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- The present **Antibiotic Disc Interpretative Criteria and Quality Control** table does not replace the official documents by CLSI and EUCAST.
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## Clinical

Antibiotic	CODE	µg	CLSI INTERPRETATIVE CRITERIA <sup>1</sup>				CLSI QUALITY CONTROL <sup>1</sup>			EUCAST INTERPRETATIVE CRITERIA <sup>2</sup>			EUCAST QUALITY CONTROL <sup>3</sup>		
			S ≥	SDD	I	R ≤	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)				
Amikacin	AK	30	Enterobacterales	20	17-19	16	<i>E. coli</i>	ATCC 25922	19-26	Enterobacterales	18	18	<i>E. coli</i>	ATCC 25922	19-26
			<i>P. aeruginosa</i>	17	15-16	14	<i>S. aureus</i>	ATCC 25923	20-26	<i>Pseudomonas</i> spp.	15	15	<i>P. aeruginosa</i>	ATCC 27853	20-26
			<i>Acinetobacter</i> spp.	17	15-16	14	<i>P. aeruginosa</i>	ATCC 27853	20-26	<i>Acinetobacter</i> spp.	19	19	<i>S. aureus</i>	ATCC 29213	18-24
										<i>S. aureus</i>	(15)	(15)			
									Coagulase-negative staphylococci	(15)	(15)				
Amoxicillin	AML	10	Not available				Not available			Not available			<i>E. coli</i>	ATCC 35218	6
Amoxicillin-clavulanic acid	AUG	3 (2/1)	Not available				Not available			<i>H. influenzae</i> (iv)	15	15	<i>H. influenzae</i>	ATCC 49766	17-23
									<i>H. influenzae</i> (oral)	50	15	<i>S. aureus</i>	ATCC 29213	19-25	
									<i>M. catarrhalis</i>	19	19	<i>B. fragilis</i>	ATCC 25285	23-29	
									<i>P. multocida</i>	15	15				
									<i>Bacteroides</i> spp.	14	14				
									<i>Prevotella</i> spp.	24	24				
									<i>F. necrophorum</i>	23	23				
									<i>C. perfringens</i>	23	23				
									<i>C. acnes</i>	24	24				
Amoxicillin-clavulanic acid	AUG	30 (20/10)	Enterobacterales	18	14-17	13	<i>E. coli</i>	ATCC 25922	18-24	Enterobacterales (iv)	19	19	<i>E. coli</i>	ATCC 25922	18-24
							<i>S. aureus</i>	ATCC 25923	28-36	Enterobacterales (oral, infections originating from the urinary tract )	50	19	<i>E. coli</i>	ATCC 35218	17-22
							<i>E. coli</i>	ATCC 35218	17-22	Enterobacterales (oral, uncomplicated UTI only)	16	16			
							<i>H. influenzae</i>	ATCC 49247	15-23	Enterobacterales (oral, other indications)	19	19			
										<i>B. pseudomallei</i>	50	22			

Antibiotic	CODE	µg	CLSI INTERPRETATIVE CRITERIA <sup>1</sup>				CLSI QUALITY CONTROL <sup>1</sup>	diameter (mm)	EUCAST INTERPRETATIVE CRITERIA <sup>2</sup>			EUCAST QUALITY CONTROL <sup>3</sup>	diameter (mm)			
			S ≥	SDD	I	R ≤			S ≥	R <	diameter (mm)					
			Zone diameter (mm)													
Ampicillin	AMP	2	Not available				Not available		<i>S. saprophyticus</i>	18	18	<i>S. aureus</i>	ATCC 29213	15-21		
								<i>Enterococcus</i> spp.	10	8	<i>E. faecalis</i>	ATCC 29212	15-21			
								<i>S. pneumoniae</i>	22	19	<i>S. pneumoniae</i>	ATCC 49619	25-31			
								Viridans group streptococci	21	15	<i>H. influenzae</i>	ATCC 49766	19-25			
								<i>H. influenzae</i>			<i>H. influenzae</i>	ATCC 49247	6-12			
								<i>Prevotella</i> spp.	18	18						
								<i>F. necrophorum</i>	25	25						
								<i>C. perfringens</i>	27	27						
								<i>C. acnes</i>	23	23						
								<i>L. monocytogenes</i>	23	23						
								<i>P. multocida</i>	16	16						
								<i>A. sanguinicola</i> and <i>urinae</i>	17	17						
									26	26						
Ampicillin	AMP	10	Enterobacterales	17	14-16	13	<i>E. coli</i>	ATCC 25922	15-22	Enterobacterales (iv)	14	14	<i>E. coli</i>	ATCC 25922	15-22	
			<i>Enterococcus</i> spp.	17	-	16	<i>S. aureus</i>	ATCC 25923	27-35	Enterobacterales (oral, uncomplicated UTI only)	14	14	<i>E. coli</i>	ATCC 35218	6	
			<i>Haemophilus</i> spp.	22	19-21	18	<i>E. coli</i>	ATCC 35218	6							
			<i>Streptococcus</i> spp.	24	-	-	<i>H. influenzae</i>	ATCC 49247	13-21							
			β-Hemolytic group				<i>S. pneumoniae</i>	ATCC 49619	30-36							
Ampicillin-sulbactam	AMS	20 (10/10)	Enterobacterales	15	12-14	11	<i>E. coli</i>	ATCC 25922	19-24	Enterobacterales (iv)	14	14	<i>E. coli</i>	ATCC 25922	19-24	
			<i>Acinetobacter</i> spp.	15	12-14	11	<i>S. aureus</i>	ATCC 25923	29-37	Enterobacterales (oral, uncomplicated UTI only)	14	14	<i>E. coli</i>	ATCC 35218	13-19	
			<i>Haemophilus</i> spp.	20	-	19	<i>E. coli</i>	ATCC 35218	13-19				<i>B. fragilis</i>	ATCC 25285	28-34	
							<i>H. influenzae</i>	ATCC 49247	14-22				<i>C. perfringens</i>	ATCC 13124	32-38	
										<i>Bacteroides</i> spp.	25	25				
										<i>Prevotella</i> spp.	33	33				
										<i>F. necrophorum</i>	33	33				
										<i>C. perfringens</i>	27	27				
										<i>C. acnes</i>	33	33				
Azithromycin	AZM	15	<i>S. Typhi</i>	13	-	12	<i>S. aureus</i>	ATCC 25923	21-26	<i>Vibrio</i> spp.	16	16	<i>E. coli</i>	ATCC 25922	14-20	
			<i>Shigella</i> spp.	16	11-15	10	<i>H. influenzae</i>	ATCC 49247	13-21							
			All staphylococci	18	14-17	13	<i>S. pneumoniae</i>	ATCC 49619	19-25							
			<i>Haemophilus</i> spp.	12	-	-	<i>N. gonorrhoeae</i>	ATCC 49226	30-38							
			<i>N. gonorrhoeae</i>	30	-	-										
			<i>S. pneumoniae</i>	18	14-17	13										
			<i>Streptococcus</i> spp.	18	14-17	13										
			β-Hemolytic group													
			<i>Streptococcus</i> spp.	18	14-17	13										
			Viridans group													
			<i>N. meningitidis</i>	20	-	-										
Azlocillin	AZL	75	Not available				<i>P. aeruginosa</i>	ATCC 27853	24-30	Not available			Not available			
Aztreonam	ATM	30	Enterobacterales	21	18-20	17	<i>E. coli</i>	ATCC 25922	28-36	Enterobacterales	26	21	<i>E. coli</i>	ATCC 25922	28-36	
			<i>P. aeruginosa</i>	22	16-21	15	<i>P. aeruginosa</i>	ATCC 27853	23-29	<i>Pseudomonas</i> spp.	50	18	<i>P. aeruginosa</i>	ATCC 27853	23-29	
			<i>Haemophilus</i> spp.	26	-	-	<i>E. coli</i>	ATCC 35218	31-38	<i>Aeromonas</i> spp.	29	26	<i>K. pneumoniae</i>	ATCC 700603	9-17	
							<i>K. pneumoniae</i>	ATCC 700603	10-16							
							<i>H. influenzae</i>	ATCC 49247	30-38							
Carbenicillin	CAR	100	Not available				<i>E. coli</i>	ATCC 25922	23-29	Not available			Not available			
							<i>P. aeruginosa</i>	ATCC 27853	18-24							
Cefaclor	CEC	30	Enterobacterales	18	15-17	14	<i>E. coli</i>	ATCC 25922	23-27	<i>S. pneumoniae</i>	50	28	<i>S. pneumoniae</i>	ATCC 49619	25-31	
			<i>Haemophilus</i> spp.	20	17-19	16	<i>S. aureus</i>	ATCC 25923	27-31							
							<i>H. influenzae</i>	ATCC 49766	25-31							
							<i>S. pneumoniae</i>	ATCC 49619	24-32							
Cefadroxil	CDX	30	Not available				Not available		Enterobacterales			12	12	<i>E. coli</i>	ATCC 25922	14-20

