



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	R ≤	diameter (mm)	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)	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>	18	18	<i>H. influenzae</i>	ATCC 49247	6-12		
									<i>Prevotella</i> spp.	25	25					
									<i>F. necrophorum</i>	27	27					
									<i>C. perfringens</i>	23	23					
									<i>C. acnes</i>	23	23					
									<i>L. monocytogenes</i>	16	16					
									<i>P. multocida</i>	17	17					
									<i>A. sanguinicola</i> and <i>urinae</i>	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. β-Hemolytic group	24	-	-	<i>H. influenzae</i>	ATCC 49247	13-21							
							<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>Bacteroides</i> spp.	25	25	<i>C. perfringens</i>	ATCC 13124	32-38	
										<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. β-Hemolytic group	18	14-17	13										
			<i>Streptococcus</i> spp. Viridans group	18	14-17	13										
			<i>N. meningitidis</i>	20	-	-										
Azlocillin	AZL	75	Not available			<i>P. aeruginosa</i>			ATCC 27853	24-30	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					
							<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

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)						
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 15-17 -	- 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>			22 22	22 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 -	22 14 -	<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				

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

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)					
Ceftazidime-avibactam	CZA	50 (30/20)	Enterobacterales <i>P. aeruginosa</i>	21 21			<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				<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	18	<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	19	<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>	25 25 27 32 24 33 30	22 25 27 32 21 33 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	14	<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
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> <i>S. aureus</i> <i>S. pneumoniae</i>	ATCC 25922 ATCC 25923 ATCC 49619	15-21 29-37 26-32	Not available			Not available			

