) x 2 iv	<i>Stenotrophomonas maltophilia</i> : High dose only