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			S ≥	SDD	I	R ≤	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)					
Cefamandole	MA	30	Enterobacterales	18	15-17	14	<i>E. coli</i> <i>S. aureus</i>	ATCC 25922 ATCC 25923	26-32 26-34	Not available			Not available			
Cefazolin	KZ	30	Enterobacterales Enterobacterales (test for uncomplicated UTI)	23 15	20-22 -	19 14	<i>E. coli</i> <i>S. aureus</i>	ATCC 25922 ATCC 25923	21-27 29-35	<i>E. coli</i> and <i>Klebsiella</i> spp (except <i>K. aerogenes</i> ) 50 20			<i>E. coli</i>	ATCC 25922	21-27	
Cefepime	FEP	30	Enterobacterales <i>P. aeruginosa</i> <i>Acinetobacter</i> spp. <i>Haemophilus</i> spp. <i>N. gonorrhoeae</i> <i>Streptococcus</i> spp. β-Hemolytic group <i>Streptococcus</i> spp. Viridans group	25 18 18 26 31 24 24	19-24 - 15-17 - - - 22-23	- 14 14 - - - 21	<i>E. coli</i> <i>S. aureus</i> <i>P. aeruginosa</i> <i>E. coli</i> <i>K. pneumoniae</i> <i>E. coli</i> <i>A. baumannii</i> <i>H. influenzae</i> <i>N. gonorrhoeae</i> <i>S. pneumoniae</i>	ATCC 25922 ATCC 25923 ATCC 27853 ATCC 35218 ATCC 700603 NCTC 13353 NCTC 13304 ATCC 49247 ATCC 49226 ATCC 49619	31-37 23-29 25-31 31-37 23-29 6-15 6-16 25-31 37-46 28-35	Enterobacterales <i>Pseudomonas</i> spp. Viridans group streptococci <i>H. influenzae</i> <i>M. catarrhalis</i> <i>Aeromonas</i> spp.	27 50 25 - 28 20 27	24 21 25 - 28 20 24	<i>E. coli</i> <i>P. aeruginosa</i> <i>S. pneumoniae</i> <i>H. influenzae</i>	ATCC 25922 ATCC 27853 ATCC 49619 ATCC 49766	31-37 25-31 31-37 30-36	
Cefiderocol	FDC	30	Enterobacterales <i>P. aeruginosa</i> <i>Acinetobacter</i> spp. <i>S. maltophilia</i>	16 18 15 15	9-15 13-17 -	8 12 -	<i>E. coli</i> <i>P. aeruginosa</i>	ATCC 25922 ATCC 27853	25-31 22-31	Enterobacterales <i>P. aeruginosa</i>	23 22	23 22	<i>E. coli</i> <i>P. aeruginosa</i>	ATCC 25922 ATCC 27853	24-30 23-29	
Cefixime	CFM	5	Enterobacterales <i>Haemophilus</i> spp. <i>N. gonorrhoeae</i>	19 21 31	16-18 - -	15 - -	<i>E. coli</i> <i>H. influenzae</i> <i>N. gonorrhoeae</i> <i>S. pneumoniae</i>	ATCC 25922 ATCC 49247 ATCC 49226 ATCC 49619	20-26 25-33 37-45 16-23	Enterobacterales <i>H. influenzae</i> <i>M. catarrhalis</i>	17 26 21	17 26 21	<i>E. coli</i> <i>H. influenzae</i>	ATCC 25922 ATCC 49766	20-26 29-35	
Cefoperazone	CFP	75	Enterobacterales	21	16-20	15	<i>E. coli</i> <i>S. aureus</i> <i>P. aeruginosa</i>	ATCC 25922 ATCC 25923 ATCC 27853	28-34 24-33 23-29	Not available			Not available			
Cefotaxime	CTX	5	Not available			Not available			Enterobacterales (other than meningitis) Enterobacterales (meningitis) Viridans group streptococci <i>H. influenzae</i> <i>M. catarrhalis</i> <i>C. acnes</i> <i>P. multocida</i> <i>C. diphtheriae</i> and <i>C. ulcerans</i> <i>K. kingae</i> <i>Vibrio</i> spp. except <i>V. fluvialis</i>			20 20 23 - 27 20 26 26 50 - 27 21	17 20 23 - 27 17 26 26 15 - 27 21	<i>E. coli</i> <i>S. pneumoniae</i> <i>H. influenzae</i> <i>K. pneumoniae</i> <i>C. perfringens</i>	ATCC 25922 ATCC 49619 ATCC 49766 ATCC 700603 ATCC 13124	25-31 28-34 29-37 12-18 27-33
Cefotaxime	CTX	30	Enterobacterales <i>Acinetobacter</i> spp. <i>Haemophilus</i> spp. <i>N. gonorrhoeae</i> <i>Streptococcus</i> spp. β-Hemolytic group <i>Streptococcus</i> spp. Viridans group <i>N. meningitidis</i>	26 23 26 31 24 28 34	23-25 15-22 - - - 26-27 -	22 14 - - - 25 -	<i>E. coli</i> <i>S. aureus</i> <i>P. aeruginosa</i> <i>K. pneumoniae</i> <i>H. influenzae</i> <i>N. gonorrhoeae</i> <i>S. pneumoniae</i>	ATCC 25922 ATCC 25923 ATCC 27853 ATCC 700603 ATCC 49247 ATCC 49226 ATCC 49619	29-35 25-31 18-22 17-25 31-39 38-48 31-39	Not available			Not available			

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			S ≥	SDD	I	R ≤	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)										
Cefotetan	CTT	30	Enterobacterales	16	13-15	12	<i>E. coli</i>	ATCC 25922	28-34	Not available		Not available									
			<i>N. gonorrhoeae</i>	26	20-25	19	<i>S. aureus</i>	ATCC 25923	17-23						<i>N. gonorrhoeae</i>	ATCC 49226	30-36				
Cefoxitin	FOX	30	Enterobacterales	18	15-17	14	<i>E. coli</i>	ATCC 25922	23-29	Enterobacterales	19	19	<i>E. coli</i>	ATCC 25922	23-29						
			<i>S. aureus</i> and	22	-	21	<i>S. aureus</i>	ATCC 25923	23-29							<i>S. aureus</i> and	22	22	<i>S. aureus</i>	ATCC 29213	24-30
			<i>S. lugdunensis</i>	25		24	<i>N. gonorrhoeae</i>	ATCC 49226	33-41							coagulase-negative			<i>S. aureus</i>	NCTC 12493	14-20
			<i>S. epidermidis</i> (surrogate test for oxacillin)		-	24										staphylococci except <i>S. epidermidis</i> and <i>S. lugdunensis</i>					
Other <i>Staphylococcus</i> spp. excluding <i>S. aureus</i> , <i>S. lugdunensis</i> , <i>S. epidermidis</i> , <i>S. pseudintermedius</i> and <i>S. schleifien</i> (surrogate test for oxacillin)	25	-	24				<i>S. epidermidis</i> and <i>S. lugdunensis</i>	27	27												
<i>N. gonorrhoeae</i>	28	24-27	23																		
Cefpodoxime	PX	10	Enterobacterales	21	18-20	17	<i>E. coli</i>	ATCC 25922	23-28	Enterobacterales	21	21	<i>E. coli</i>	ATCC 25922	23-28						
			<i>Haemophilus</i> spp.	21	-	-	<i>S. aureus</i>	ATCC 25923	19-25							<i>H. influenzae</i>	26	26	<i>S. pneumoniae</i>	ATCC 49619	29-35
			<i>N. gonorrhoeae</i>	29	-	-	<i>K. pneumoniae</i>	ATCC 700603	9-16							<i>H. influenzae</i>	ATCC 49766	30-36	<i>K. pneumoniae</i>	ATCC 700603	9-16
							<i>H. influenzae</i>	ATCC 49247	25-31												
							<i>N. gonorrhoeae</i>	ATCC 49226	35-43												
							<i>S. pneumoniae</i>	ATCC 49619	28-34												
Cefprozil	CPR	30	Enterobacterales	18	15-17	14	<i>E. coli</i>	ATCC 25922	21-27	Not available		Not available									
			<i>Haemophilus</i> spp.	18	15-17	14	<i>S. aureus</i>	ATCC 25923	27-33												
Ceftaroline	CPT	5	Not available			Not available			Enterobacterales	23	23	<i>E. coli</i>	ATCC 25922	24-30							
			Not available			Not available									<i>S. aureus</i> (other than pneumonia)	20	17	<i>S. aureus</i>	ATCC 29213	24-30	
Ceftaroline	CPT	30	Not available			Not available			Enterobacterales	23	23	<i>E. coli</i>	ATCC 25922	24-30							
			Not available			Not available									<i>S. aureus</i> (pneumonia)	20	20				
Ceftaroline	CPT	30	Enterobacterales	23	20-22	19	<i>E. coli</i>	ATCC 25922	26-34	Not available		Not available									
			<i>S. aureus</i> only including MRSA	25	20-24	19	<i>S. aureus</i>	ATCC 25923	26-35												
			<i>Haemophilus</i> spp.	30	-	-	<i>H. influenzae</i>	ATCC 49247	29-39												
			<i>S. pneumoniae</i>	26	-	-	<i>S. pneumoniae</i>	ATCC 49619	31-41												
			<i>Streptococcus</i> spp.	26	-	-															
			β-Hemolytic group	26	-	-															
Ceftazidime	CAZ	10	Not available			Not available			Enterobacterales	22	19	<i>E. coli</i>	ATCC 25922	23-29							
			Not available			Not available									<i>Pseudomonas</i> spp.	50	17	<i>P. aeruginosa</i>	ATCC 27853	21-27	
			Not available			Not available									<i>Aeromonas</i> spp.	24	21	<i>K. pneumoniae</i>	ATCC 700603	6-12	
			Not available			Not available									<i>Vibrio</i> spp.	22	22				
			Not available			Not available									<i>B. pseudomallei</i>	50	18				
Ceftazidime	CAZ	30	Enterobacterales	21	18-20	17	<i>E. coli</i>	ATCC 25922	25-32	Not available		Not available									
			<i>P. aeruginosa</i>	18	15-17	14	<i>S. aureus</i>	ATCC 25923	16-20												
			<i>Acinetobacter</i> spp.	18	15-17	14	<i>P. aeruginosa</i>	ATCC 27853	22-29												
			<i>Haemophilus</i> spp.	26	-	-	<i>K. pneumoniae</i>	ATCC 700603	10-18												
							<i>H. influenzae</i>	ATCC 49247	27-35												
							<i>N. gonorrhoeae</i>	ATCC 49226	35-43												

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			S ≥	SDD	I R ≤	diameter (mm)	S ≥	R <	diameter (mm)	S ≥	R <	diameter (mm)					
Ceftazidime-avibactam	CZA	14 (10/4)	Not available			Not available			Enterobacterales <i>P. aeruginosa</i>	13 17	13 17	<i>E. coli</i> <i>P. aeruginosa</i> <i>K. pneumoniae</i>	ATCC 25922 ATCC 27853 ATCC 700603	24-30 21-27 18-24			
Ceftazidime-avibactam	CZA	50 (30/20)	Enterobacterales <i>P. aeruginosa</i>	21 21		20 20	<i>E. coli</i> <i>S. aureus</i> <i>P. aeruginosa</i> <i>E. coli</i> <i>K. pneumoniae</i> <i>H. influenzae</i> <i>S. pneumoniae</i>	ATCC 25922 ATCC 25923 ATCC 27853 ATCC 35218 ATCC 700603 ATCC 49247 ATCC 49619	27-35 16-22 25-31 28-35 21-27 28-34 23-31	Not available			Not available				
Ceftibuten	CTB	30	Enterobacterales <i>Haemophilus</i> spp.	21 28		18-20 -	17 -	<i>E. coli</i> <i>E. coli</i> <i>H. influenzae</i>	ATCC 25922 NCTC 13353 ATCC 49247	27-35 15-23 29-36	Enterobacterales <i>H. influenzae</i>	23 25	23 25	<i>E. coli</i> <i>H. influenzae</i>	ATCC 25922 ATCC 49766	27-35 31-37	
Ceftizoxime	CZX	30	Enterobacterales <i>Haemophilus</i> spp. <i>N. gonorrhoeae</i>	25 26 38		22-24 - -	21 - -	<i>E. coli</i> <i>S. aureus</i> <i>P. aeruginosa</i> <i>H. influenzae</i> <i>N. gonorrhoeae</i> <i>S. pneumoniae</i>	ATCC 25922 ATCC 25923 ATCC 27853 ATCC 49247 ATCC 49226 ATCC 49619	30-36 27-35 12-17 29-39 42-51 28-34	Not available			Not available			
Ceftobiprole	BPR	5	Not available			Not available			<i>E. coli</i> <i>S. aureus</i>	ATCC 25922 ATCC 25923	25-31 20-27	Enterobacterales <i>S. aureus</i>	23 17	23 17	<i>E. coli</i> <i>S. aureus</i>	ATCC 25922 ATCC 29213	25-31 22-28
Ceftolozane-tazobactam	C/T	40 (30/10)	Enterobacterales <i>P. aeruginosa</i>	22 21		19-21 17-20	18 16	<i>E. coli</i> <i>S. aureus</i> <i>P. aeruginosa</i> <i>E. coli</i> <i>K. pneumoniae</i> <i>H. influenzae</i> <i>S. pneumoniae</i>	ATCC 25922 ATCC 25923 ATCC 27853 ATCC 35218 ATCC 700603 ATCC 49247 ATCC 49619	24-32 10-18 25-31 25-31 17-25 23-29 21-29	Enterobacterales <i>P. aeruginosa</i> <i>H. influenzae</i>	22 23 23	22 23 23	<i>E. coli</i> <i>P. aeruginosa</i> <i>E. coli</i> <i>K. pneumoniae</i> <i>H. influenzae</i>	ATCC 25922 ATCC 27853 ATCC 35218 ATCC 700603 ATCC 49766	24-32 25-31 25-31 17-25 24-30	
Ceftriaxone	CRO	30	Enterobacterales <i>Acinetobacter</i> spp. <i>Haemophilus</i> spp. <i>N. gonorrhoeae</i> <i>Streptococcus</i> spp. β-Hemolytic group <i>Streptococcus</i> spp. Viridans group <i>N. meningitidis</i>	23 21 26 35 24 27 34		20-22 14-20 - - - 25-26 -	19 13 - - - 24 -	<i>E. coli</i> <i>S. aureus</i> <i>P. aeruginosa</i> <i>K. pneumoniae</i> <i>H. influenzae</i> <i>N. gonorrhoeae</i> <i>S. pneumoniae</i>	ATCC 25922 ATCC 25923 ATCC 27853 ATCC 700603 ATCC 49247 ATCC 49226 ATCC 49619	29-35 22-28 17-23 16-24 31-39 39-51 30-35	Enterobacterales (other than meningitis) Enterobacterales (meningitis) Viridans group streptococci <i>H. influenzae</i> <i>M. catarrhalis</i> <i>C. acnes</i> <i>K. kingae</i> <i>B. melitensis</i> (meningitis)	25 25 27 32 24 33 30 (30)	22 25 27 32 21 33 30 (30)	<i>E. coli</i> <i>S. pneumoniae</i> <i>H. influenzae</i> <i>K. pneumoniae</i>	ATCC 25922 ATCC 49619 ATCC 49766 ATCC 700603	29-35 32-38 34-42 16-22	
Cefuroxime	CXM	30	Enterobacterales (Parenteral) Enterobacterales (Oral) <i>Haemophilus</i> spp.	18 23 20		15-17 15-22 17-19	14 14 16	<i>E. coli</i> <i>S. aureus</i> <i>H. influenzae</i> <i>N. gonorrhoeae</i>	ATCC 25922 ATCC 25923 ATCC 49766 ATCC 49226	20-26 27-35 28-36 33-41	<i>E. coli</i> , <i>Klebsiella</i> spp. (except <i>K. aerogenes</i> ), <i>Raoultella</i> spp. and <i>P. mirabilis</i> : - iv - oral Viridans group streptococci <i>H. influenzae</i> (iv) <i>H. influenzae</i> (oral) <i>M. catarrhalis</i> (iv) <i>M. catarrhalis</i> (oral) <i>K. kingae</i>	50 19 26 27 50 21 50 29	19 19 26 25 27 18 21 29	<i>E. coli</i> <i>S. pneumoniae</i> <i>H. influenzae</i>	ATCC 25922 ATCC 49619 ATCC 49766	20-26 28-34 26-34	

Antibiotic	CODE	µg	CLSI INTERPRETATIVE CRITERIA <sup>1</sup>				CLSI QUALITY CONTROL <sup>1</sup>			EUCAST INTERPRETATIVE CRITERIA <sup>2</sup>			EUCAST QUALITY CONTROL <sup>3</sup>							
			S ≥	SDD	I	R ≤	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)	diameter (mm)								
			Zone diameter (mm)																	
Cephalexin	CL	30	Not available				Not available			Enterobacterales			14	14	<i>E. coli</i> ATCC 25922 15-21					
Cephalothin	KF	30	Not available				<i>E. coli</i> ATCC 25922 15-21 <i>S. aureus</i> ATCC 25923 29-37 <i>S. pneumoniae</i> ATCC 49619 26-32			Not available			Not available							
Chloramphenicol	C	30	<i>Enterobacterales</i>	18	13-17	12	<i>E. coli</i>	ATCC 25922	21-27	<i>Staphylococcus</i> spp. 18 18 Streptococcus groups 19 19 A,B,C and G <i>S. pneumoniae</i> 21 21 <i>H. influenzae</i> 28 28 <i>M. catarrhalis</i> 30 30 <i>B. pseudomallei</i> 50 22	<i>E. coli</i> ATCC 25922 21-27 <i>S. aureus</i> ATCC 25923 19-26 <i>H. influenzae</i> ATCC 49247 31-40 <i>S. pneumoniae</i> ATCC 49619 23-27	<i>E. coli</i> ATCC 25922 21-27 <i>S. aureus</i> ATCC 29213 20-28 <i>S. pneumoniae</i> ATCC 49619 24-30 <i>H. influenzae</i> ATCC 49766 31-37	18	18	21-27	20-28	24-30	31-37		
			All staphylococci	18	13-17	12	<i>S. aureus</i>	ATCC 25923	19-26											
			<i>Enterococcus</i> spp.	18	13-17	12	<i>H. influenzae</i>	ATCC 49247	31-40											
			<i>Haemophilus</i> spp.	29	26-28	25	<i>S. pneumoniae</i>	ATCC 49619	23-27											
			<i>S. pneumoniae</i>	21	-	20														
			<i>Streptococcus</i> spp.	21	18-20	17														
			β-Hemolytic group																	
			<i>Streptococcus</i> spp.	21	18-20	17														
			Viridans group																	
			<i>N. meningitidis</i>	26	20-25	19														
Cinoxacin	CIN	100	Enterobacterales				<i>E. coli</i> ATCC 25922 26-32			Not available			Not available							
Ciprofloxacin	CIP	5	<i>Enterobacterales</i> except <i>Salmonella</i> spp.	26	22-25	21	<i>E. coli</i>	ATCC 25922	29-38	Enterobacterales (indications other than meningitis) 25 22 <i>Pseudomonas</i> spp. 50 26 <i>Acinetobacter</i> spp. 50 21 <i>S. aureus</i> (50) (17) Coagulase-negative staphylococci (50) (22) <i>Enterococcus</i> spp. (uncomplicated UTI only) 15 15 <i>H. influenzae</i> (indications other than meningitis) 30 30 <i>H. influenzae</i> (meningitis) * * <i>M. catarrhalis</i> 31 31 <i>P. multocida</i> 27 27 <i>Campylobacter jejuni</i> and <i>C. coli</i> 50 26 <i>Corynebacterium</i> spp. other than <i>C. diphtheriae</i> and <i>C. ulcerans</i> 50 25 <i>C. diphtheriae</i> and <i>C. ulcerans</i> 50 24 <i>A. sanguinicola</i> and <i>urinae</i> 21 21 <i>K. kingae</i> 28 28 <i>Aeromonas</i> spp. 27 24 <i>Vibrio</i> spp. 23 23 <i>Bacillus</i> spp (except <i>B. anthracis</i> ) 50 23 <i>B. anthracis</i> 50 24 <i>B. melitensis</i> 50 27	<i>E. coli</i> ATCC 25922 29-38 <i>S. aureus</i> ATCC 25923 22-30 <i>P. aeruginosa</i> ATCC 27853 25-33 <i>H. influenzae</i> ATCC 49247 34-42 <i>N. gonorrhoeae</i> ATCC 49226 48-58	<i>E. coli</i> ATCC 25922 29-37 <i>P. aeruginosa</i> ATCC 27853 25-33 <i>S. aureus</i> ATCC 29213 21-27 <i>E. faecalis</i> ATCC 29212 19-25 <i>S. pneumoniae</i> ATCC 49619 22-28 <i>H. influenzae</i> ATCC 49766 32-40 <i>C. jejuni</i> ATCC 33560 34-42	25	22	29-38	25-33	21-27	22-28	32-40	34-42
			<i>Salmonella</i> spp.	31	21-30	20														
			<i>P. aeruginosa</i>	25	19-24	18														
			<i>Acinetobacter</i> spp.	21	16-20	15														
			All staphylococci	21	16-20	15														
			<i>Enterococcus</i> spp.	21	16-20	15														
			<i>Haemophilus</i> spp.	21	-	-														
			<i>N. gonorrhoeae</i>	41	28-40	27														
			<i>N. Meningitidis</i>	35	33-34	32														

Antibiotic	CODE	µg	CLSI INTERPRETATIVE CRITERIA <sup>1</sup>			CLSI QUALITY CONTROL <sup>1</sup>			EUCAST INTERPRETATIVE CRITERIA <sup>2</sup>			EUCAST QUALITY CONTROL <sup>3</sup>		
			S ≥	SDD	I R ≤	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)				
Clarithromycin	CLR	15	All staphylococci	18	14-17	13	<i>S. aureus</i> ATCC 25923	26-32	Not available	Not available				
			<i>Haemophilus</i> spp.	13	11-12	10	<i>H. influenzae</i> ATCC 49247	11-17						
			<i>S. pneumoniae</i>	21	17-20	16	<i>S. pneumoniae</i> ATCC 49619	25-31						
			Streptococcus spp. β-Hemolytic group	21	17-20	16								
			<i>Streptococcus</i> spp. Viridans group	21	17-20	16								
Clindamycin	CD	2	All staphylococci	21	15-20	14	<i>S. aureus</i> ATCC 25923	24-30	<i>Staphylococcus</i> spp. Streptococcus groups A,B,C and G <i>S. pneumoniae</i> Viridans group streptococci <i>Bacteroides</i> spp. <i>Prevotella</i> spp. <i>F. necrophorum</i> <i>C. perfringens</i> <i>C. acnes</i> <i>Corynebacterium</i> spp. other than <i>C. diphtheriae</i> and <i>C. ulcerans</i> <i>C. diphtheriae</i> <i>Bacillus</i> spp (except <i>B. anthracis</i> ) <i>B. anthracis</i>	22 17 17 19 19 (10) 31 30 19 26 20 15 17 17	22 17 17 19 19 (10) 31 30 19 26 20 15 17 17	<i>S. aureus</i> ATCC 29213 <i>S. pneumoniae</i> ATCC 49619 <i>B. fragilis</i> ATCC 25285 <i>C. perfringens</i> ATCC 13124	23-29 22-28 23-29 20-26	
			<i>S. pneumoniae</i>	19	16-18	15	<i>S. pneumoniae</i> ATCC 49619	19-25						
			<i>Streptococcus</i> spp. β-Hemolytic Group	19	16-18	15								
			<i>Streptococcus</i> spp. Viridans Group	19	16-18	15								
Colistin sulfate	CS	10	Not available			<i>E. coli</i> ATCC 25922 <i>P. aeruginosa</i> ATCC 27853	11-17 11-17	Not available	Not available	Not available	Not available	Not available		
Doripenem	DOR	10	Enterobacterales	23	20-22	19	<i>E. coli</i> ATCC 25922	27-35	Enterobacterales <i>Pseudomonas</i> spp. <i>Acinetobacter</i> spp. <i>H. influenzae</i> <i>M. catarrhalis</i>	24 50 50 23 30	21 22 22 23 30	<i>E. coli</i> ATCC 25922 <i>P. aeruginosa</i> ATCC 27853 <i>S. pneumoniae</i> ATCC 49619	27-35 28-35 31-37 26-32	
			<i>P. aeruginosa</i>	19	16-18	15	<i>S. aureus</i> ATCC 25923	33-42						
			<i>Acinetobacter</i> spp.	18	15-17	14	<i>P. aeruginosa</i> ATCC 27853	28-35						
			<i>Haemophilus</i> spp.	16	-	1	<i>H. influenzae</i> ATCC 49247 <i>S. pneumoniae</i> ATCC 49619	21-31 30-38						
Doxycycline	DXT	30	Enterobacterales	14	11-13	10	<i>E. coli</i> ATCC 25922	18-24	Not available	Not available	Not available			
			<i>Acinetobacter</i> spp.	13	10-12	9	<i>S. aureus</i> ATCC 25923	23-29						
			All staphylococci	16	13-15	12	<i>S. pneumoniae</i> ATCC 49619	25-34						
			<i>Enterococcus</i> spp.	16	13-15	12								
			<i>S. pneumoniae</i>	28	25-27	24								
Eravacycline	ERV	20	Not available			<i>E. coli</i> ATCC 25922 <i>S. aureus</i> ATCC 25923 <i>S. pneumoniae</i> ATCC 49619	17-24 19-26 23-30	<i>E. coli</i> <i>S. aureus</i> <i>E. faecalis</i> <i>E. faecium</i> Viridans group streptococci	17 20 22 24 17	17 20 22 24 17	<i>E. coli</i> ATCC 25922 <i>S. aureus</i> ATCC 29213 <i>E. faecalis</i> ATCC 29212 <i>S. pneumoniae</i> ATCC 49619	18-24 20-26 20-26 24-30		
Ertapenem	ETP	10	Enterobacterales	22	19-21	18	<i>E. coli</i> ATCC 25922	29-36	Enterobacterales Viridans group streptococci <i>H. influenzae</i> <i>M. catarrhalis</i> <i>Bacteroides</i> spp. <i>Prevotella</i> spp. <i>F. necrophorum</i> <i>C. perfringens</i> <i>C. acnes</i>	23 22 23 29 (23) 29 35 24 28	23 22 23 29 (23) 29 35 24 28	<i>E. coli</i> ATCC 25922 <i>S. pneumoniae</i> ATCC 49619 <i>H. influenzae</i> ATCC 49766 <i>C. perfringens</i> ATCC 13124	29-36 28-34 27-33 31-37	
			<i>Haemophilus</i> spp.	19	-	-	<i>S. aureus</i> ATCC 25923	24-31						
							<i>P. aeruginosa</i> ATCC 27853	13-21						
							<i>H. influenzae</i> ATCC 49247	20-28						
							<i>H. influenzae</i> ATCC 49766	27-33						
							<i>S. pneumoniae</i> ATCC 49619	28-35						

Antibiotic	CODE	µg	CLSI INTERPRETATIVE CRITERIA <sup>1</sup>			CLSI QUALITY CONTROL <sup>1</sup>			EUCAST INTERPRETATIVE CRITERIA <sup>2</sup>			EUCAST QUALITY CONTROL <sup>3</sup>		
			S ≥	SDD	I R ≤	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)	diameter (mm)			
Erythromycin	E	15	All staphylococci	23	14-22	13	<i>S. aureus</i> ATCC 25923	22-30	<i>Staphylococcus</i> spp.	21	21	<i>S. aureus</i> ATCC 29213	23-29	
			<i>Enterococcus</i> spp.	23	14-22	13	<i>S. pneumoniae</i> ATCC 49619	25-30	Streptococcus groups A,B,C and G	21	21	<i>S. pneumoniae</i> ATCC 49619	26-32	
			<i>S. pneumoniae</i>	21	16-20	15		<i>S. pneumoniae</i>	22	22	<i>H. influenzae</i> ATCC 49766	10-16		
			<i>Streptococcus</i> spp.	21	16-20	15		<i>H. influenzae</i>	50	10	<i>C. jejuni</i> ATCC 33560	27-35		
			β-Hemolytic group					<i>M. catarrhalis</i>	23	23				
			<i>Streptococcus</i> spp.	21	16-20	15		<i>L. monocytogenes</i>	25	25				
			Viridans group					<i>C. jejuni</i>	20	20				
								<i>C. coli</i>	24	24				
								<i>C. diphtheriae</i> and <i>C. ulcerans</i>	24	24				
								<i>K. kingae</i>	20	20				
								<i>Vibrio</i> spp.	12	12				
								<i>Bacillus</i> spp (except <i>B. anthracis</i> )	24	24				
Fosfomicin (includes G-6-P)	FOS	200	Enterobacterales ( <i>E. coli</i> urinary tract isolates only)	16	13-15	12	<i>E. coli</i> ATCC 25922	22-30	<i>E. coli</i> (iv, infections originating from the urinary tract)	24	24	<i>E. coli</i> ATCC 25922	26-34	
			<i>Enterococcus</i> spp.	16	13-15	12	<i>S. aureus</i> ATCC 25923	25-33						
Fusidic acid	FC	10	Not available				<i>S. aureus</i> ATCC 25923	24-32	<i>Staphylococcus</i> spp.	24	24	<i>S. aureus</i> ATCC 29213	26-32	
							<i>S. pneumoniae</i> ATCC 49619	9-16						
Gatifloxacin	GAT	5	Enterobacterales	18	15-17	14	<i>E. coli</i> ATCC 25922	30-37	Not available		Not available			
			<i>P. aeruginosa</i>	18	15-17	14	<i>S. aureus</i> ATCC 25923	27-33						
			<i>Acinetobacter</i> spp.	18	15-17	14	<i>P. aeruginosa</i> ATCC 27853	20-28						
			All staphylococci	23	20-22	19	<i>H. influenzae</i> ATCC 49247	33-41						
			<i>Enterococcus</i> spp.	18	15-17	14	<i>N. gonorrhoeae</i> ATCC 49226	45-56						
			<i>Haemophilus</i> spp.	18	-	-	<i>S. pneumoniae</i> ATCC 49619	24-31						
			<i>N. gonorrhoeae</i>	38	34-37	33								
			<i>S. pneumoniae</i>	21	18-20	17								
			<i>Streptococcus</i> spp.	21	18-20	17								
			β-Hemolytic group											
			<i>Streptococcus</i> spp.	21	18-20	17								
			Viridans group											
Gentamicin	CN	10	Enterobacterales	18	15-17	14	<i>E. coli</i> ATCC 25922	19-26	Enterobacterales (systemic infections)	(17)	(17)	<i>E. coli</i> ATCC 25922	19-26	
			<i>Acinetobacter</i> spp.	15	13-14	12	<i>S. aureus</i> ATCC 25923	19-27	Enterobacterales (infections originating from the urinary tract)	17	17	<i>P. aeruginosa</i> ATCC 27853	17-23	
			All staphylococci	15	13-14	12	<i>P. aeruginosa</i> ATCC 27853	17-23	<i>Acinetobacter</i> spp. (systemic infections)	(17)	(17)	<i>S. aureus</i> ATCC 29213	19-25	
							<i>N. gonorrhoeae</i> ATCC 49226	15-20	<i>Acinetobacter</i> spp. (infections originating from the urinary tract)	17	17			
									<i>S. aureus</i>	(18)	(18)			
									Coagulase-negative staphylococci	(22)	(22)			
									<i>Corynebacterium</i> spp.	23	23			
						<i>B. melitensis</i>	(23)	(23)						
Gentamicin	CN	30	Not available			Not available		<i>Enterococcus</i> spp. (Test for HLAR)	8	8	<i>E. faecalis</i> ATCC 29212	12-18		
								<i>E. faecalis</i>			ATCC 51299	6		
Gentamicin	CN	120	<i>Enterococcus</i> spp. (Screening Test for HLAR)	10		6	<i>E. faecalis</i> ATCC 29212	16-23	Not available					
							<i>E. faecalis</i> ATCC 51299	6						



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			S ≥	SDD	I	R ≤	diameter (mm)	S ≥	R <	diameter (mm)	S ≥	R <	diameter (mm)			
Imipenem	IMI	10	Enterobacterales	23	20-22	19	<i>E. coli</i>	ATCC 25922	26-32	Enterobacterales, except <i>Morganellaceae</i>	22	19	<i>E. coli</i>	ATCC 25922	26-32	
			<i>P. aeruginosa</i>	19	16-18	15	<i>P. aeruginosa</i>	ATCC 27853	20-28		<i>P. aeruginosa</i>	ATCC 27853	20-28			
			<i>Acinetobacter</i> spp.	22	19-21	18	<i>K. pneumoniae</i>	ATCC 700603	25-33		<i>Morganellaceae</i>	ATCC 29212	24-30			
			<i>Haemophilus</i> spp.	16	-	-	<i>K. pneumoniae</i>	ATCC BAA-1705	11-22		<i>Pseudomonas</i> spp.	ATCC 49619	34-42			
							<i>K. pneumoniae</i>	ATCC BAA-2814	6-14		<i>Acinetobacter</i> spp.	ATCC 49766	24-30			
							<i>H. influenzae</i>	ATCC 49247	21-29	<i>Enterococcus</i> spp.	50	21	<i>B. fragilis</i>	ATCC 25285	38-44	
									Viridans group	30	30	<i>C. perfringens</i>	ATCC 13124	30-36		
									streptococci							
									<i>H. influenzae</i>	20	20					
									<i>M. catarrhalis</i>	29	29					
									<i>Bacteroides</i> spp.	29	29					
									<i>Prevotella</i> spp.	35	35					
									<i>F. necrophorum</i>	36	36					
									<i>C. perfringens</i>	25	25					
									<i>C. acnes</i>	39	39					
									<i>B. pseudomallei</i>	29	29					
									<i>Bacillus</i> spp (except <i>B. anthracis</i> )	30	30					
Imipenem-relebactam	I/R	35 (10/25)	Enterobacterales	25	21-24	20	<i>E. coli</i>	ATCC 25922	27-33	Enterobacterales, except <i>Morganellaceae</i>	22	22	<i>E. coli</i>	ATCC 25922	27-33	
			<i>P. aeruginosa</i>	23	20-22	19	<i>P. aeruginosa</i>	ATCC 27853	26-31		<i>P. aeruginosa</i>	ATCC 27853	26-31			
							<i>K. pneumoniae</i>	ATCC 700603	26-32		<i>K. pneumoniae</i>	ATCC	22-28			
							<i>K. pneumoniae</i>	ATCC BAA-1705	23-29		<i>Acinetobacter</i> spp.	BAA-2814				
							<i>K. pneumoniae</i>	ATCC BAA-2814	22-28							
Kanamycin	K	30	Enterobacterales	18	14-17	13	<i>E. coli</i>	ATCC 25922	17-25	Not available			Not available			
							<i>S. aureus</i>	ATCC 25923	19-26							
Lefamulin	LMU	5	Not available			Not available										
																<i>S. aureus</i>
									<i>S. pneumoniae</i>	12	12	<i>S. pneumoniae</i>	ATCC 49619	15-21		
Lefamulin	LMU	20	Not available			Not available										
			<i>S. aureus</i> , including MRSA	23	-	-	<i>S. aureus</i>	ATCC 25923							26-32	
			<i>H. influenzae</i>	18	-	-	<i>H. influenzae</i>	ATCC 49247							22-28	
			<i>S. pneumoniae</i>	19	-	-	<i>S. pneumoniae</i>	ATCC 49619							19-27	
Levofloxacin	LEV	5	<i>Enterobacterales</i>	21	17-20	16	<i>E. coli</i>	ATCC 25922	29-37	Enterobacterales	23	19	<i>E. coli</i>	ATCC 25922	29-37	
			<i>P. aeruginosa</i>	22	15-21	14	<i>S. aureus</i>	ATCC 25923	25-30		<i>Pseudomonas</i> spp.	50	18	<i>P. aeruginosa</i>	ATCC 27853	19-26
			<i>Acinetobacter</i> spp.	17	14-16	13	<i>P. aeruginosa</i>	ATCC 27853	19-26		<i>Acinetobacter</i> spp.	23	20	<i>S. aureus</i>	ATCC 29213	23-29
			<i>S. maltophilia</i>	17	14-16	13	<i>H. influenzae</i>	ATCC 49247	32-40		<i>S. aureus</i>	50	22	<i>E. faecalis</i>	ATCC 29212	19-25
			All staphylococci	19	16-18	15	<i>S. pneumoniae</i>	ATCC 49619	20-25		Coagulase-negative staphylococci	50	24	<i>S. pneumoniae</i>	ATCC 49619	21-27
			<i>Enterococcus</i> spp.	17	14-16	13					Enterococcus spp. (uncomplicate UTI only)	15	15	<i>H. influenzae</i>	ATCC 49766	31-39
			<i>Haemophilus</i> spp.	17	-	-					Streptococcus groups (uncomplicate UTI only)					
			<i>S. pneumoniae</i>	17	14-16	13					Streptococcus groups A,B,C and G	50	17			
			<i>Streptococcus</i> spp.	17	14-16	13					<i>S. pneumoniae</i>	50	16			
			β-Hemolytic group								<i>H. influenzae</i>	30	30			
			<i>Streptococcus</i> spp.	17	14-16	13					<i>M. catarrhalis</i>	29	29			
			Viridans group								<i>P. multocida</i>	27	27			
											<i>K. kingae</i>	28	28			
											<i>Aeromonas</i> spp.	27	24			
											<i>Vibrio</i> spp.	23	23			
											<i>Bacillus</i> spp (except <i>B. anthracis</i> )	50	23			
											<i>B. anthracis</i>	50	23			
							<i>B. melitensis</i>	50	28							

Antibiotic	CODE	µg	CLSI INTERPRETATIVE CRITERIA <sup>1</sup>			CLSI QUALITY CONTROL <sup>1</sup>			EUCAST INTERPRETATIVE CRITERIA <sup>2</sup>			EUCAST QUALITY CONTROL <sup>3</sup>			
			S ≥	SDD	I R ≤	diameter (mm)	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)				
Levonadifloxacin	LND	10	Not available			<i>E. coli</i>	ATCC 25922	27-33	Not available			Not available			
						<i>S. aureus</i>	ATCC 25923	32-39							
						<i>P. aeruginosa</i>	ATCC 27853	17-23							
						<i>H. influenzae</i>	ATCC 49247	33-41							
						<i>S. pneumoniae</i>	ATCC 49619	24-31							
Linezolid	LNZ	10	Not available			Not available			<i>Staphylococcus</i> spp.	21	21	<i>S. aureus</i>	ATCC 29213	21-27	
									<i>Enterococcus</i> spp.	20	20	<i>E. faecalis</i>	ATCC 29212	19-25	
									Streptococcus groups A,B,C and G	19	19	<i>S. pneumoniae</i>	ATCC 49619	23-29	
									<i>S. pneumoniae</i>	22	22	<i>C. perfringens</i>	ATCC 13124	22-28	
									<i>C. acnes</i>	34	34				
									<i>Corynebacterium</i> spp. other than <i>C. diphtheriae</i> and <i>C. ulcerans</i>	25	25				
									<i>C. diphtheriae</i> and <i>C. ulcerans</i>	25	25				
									<i>B. anthracis</i>	20	20				
Linezolid	LNZ	30	All staphylococci	26	23-25	22	<i>S. aureus</i>	ATCC 25923	24-30	Not available			Not available		
			<i>Enterococcus</i> spp.	23	21-22	20	<i>S. pneumoniae</i>	ATCC 49619	25-34						
			<i>S. pneumoniae</i>	21	-	-									
			<i>Streptococcus</i> spp.	21	-	-									
			β-Hemolytic group												
			<i>Streptococcus</i> spp. Viridans group	21	-	-									
Lomefloxacin	LOM	10	Enterobacterales	22	19-21	18	<i>E. coli</i>	ATCC 25922	27-33	Not available			Not available		
			<i>P. aeruginosa</i>	22	19-21	18	<i>S. aureus</i>	ATCC 25923	23-29						
			All staphylococci	22	19-21	18	<i>P. aeruginosa</i>	ATCC 27853	22-28						
			<i>Haemophilus</i> spp.	22	-	-	<i>H. influenzae</i>	ATCC 49247	33-41						
							<i>N. gonorrhoeae</i>	ATCC 49226	45-54						
Mecillinam	MEC	10	Enterobacterales	15	12-14	11	<i>E. coli</i>	ATCC 25922	24-30	<i>E. coli</i> , <i>Citrobacter</i> spp., <i>Klebsiella</i> spp., <i>Raoultella</i> spp., <i>Enterobacter</i> spp. and <i>P. mirabilis</i>	15	15	<i>E. coli</i>	ATCC 25922	24-30

Antibiotic	CODE	µg	CLSI INTERPRETATIVE CRITERIA <sup>1</sup>			CLSI QUALITY CONTROL <sup>1</sup>	diameter (mm)	EUCAST INTERPRETATIVE CRITERIA <sup>2</sup>			EUCAST QUALITY CONTROL <sup>3</sup>	diameter (mm)						
			S ≥	SDD	I			R ≤	S ≥	R <			diameter (mm)					
			Zone diameter (mm)															
Meropenem	MRP	10	Enterobacterales	23	20-22	19	<i>E. coli</i>	ATCC 25922	28-35	Enterobacterales (other than meningitis)	22	16	<i>E. coli</i>	ATCC 25922	28-35			
			<i>P. aeruginosa</i>	19	16-18	15	<i>S. aureus</i>	ATCC 25923	29-37	Enterobacterales (meningitis)	22	22	<i>P. aeruginosa</i>	ATCC 27853	27-33			
			<i>Acinetobacter</i> spp.	18	15-17	14	<i>P. aeruginosa</i>	ATCC 27853	27-33	<i>Acinetobacter</i> spp. (other than meningitis)	21	15	<i>S. pneumoniae</i>	ATCC 49619	30-38			
			<i>Haemophilus</i> spp.	20	-	-	<i>K. pneumoniae</i>	ATCC BAA-1705	11-18	<i>Acinetobacter</i> spp. (meningitis)	21	21	<i>H. influenzae</i>	ATCC 49766	27-35			
			<i>N. meningitidis</i>	30	-	-	<i>K. pneumoniae</i>	ATCC BAA-2814	6	Viridans group streptococci	25	25	<i>B. fragilis</i>	ATCC 25285	32-39			
							<i>H. influenzae</i>	ATCC 49247	20-28	<i>H. influenzae</i>	20	20	<i>C. perfringens</i>	ATCC 13124	34-40			
							<i>S. pneumoniae</i>	ATCC 49619	28-35	<i>Bacteroides</i> spp.	28	28						
										<i>Prevotella</i> spp.	34	34						
										<i>F. necrophorum</i>	35	35						
										<i>C. perfringens</i>	25	25						
										<i>C. acnes</i>	28	28						
										<i>M. catarrhalis</i>	33	33						
										<i>L. monocytogenes</i>	26	26						
										<i>C. diphtheriae</i> and <i>C. ulcerans</i>	24	24						
			Metronidazole	MTZ	5	Not available			Not available			<i>A. sanguinicola</i> and <i>urinae</i>	31	31	<i>B. fragilis</i>	ATCC 25285	29-36	
									<i>K. kingae</i>	30	30	<i>C. perfringens</i>	ATCC 13124	20-26				
									<i>A. xylooxidans</i>	26	20							
									<i>Vibrio</i> spp.	24	24							
									<i>Bacillus</i> spp. except <i>B. anthracis</i>	25	25							
Minocycline	MN	30	Enterobacterales	16	13-15	12	<i>E. coli</i>	ATCC 25922	19-25	<i>B. pseudomallei</i>	24	24	<i>S. aureus</i>	ATCC 29213	23-29			
			<i>Acinetobacter</i> spp.	16	13-15	12	<i>S. aureus</i>	ATCC 25923	25-30	Staphylococcus spp.	23	23	Streptococcus groups A,B,C and G	23	23	<i>S. pneumoniae</i>	ATCC 49619	25-31
			<i>S. maltophilia</i>	26	21-25	20				<i>S. pneumoniae</i>	24	24	<i>H. influenzae</i>	ATCC 49766	26-32			
			All staphylococci	19	15-18	14				<i>H. influenzae</i>	24	24						
			<i>Enterococcus</i> spp.	19	15-18	14				<i>M. catarrhalis</i>	25	25						
			<i>N. meningitidis</i>	26	-	-												

Antibiotic	CODE	µg	CLSI INTERPRETATIVE CRITERIA <sup>1</sup>			CLSI QUALITY CONTROL <sup>1</sup>			EUCAST INTERPRETATIVE CRITERIA <sup>2</sup>			EUCAST QUALITY CONTROL <sup>3</sup>			
			S ≥	SDD	I	R ≤	diameter (mm)	S ≥	R <	diameter (mm)	S ≥	R <	diameter (mm)		
Moxifloxacin	MOX	5	All staphylococci	24	21-23	20	<i>E. coli</i>	ATCC 25922	28-35	Enterobacterales except <i>M. organii</i> , <i>Proteus</i> spp. and <i>Serratia</i> spp.	22	22	<i>E. coli</i>	ATCC 25922	28-35
			<i>Haemophilus</i> spp.	18	-	-	<i>S. aureus</i>	ATCC 25923	28-35		<i>S. aureus</i>	ATCC 29213		25-31	
			<i>S. pneumoniae</i>	18	15-17	14	<i>P. aeruginosa</i>	ATCC 27853	17-25	Coagulase-negative staphylococci	25	25	<i>S. pneumoniae</i>	ATCC 49619	24-30
						<i>H. influenzae</i>	ATCC 49247	31-39	<i>S. aureus</i>		28	28		<i>H. influenzae</i>	ATCC 49766
							<i>S. pneumoniae</i>	ATCC 49619	25-31	Streptococcus groups A,B,C and G	19	19			
										<i>S. pneumoniae</i>	22	22			
										<i>H. influenzae</i>	28	28			
										<i>M. catarrhalis</i>	26	26			
										<i>Corynebacterium</i> spp.	25	25			
Mupirocin	MUP	200	<i>S. aureus</i> (Screening Test for HLMR)	7		6	<i>S. aureus</i>	ATCC 25923	29-38	<i>S. aureus</i> (for nasal decontamination)	30	18	<i>S. aureus</i>	ATCC 29213	31-37
							<i>S. aureus</i>	ATCC BAA-1708	6						
Nafcillin	NAF	1	Not available				<i>S. aureus</i>	ATCC 25923	16-22	Not available			Not available		
Nalidixic acid	NA	30	Enterobacterales	19	14-18	13	<i>E. coli</i>	ATCC 25922	22-28	<i>H. influenzae</i>	23	23	<i>E. coli</i>	ATCC 25922	22-28
											<i>M. catarrhalis</i>	23		23	<i>H. influenzae</i>
										<i>P. multocida</i>	23	23			
Neomycin	N	10	Not available				Not available			Not available			<i>E. coli</i>	ATCC 25922	14-20
													<i>S. aureus</i>	ATCC 29213	16-22
Netilmicin	NET	10	Not available				Not available			Enterobacterales	15	12	<i>E. coli</i>	ATCC 25922	18-24
										<i>Pseudomonas</i> spp.	12	12	<i>P. aeruginosa</i>	ATCC 27853	15-21
										<i>Acinetobacter</i> spp.	16	16	<i>S. aureus</i>	ATCC 29213	20-26
										<i>S. aureus</i>	18	18			
										Coagulase-negative Staphylococci	22	22			
Netilmicin	NET	30	Enterobacterales	15	13-14	12	<i>E. coli</i>	ATCC 25922	22-30	Not available			Not available		
			<i>P. aeruginosa</i>	15	13-14	12	<i>S. aureus</i>	ATCC 25923	22-31						
							<i>P. aeruginosa</i>	ATCC 27853	17-23						
Nitrofurantoin	F	100	Not available				Not available			<i>E. coli</i>	11	11	<i>E. coli</i>	ATCC 25922	17-23
											<i>S. saprophyticus</i>	13	13	<i>S. aureus</i>	ATCC 29213
										<i>E. faecalis</i>	15	15	<i>E. faecalis</i>	ATCC 29212	18-24
										<i>S. agalactiae</i>	15	15	<i>S. pneumoniae</i>	ATCC 49619	25-31
										<i>A. sanguinicola</i> and <i>urinae</i> (uncomplicated UTI only)	16	16			
Nitrofurantoin	F	300	<i>Enterobacterales</i>	17	15-16	14	<i>E. coli</i>	ATCC 25922	20-25	Not available			Not available		
			All staphylococci	17	15-16	14	<i>S. aureus</i>	ATCC 25923	18-22						
			<i>Enterococcus</i> spp.	17	15-16	14	<i>S. pneumoniae</i>	ATCC 49619	23-29						
Nitroxoline	NI	30	Not available				Not available			<i>E. coli</i>	15	15	<i>E. coli</i>	ATCC 25922	18-24

Antibiotic	CODE	µg	CLSI INTERPRETATIVE CRITERIA <sup>1</sup>				CLSI QUALITY CONTROL <sup>1</sup>			EUCAST INTERPRETATIVE CRITERIA <sup>2</sup>			EUCAST QUALITY CONTROL <sup>3</sup>			
			S ≥	SDD	I	R ≤	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)	S ≥	R <	diameter (mm)		
Norfloxacin	NOR	10	Enterobacterales	17	13-16	12	<i>E. coli</i>	ATCC 25922	28-35	Enterobacterales	24	24	<i>E. coli</i>	ATCC 25922	28-35	
			<i>P. aeruginosa</i>	17	13-16	12	<i>S. aureus</i>	ATCC 25923	17-28	(uncomplicated UTI only)			<i>S. aureus</i>	ATCC 29213	18-24	
			<i>Staphylococcus</i> spp.	17	13-16	12	<i>P. aeruginosa</i>	ATCC 27853	22-29	<i>Staphylococcus</i> spp.	17	17	<i>E. faecalis</i>	ATCC 29212	16-22	
			<i>Enterococcus</i> spp.	17	13-16	12	<i>S. pneumoniae</i>	ATCC 49619	15-21	<i>Enterococcus</i> spp.	12	12	<i>S. pneumoniae</i>	ATCC 49619	18-24	
										Streptococcus groups A,B,C and G	12	12				
												<i>S. pneumoniae</i>	10	10		
												<i>A. sanguinicola</i> and <i>urinae</i>	17	17		
												<i>Bacillus</i> spp. (screen only)	21	21		
Ofloxacin	OFX	5	Enterobacterales	16	13-15	12	<i>E. coli</i>	ATCC 25922	29-33	Enterobacterales	24	22	<i>E. coli</i>	ATCC 25922	29-33	
			<i>P. aeruginosa</i>	16	13-15	12	<i>S. aureus</i>	ATCC 25923	24-28	<i>S. aureus</i>	50	20	<i>S. aureus</i>	ATCC 29213	21-27	
			All staphylococci	18	15-17	14	<i>P. aeruginosa</i>	ATCC 27853	17-21	Coagulase-negative staphylococci	50	24	<i>S. pneumoniae</i>	ATCC 49619	18-24	
			<i>Haemophilus</i> spp.	16	-	-	<i>H. influenzae</i>	ATCC 49247	31-40	<i>S. pneumoniae</i>	50	13	<i>H. influenzae</i>	ATCC 49766	31-37	
			<i>S. pneumoniae</i>	16	13-15	12	<i>N. gonorrhoeae</i>	ATCC 49226	43-51	<i>H. influenzae</i>	30	30				
			Streptococcus spp. β-Hemolytic group	16	13-15	12	<i>S. pneumoniae</i>	ATCC 49619	16-21	<i>M. catarrhalis</i>	28	28				
			Streptococcus spp. Viridans group	16	13-15	12										
Omadacycline	OMC	30	Not available			<i>E. coli</i>	ATCC 25922	22-28	Not available			Not available				
						<i>S. aureus</i>	ATCC 25923	22-30								
						<i>H. influenzae</i>	ATCC 49247	21-29								
						<i>S. pneumoniae</i>	ATCC 49619	24-32								
Oxacillin	OX	1	<i>S. epidermidis</i>	18	-	17	<i>S. aureus</i>	ATCC 25923	18-24	<i>S. pseudintermedius</i> , <i>S. intermedius</i> , <i>S. schleiferi</i> and <i>S. coagulans</i> (screen only)	20	20	<i>S. pneumoniae</i>	ATCC 49619	8-14	
			<i>S. pseudintermedius</i> and <i>S. schleiferi</i>	18	-	17	<i>S. pneumoniae</i>	ATCC 49619	≤12	<i>S. pneumoniae</i>	20	*	<i>S. aureus</i>	ATCC 29213	19-25	
			<i>S. pneumoniae</i>	20	-	-										
Pefloxacin	PEF	5	<i>Salmonella</i> spp.	24	-	23	<i>E. coli</i>	ATCC 25922	25-33	<i>Salmonella</i> spp. <i>Vibrio</i> spp. (screen only)	24	24	<i>E. coli</i>	ATCC 25922	26-32	



Antibiotic	CODE	µg	CLSI INTERPRETATIVE CRITERIA <sup>1</sup>			CLSI QUALITY CONTROL <sup>1</sup>	diameter (mm)	EUCAST INTERPRETATIVE CRITERIA <sup>2</sup>			EUCAST QUALITY CONTROL <sup>3</sup>	diameter (mm)
			S ≥	SDD	I R ≤			S ≥	R <	diameter (mm)		
			Zone diameter (mm)									
Penicillin G	P	1 unit	Not available			Not available		<i>S. aureus</i> 26 26 <i>S. lugdunensis</i> 26 26 Streptococcus groups A,B,C and G (other than meningitis) 18 18 Streptococcus groups A,B,C and G (meningitis) 19 19 Viridans group streptococci 21 12 Viridans group streptococci (screen) 21 21 <i>H. influenzae</i> 12 * <i>Prevotella</i> spp. 20 20 <i>F. necrophorum</i> 25 25 <i>C. perfringens</i> 15 15 <i>C. acnes</i> 24 24 <i>L. monocytogenes</i> 13 13 <i>P. multocida</i> 17 17 <i>Corynebacterium</i> spp. other than <i>C. diphtheriae</i> and <i>C. ulcerans</i> 50 12 <i>C. diphtheriae</i> and <i>C. ulcerans</i> 50 12 <i>A. sanguinicola</i> and <i>urinae</i> 21 21 <i>K. kingae</i> 25 25 <i>B. anthracis</i> 50 18	<i>S. aureus</i> ATCC 29213 12-18 <i>S. pneumoniae</i> ATCC 49619 16-22 <i>H. influenzae</i> ATCC 49766 15-21 <i>H. influenzae</i> ATCC 49247 6-9 <i>C. perfringens</i> ATCC 13124 23-29			
Penicillin G	P	10 units	All staphylococci 29 - 28 <i>Enterococcus</i> spp. 15 - 14 <i>N. gonorrhoeae</i> 47 27-46 26 <i>Streptococcus</i> spp. β-Hemolytic group 24 - -	<i>S. aureus</i> ATCC 25923 26-37 <i>N. gonorrhoeae</i> ATCC 49226 26-34 <i>S. pneumoniae</i> ATCC 49619 24-30	Not available			Not available				
Piperacillin	PRL	30	Not available			Not available		Enterobacterales 20 20 <i>Pseudomonas</i> spp. 50 18	<i>E. coli</i> ATCC 25922 21-27 <i>E. coli</i> ATCC 35218 9-15			
Piperacillin	PRL	100	<i>P. aeruginosa</i> 22 18-21 17 <i>Acinetobacter</i> spp. 21 18-20 17	<i>E. coli</i> ATCC 25922 24-30 <i>P. aeruginosa</i> ATCC 27853 25-33 <i>E. coli</i> ATCC 35218 12-18	Not available			Not available				
Piperacillin-tazobactam	TZP	36 (30/6)	Not available			Not available		Enterobacterales 20 20 <i>Pseudomonas</i> spp. 50 18 <i>H. influenzae</i> 27 27 <i>Bacteroides</i> spp. 24 24 <i>Prevotella</i> spp. 26 26 <i>F. necrophorum</i> 32 32 <i>C. perfringens</i> 24 24 <i>C. acnes</i> 27 27 <i>A. xylooxidans</i> 26 26 <i>Vibrio</i> spp. 26 26	<i>E. coli</i> ATCC 25922 21-27 <i>P. aeruginosa</i> ATCC 27853 23-29 <i>E. coli</i> ATCC 35218 21-27 <i>K. pneumoniae</i> ATCC 700603 14-20 <i>H. influenzae</i> ATCC 49766 32-40 <i>B. fragilis</i> ATCC 25285 29-35 <i>C. perfringens</i> ATCC 13124 30-36			

Antibiotic	CODE	µg	CLSI INTERPRETATIVE CRITERIA <sup>1</sup>				CLSI QUALITY CONTROL <sup>1</sup>			EUCAST INTERPRETATIVE CRITERIA <sup>2</sup>			EUCAST QUALITY CONTROL <sup>3</sup>					
			S ≥	SDD	I	R ≤	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)							
Piperacillin-tazobactam	TZP	110 (100/10)	<i>Enterobacterales</i>	25	21-24	20	<i>E. coli</i>	ATCC 25922	24-30	Not available		Not available						
			<i>P. aeruginosa</i>	22		18-21	17	<i>S. aureus</i>	ATCC 25923				27-36					
			<i>Acinetobacter</i> spp.	21		18-20	17	<i>P. aeruginosa</i>	ATCC 27853				25-33					
			<i>Haemophilus</i> spp.	21		-	-	<i>E. coli</i>	ATCC 35218				24-30					
Polymyxin B	PB	300 units	Not available			<i>E. coli</i>	ATCC 25922	13-19	Not available		Not available							
						<i>P. aeruginosa</i>	ATCC 27853	14-18										
Quinupristin-dalfopristin	QDA	15	<i>S. aureus</i>	19	16-18	15	<i>S. aureus</i>	ATCC 25923	21-28	<i>Staphylococcus</i> spp.	21	21	<i>S. aureus</i>	ATCC 29213	21-27			
			<i>Enterococcus</i> spp.	19	16-18	15	<i>H. influenzae</i>	ATCC 49247	15-21				<i>E. faecium</i>	ATCC 29212	11-17			
			<i>S. pneumoniae</i>	19	16-18	15	<i>S. pneumoniae</i>	ATCC 49619	19-24									
			<i>Streptococcus</i> spp. β-Hemolytic group	19	16-18	15												
			<i>Streptococcus</i> spp. Viridans group	19	16-18	15												
Rifampicin	RD	5	All staphylococci	20	17-19	16	<i>E. coli</i>	ATCC 25922	8-10	<i>S. aureus</i>	26	26	<i>S. aureus</i>	ATCC 29213	30-36			
			<i>Enterococcus</i> spp.	20	17-19	16	<i>S. aureus</i>	ATCC 25923	26-34				Coagulase-negative staphylococci	30	30	<i>S. pneumoniae</i>	ATCC 49619	26-32
			<i>Haemophilus</i> spp.	20	17-19	16	<i>H. influenzae</i>	ATCC 49247	22-30				<i>Streptococcus</i> groups A,B,C and G	21	21	<i>H. influenzae</i>	ATCC 49766	21-27
			<i>S. pneumoniae</i>	19	17-18	16	<i>S. pneumoniae</i>	ATCC 49619	25-30				<i>S. pneumoniae</i>	22	22			
			<i>N. meningitidis</i>	25	20-24	19							<i>H. influenzae</i>	18	18			
													<i>Corynebacterium</i> spp. other than <i>C. diphtheriae</i> and <i>C. ulcerans</i>	30	30			
Spectinomycin	SPC	100	<i>N. gonorrhoeae</i>	18	15-17	14	<i>N. gonorrhoeae</i>	ATCC 49226	23-29	Not available		Not available						
Streptomycin	S	10	<i>Enterobacterales</i>	15	12-14	11	<i>E. coli</i>	ATCC 25922	12-20	<i>B. melitensis</i>	(15)	(15)	<i>E. coli</i>	ATCC 25922	12-20			
						<i>S. aureus</i>	ATCC 25923	14-22										
Streptomycin	S	300	<i>Enterococcus</i> spp. (Screening Test for HLAR)	10		6	<i>E. faecalis</i>	ATCC 29212	14-20	<i>Enterococcus</i> spp. (Test for HLAR)	19	19	<i>E. faecalis</i>	ATCC 29212	14-20			
						<i>E. faecalis</i>	ATCC 51299	6	<i>E. faecalis</i>				ATCC 51299	6				
Sulfonamide	S3	300	<i>Enterobacterales</i>	17	13-16	12	<i>E. coli</i>	ATCC 25922	15-23	Not available		Not available						
			All staphylococci	17	13-16	12	<i>S. aureus</i>	ATCC 25923	24-34									
Tedizolid	TZD	2	<i>S. aureus</i> , including MRSA	19	16-18	15	<i>S. aureus</i>	ATCC 25923	19-25	<i>Staphylococcus</i> spp.	20	20	<i>S. aureus</i>	ATCC 29213	19-25			
			<i>Streptococcus</i> spp. β-Hemolytic group	15	-	-	<i>E. faecalis</i>	ATCC 29212	14-21				<i>Streptococcus</i> groups A, B, C and G	18	18	<i>S. pneumoniae</i>	ATCC 49619	19-25
			<i>Streptococcus</i> spp. Viridans group	18	-	-	<i>S. pneumoniae</i>	ATCC 49619	18-25				<i>S. anginosus</i> group	18	18			
Teicoplanin	TEC	30	<i>Enterococcus</i> spp.	14	11-13	10	<i>S. aureus</i>	ATCC 25923	15-21	<i>Enterococcus</i> spp.	16	16	<i>E. faecalis</i>	ATCC 29212	15-21			
									<i>Streptococcus</i> groups A,B,C and G				15	15	<i>S. pneumoniae</i>	ATCC 49619	18-24	
									<i>S. pneumoniae</i>				17	17	<i>E. faecalis</i>	ATCC 51299	16-20	
									<i>Viridans</i> group streptococci				16	16				

Antibiotic	CODE	µg	CLSI INTERPRETATIVE CRITERIA <sup>1</sup>			CLSI QUALITY CONTROL <sup>1</sup>			EUCAST INTERPRETATIVE CRITERIA <sup>2</sup>			EUCAST QUALITY CONTROL <sup>3</sup>		
			S ≥	SDD	I R ≤	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)	diameter (mm)			
Telithromycin	TEL	15	<i>Haemophilus</i> spp.	15	12-14	11	<i>S. aureus</i> ATCC 25923 <i>H. influenzae</i> ATCC 49247 <i>S. pneumoniae</i> ATCC 49619	24-30 17-23 27-33	Streptococcus groups A,B,C and G <i>S. pneumoniae</i> <i>M. catarrhalis</i>	20 23 23	20 23 23	<i>S. pneumoniae</i> ATCC 49619 <i>H. influenzae</i> ATCC 49766	27-33 14-20	
Temocillin	TMO	30	Not available			Not available			<i>E. coli</i> , <i>Klebsiella</i> spp. (except <i>K. aerogenes</i> ), <i>P. mirabilis</i>	50	17	<i>E. coli</i>	ATCC 25922 16-22	
Tetracycline	TE	30	Enterobacterales <i>Acinetobacter</i> spp. All staphylococci <i>Enterococcus</i> spp. <i>Haemophilus</i> spp. <i>N. gonorrhoeae</i> <i>S. pneumoniae</i> <i>Streptococcus</i> spp. β-Hemolytic group <i>Streptococcus</i> spp. Viridans group	15 15 19 19 29 38 28 23 23	12-14 12-14 15-18 15-18 26-28 31-37 25-27 19-22 19-22	11 11 14 14 25 30 24 18 18	<i>E. coli</i> ATCC 25922 <i>S. aureus</i> ATCC 25923 <i>H. influenzae</i> ATCC 49247 <i>N. gonorrhoeae</i> ATCC 49226 <i>S. pneumoniae</i> ATCC 49619	18-25 24-30 14-22 30-42 27-31	<i>Staphylococcus</i> spp. <i>Streptococcus</i> groups A,B,C and G <i>S. pneumoniae</i> <i>H. influenzae</i> <i>M. catarrhalis</i> <i>P. multocida</i> <i>C. jejuni</i> <i>C. coli</i> <i>Corynebacterium</i> spp. other than <i>C. diphtheriae</i> and <i>C. ulcerans</i> <i>C. diphtheriae</i> and <i>C. ulcerans</i> <i>K. kingae</i> <i>Vibrio</i> spp. <i>B. pseudomallei</i> <i>B. anthracis</i> <i>B. melitensis</i>	22 23 25 25 26 24 30 30 24	22 23 25 25 26 24 30 30 24	<i>S. aureus</i> ATCC 29213 <i>S. pneumoniae</i> ATCC 49619 <i>H. influenzae</i> ATCC 49766 <i>C. jejuni</i> ATCC 33560	23-31 28-34 28-34 30-38	
Ticarcillin	TC	75	Not available			<i>E. coli</i> ATCC 25922 <i>P. aeruginosa</i> ATCC 27853 <i>E. coli</i> ATCC 35218	24-30 21-27 6	Not available				<i>E. coli</i>	ATCC 25922 24-30	
Ticarcillin-clavulanic acid	TTC	85 (75/10)	Enterobacterales <i>P. aeruginosa</i> <i>Acinetobacter</i> spp.	20 24 20	15-19 16-23 15-19	14 15 14	<i>E. coli</i> ATCC 25922 <i>S. aureus</i> ATCC 25923 <i>P. aeruginosa</i> ATCC 27853 <i>E. coli</i> ATCC 35218	24-30 29-37 20-28 21-25	Enterobacterales <i>Pseudomonas</i> spp.	23 50	20 18	<i>E. coli</i> ATCC 25922 <i>P. aeruginosa</i> ATCC 27853 <i>E. coli</i> ATCC 35218	24-30 20-28 21-25	
Tigecycline	TGC	15	Not available			<i>E. coli</i> ATCC 25922 <i>S. aureus</i> ATCC 25923 <i>P. aeruginosa</i> ATCC 27853 <i>H. influenzae</i> ATCC 49247 <i>N. gonorrhoeae</i> ATCC 49226 <i>S. pneumoniae</i> ATCC 49619	20-27 20-25 9-13 23-31 30-40 23-29	<i>E. coli</i> and <i>C. koseri</i> <i>Staphylococcus</i> spp. <i>E. faecalis</i> <i>E. faecium</i> <i>Streptococcus</i> groups A,B,C and G	18 19 20 22 19	18 19 20 22 19	<i>E. coli</i> ATCC 25922 <i>S. aureus</i> ATCC 29213 <i>E. faecalis</i> ATCC 29212 <i>S. pneumoniae</i> ATCC 49619	20-27 19-25 20-26 24-30		
Tobramycin	TOB	10	Enterobacterales <i>P. aeruginosa</i> <i>Acinetobacter</i> spp.	17 19 15	13-16 13-18 13-14	12 12 12	<i>E. coli</i> ATCC 25922 <i>S. aureus</i> ATCC 25923 <i>P. aeruginosa</i> ATCC 27853	18-26 19-29 20-26	Enterobacterales <i>Pseudomonas</i> spp. <i>Acinetobacter</i> spp. <i>S. aureus</i> Coagulase-negative staphylococci	16 18 17 (18) (20)	16 18 17 (18) (20)	<i>E. coli</i> ATCC 25922 <i>P. aeruginosa</i> ATCC 27853 <i>S. aureus</i> ATCC 29213	18-26 20-26 20-26	





Antibiotic	CODE	µg	CLSI INTERPRETATIVE CRITERIA <sup>1</sup>			CLSI QUALITY CONTROL <sup>1</sup>			EUCAST INTERPRETATIVE CRITERIA <sup>2</sup>			EUCAST QUALITY CONTROL <sup>3</sup>				
			S ≥	SDD	I	R ≤	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)					
Trimethoprim	TM	5	Enterobacterales	16	11-15	10	<i>E. coli</i>	ATCC 25922	21-28	Enterobacterales	15	15	<i>E. coli</i>	ATCC 25922	21-28	
			All staphylococci	16	11-15	10	<i>S. aureus</i>	ATCC 25923	19-26	<i>Staphylococcus</i> spp.	14	14	<i>S. aureus</i>	ATCC 29213	22-28	
Trimethoprim-sulfamethoxazole	SXT	25 (1.25/23.75)	Enterobacterales	16	11-15	10	<i>E. coli</i>	ATCC 25922	23-29	Enterobacterales	14	11	<i>E. coli</i>	ATCC 25922	23-29	
			<i>Acinetobacter</i> spp.	16	11-15	10	<i>S. aureus</i>	ATCC 25923	24-32	<i>S. maltophilia</i>	50	16	<i>S. aureus</i>	ATCC 29213	26-32	
			<i>S. maltophilia</i>	16	11-15	10	<i>H. influenzae</i>	ATCC 49247	24-32	<i>Acinetobacter</i> spp.	14	11	<i>E. faecalis</i>	ATCC 29212	26-34	
			All staphylococci	16	11-15	10	<i>S. pneumoniae</i>	ATCC 49619	20-28	<i>Staphylococcus</i> spp.	17	14	<i>S. pneumoniae</i>	ATCC 49619	18-26	
			<i>Haemophilus</i> spp.	16	11-15	10				Streptococcus groups A,B,C and G	18	15	<i>H. influenzae</i>	ATCC 49766	27-35	
			<i>S. pneumoniae</i>	19	16-18	15				<i>S. pneumoniae</i>	13	10				
			<i>N. meningitidis</i>	30	26-29	25				<i>H. influenzae</i>	23	20				
										<i>M. catarrhalis</i>	18	15				
										<i>L. monocytogenes</i>	29	29				
										<i>P. multocida</i>	23	23				
										<i>C. diphtheriae</i> and <i>C. ulcerans</i>	23	23				
										<i>K. kingae</i>	28	28				
										<i>Aeromonas</i> spp.	19	16				
										<i>A. xylooxidans</i>	26	26				
										<i>Vibrio</i> spp.	21	21				
										<i>B. pseudomallei</i>	50	17				
										<i>B. melitensis</i>	29	29				
Vancomycin	VA	5	Not available			Not available			Enterococci other than <i>E. casseliflavus</i> and <i>E. gallinarum</i>	12	12	<i>E. faecalis</i>	ATCC 29212	10-16		
										Streptococcus groups A,B,C and G	13	13	<i>S. pneumoniae</i>	ATCC 49619	17-23	
									<i>S. pneumoniae</i>	16	16	<i>E. faecalis</i>	ATCC 51299	6-12		
									Viridans group streptococci	15	15	<i>C. perfringens</i>	ATCC 13124	14-20		
									<i>C. perfringens</i>	12	12					
									<i>C. acnes</i>	22	22					
									<i>Corynebacterium</i> spp.	17	17					
									<i>A. sanguinicola</i> and <i>urinae</i>	16	16					
									<i>Bacillus</i> spp. except <i>B. anthracis</i>	10	10					
									<i>B. anthracis</i>	(10)	(10)					
Vancomycin	VA	30	<i>Enterococcus</i> spp.	17	15-16	14	<i>S. aureus</i>	ATCC 25923	17-21	Not available			Not available			
			<i>S. pneumoniae</i>	17	-	-	<i>S. pneumoniae</i>	ATCC 49619	20-27							
			Streptococcus spp. β-Hemolytic Group	17	-	-										
			Streptococcus spp.	17	-	-										
			Viridans Group													

\* Refer to EUCAST breakpoint tables.

**Note:** For information on how to use breakpoints in brackets, see <https://www.eucast.org/eucastguidancedocuments/>.

## References

1. CLSI. Performance Standards for Antimicrobial Susceptibility Testing; 34th ed. CLSI Supplement M100S. Wayne, PA: Clinical and Laboratory Standards Institute; 2024.
2. The European Committee on Antimicrobial Susceptibility Testing. Breakpoint tables for interpretation of MICs and zone diameters. Version 14.0, 2024. <http://www.eucast.org>
3. The European Committee on Antimicrobial Susceptibility Testing. Routine and extended internal quality control for MIC determination and disk diffusion as recommended by EUCAST. Version 14.0, 2024. <http://www.eucast.org>



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## Veterinary

Antibiotic	CODE	µg	INTERPRETATIVE CRITERIA <sup>4</sup>	Swine		Cattle		Poultry		Horses		Dogs		Cats							
				S ≥	I	R ≤	S ≥	I	R ≤	S ≥	I	R ≤	S ≥	I	R ≤	S ≥	I	R ≤			
				diameter (mm)																	
Cefpodoxime	PX	10	<i>E. coli</i> , <i>P. mirabilis</i> -											21	18-20	17					
			<i>S. aureus</i> and <i>S. pseudintermedius</i>												21	18-20	17				
			<i>S. canis</i>													21	18-20	17			
			<i>P. multocida</i>																21	18-20	17
Ceftiofur	FUR	30	<i>E. coli</i>				21	18-20	17												
			<i>Salmonella choleraesuis</i>	21	18-20	17															
			<i>S. aureus</i>				21	18-20	17												
			<i>S. equi</i>									22	-	-							
			<i>S. suis</i>	21	18-20	17															
			<i>S. agalactiae</i> , <i>S. dysgalactiae</i> , <i>S. uberis</i>				21	18-20	17												
			<i>M. haemolytica</i>				21	18-20	17												
			<i>P. multocida</i>	21	18-20	17	21	18-20	17												
Clindamycin	CD	2	<i>A. pleuropneumoniae</i>	21	18-20	17															
			<i>H. somni</i>				21	18-20	17												
Doxycycline	DXT	30	<i>Staphylococcus</i> spp.											21	15-20	14					
			<i>Streptococcus</i> spp. β-Hemolytic Group												21	15-20	14				
Enrofloxacin	ENR	5	<i>S. pseudintermedius</i>											25	21-24	20					
			Enterobacteriaceae												23	17-22	16	23	17-22	16	
			<i>E. coli</i>							23	17-22	16									
			<i>P. aeruginosa</i>															23	17-22	16	
			<i>Staphylococcus</i> spp.													23	17-22	16	23	17-22	16
			<i>Streptococcus</i> spp.													23	17-22	16	23	17-22	16
			<i>M. haemolytica</i>				21	17-20	16												
			<i>P. multocida</i>	23	19-22	18	21	17-20	16												
Gentamicin	CN	10	<i>A. pleuropneumoniae</i>	23	19-22	18															
			<i>H. somni</i>				21	17-20	16												
			Enterobacteriaceae										16	13-15	12	16	13-15	12			
Florfenicol	FFC	30	<i>P. aeruginosa</i>										16	13-15	12	16	13-15	12			
			<i>A. pleuropneumoniae</i>										16	13-15	12						
			<i>S. suis</i>	22	19-21	18															
			<i>B. bronchiseptica</i>	22	19-21	18															
			<i>M. haemolytica</i>				19	15-18	14												
			<i>P. multocida</i>	22	19-21	18													19	15-18	14
Marbofloxacin	MAR	5	<i>A. pleuropneumoniae</i>	22	19-21	18															
			<i>H. somni</i>				19	15-18	14												
			Enterobacteriaceae												20	15-19	14	20	15-19	14	
			<i>Staphylococcus</i> spp.											20	15-19	14	20	15-19	14		
			<i>Streptococcus</i> spp.												20	15-19	14	20	15-19	14	

Antibiotic	CODE	µg	INTERPRETATIVE CRITERIA <sup>4</sup>	Swine			Cattle			Poultry			Horses			Dogs			Cats					
				S ≥	I	R ≤	S ≥	I	R ≤	S ≥	I	R ≤	S ≥	I	R ≤	S ≥	I	R ≤	S ≥	I	R ≤			
				diameter (mm)																				
Spectinomycin	SPC	100	<i>M. haemolytica</i>				14	11-13	10															
			<i>P. multocida</i>				14	11-13	10															
			<i>H. somni</i>				14	11-13	10															
Tetracycline	TE	30	<i>Staphylococcus</i> spp.													23	18-22	17						
Tiamulin	T	30	<i>A. pleuropneumoniae</i>	9	-	8																		
Tilmicosin	TIL	15	<i>M. haemolytica</i>				14	11-13	10															
			<i>P. multocida</i>	11	-	10																		
			<i>A. pleuropneumoniae</i>	11	-	10																		

For QC ranges not shown below, see the clinical section

Antibiotic	CODE	µg	<i>E. coli</i> ATCC® 25922	<i>S. aureus</i> ATCC® 25923	<i>P. aeruginosa</i> ATCC® 27853	<i>S. pneumoniae</i> ATCC® 49619
			QUALITY CONTROL zone diameter (mm)			
Apramycin	AP	15	15-20	17-24	13-18	-
Ceftiofur	FUR	30	26-31	27-31	14-18	32-34
Enrofloxacin	ENR	5	32-40	27-31	15-19	-
Florfenicol	FFC	30	22-28	22-29	-	24-31
Marbofloxacin	MAR	5	29-37	24-30	20-25	-
Neomycin	N	30	17-23	18-26	-	-
Spectinomycin	SPC	100	21-25	13-17	10-14	-
Tiamulin	T	30	-	25-32	-	-
Tilmicosin	TIL	15	-	17-21	-	-
Tylosin	TY	30	-	18-26	-	-

#### References (Cont.)

- CLSI. Performance Standards for Antimicrobial Disk and Dilution Susceptibility Tests for Bacteria Isolated From Animals; 4th ed. CLSI supplement VET08. Wayne, PA: Clinical and Laboratory Standards Institute; 2018.



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