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)						
Chloramphenicol	C	30	<i>Enterobacterales</i>	18	13-17	12	<i>E. coli</i>	ATCC 25922	21-27	<i>Staphylococcus</i> spp.	18	18	<i>E. coli</i>	ATCC 25922	21-27	
			All staphylococci	18	13-17	12	<i>S. aureus</i>	ATCC 25923	19-26	Streptococcus groups	19	19	<i>S. aureus</i>	ATCC 29213	20-28	
			<i>Enterococcus</i> spp.	18	13-17	12	<i>H. influenzae</i>	ATCC 49247	31-40	A,B,C and G			<i>S. pneumoniae</i>	ATCC 49619	24-30	
			<i>Haemophilus</i> spp.	29	26-28	25	<i>S. pneumoniae</i>	ATCC 49619	23-27	<i>S. pneumoniae</i>	21	21	<i>H. influenzae</i>	ATCC 49766	31-37	
			<i>S. pneumoniae</i>	21	-	20				<i>H. influenzae</i>	28	28				
			<i>Streptococcus</i> spp. β-Hemolytic group	21	18-20	17				<i>M. catarrhalis</i>	30	30				
			<i>Streptococcus</i> spp. Viridans group	21	18-20	17				<i>B. pseudomallei</i>	50	22				
			<i>N. meningitidis</i>	26	20-25	19										
Cinoxacin	CIN	100	<i>Enterobacterales</i>	19	15-18	14	<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	<i>Enterobacterales</i> (indications other than meningitis)	25	22	<i>E. coli</i>	ATCC 25922	29-37	
			<i>Salmonella</i> spp.	31	21-30	20	<i>S. aureus</i>	ATCC 25923	22-30	<i>P. aeruginosa</i>	50	26	<i>P. aeruginosa</i>	ATCC 27853	25-33	
			<i>P. aeruginosa</i>	25	19-24	18	<i>P. aeruginosa</i>	ATCC 27853	25-33	<i>Pseudomonas</i> spp.	50	26	<i>S. aureus</i>	ATCC 29213	21-27	
			<i>Acinetobacter</i> spp.	21	16-20	15	<i>H. influenzae</i>	ATCC 49247	34-42	<i>Acinetobacter</i> spp.	50	21	<i>E. faecalis</i>	ATCC 29212	19-25	
			All staphylococci	21	16-20	15	<i>N. gonorrhoeae</i>	ATCC 49226	48-58	<i>S. aureus</i>	50	21	<i>S. pneumoniae</i>	ATCC 49619	22-28	
			<i>Enterococcus</i> spp.	21	16-20	15				Coagulase-negative staphylococci	50	24	<i>H. influenzae</i>	ATCC 49766	32-40	
			<i>Haemophilus</i> spp.	21	-	-				<i>Enterococcus</i> spp. (uncomplicated UTI only)	15	15	<i>C. jejuni</i>	ATCC 33560	34-42	
			<i>N. gonorrhoeae</i>	41	28-40	27				<i>H. influenzae</i> (indications other than meningitis)	30	30				
			<i>N. Meningitidis</i>	35	33-34	32				<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							
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							
			<i>Streptococcus</i> spp. β-Hemolytic group	21	17-20	16										
			<i>Streptococcus</i> spp. Viridans group	21	17-20	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	R ≤	diameter (mm)	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)			
Clindamycin	CD	2	All staphylococci	21	15-20	14	<i>S. aureus</i> ATCC 25923	24-30	<i>Staphylococcus</i> spp.	22	22	<i>S. aureus</i> ATCC 29213	23-29	
			<i>S. pneumoniae</i>	19	16-18	15	<i>S. pneumoniae</i> ATCC 49619	19-25	Streptococcus groups A,B,C and G	17	17	<i>S. pneumoniae</i> ATCC 49619	22-28	
			<i>Streptococcus</i> spp. β-Hemolytic Group	19	16-18	15			<i>S. pneumoniae</i>	19	19	<i>B. fragilis</i> ATCC 25285	23-29	
			<i>Streptococcus</i> spp. Viridans Group	19	16-18	15			Viridans group streptococci	19	19	<i>C. perfringens</i> ATCC 13124	20-26	
									<i>Bacteroides</i> spp.	(10)	(10)			
Colistin sulfate	CS	10	Not available			<i>E. coli</i> ATCC 25922	11-17	Not available			Not available			
						<i>P. aeruginosa</i> ATCC 27853	11-17							
Doripenem	DOR	10	Enterobacterales	23	20-22	19	<i>E. coli</i> ATCC 25922	27-35	Enterobacterales	24	21	<i>E. coli</i> ATCC 25922	27-35	
			<i>P. aeruginosa</i>	19	16-18	15	<i>S. aureus</i> ATCC 25923	33-42	<i>Pseudomonas</i> spp.	50	22	<i>P. aeruginosa</i> ATCC 27853	28-35	
			<i>Acinetobacter</i> spp.	18	15-17	14	<i>P. aeruginosa</i> ATCC 27853	28-35	<i>Acinetobacter</i> spp.	50	22	<i>S. pneumoniae</i> ATCC 49619	31-37	
			<i>Haemophilus</i> spp.	16	-	1	<i>H. influenzae</i> ATCC 49247	21-31	<i>H. influenzae</i>	23	23	<i>H. influenzae</i> ATCC 49766	26-32	
								<i>S. pneumoniae</i> ATCC 49619	30-38	<i>M. catarrhalis</i>	30	30		
Doxycycline	DXT	30	Enterobacterales	14	11-13	10	<i>E. coli</i> ATCC 25922	18-24	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	17-24	<i>E. coli</i>	17	17	<i>E. coli</i> ATCC 25922	18-24		
						<i>S. aureus</i> ATCC 25923	19-26	<i>S. aureus</i>	20	20	<i>S. aureus</i> ATCC 29213	20-26		
						<i>S. pneumoniae</i> ATCC 49619	23-30	<i>E. faecalis</i>	22	22	<i>E. faecalis</i> ATCC 29212	20-26		
								<i>E. faecium</i>	24	24	<i>S. pneumoniae</i> ATCC 49619	24-30		
								Viridans group streptococci	17	17				
Ertapenem	ETP	10	Enterobacterales	22	19-21	18	<i>E. coli</i> ATCC 25922	29-36	Enterobacterales	25	25	<i>E. coli</i> ATCC 25922	29-36	
			<i>Haemophilus</i> spp.	19	-	-	<i>S. aureus</i> ATCC 25923	24-31	Viridans group streptococci	22	22	<i>S. pneumoniae</i> ATCC 49619	28-34	
						<i>P. aeruginosa</i> ATCC 27853	13-21	<i>H. influenzae</i>	23	23	<i>H. influenzae</i> ATCC 49766	27-33		
						<i>H. influenzae</i> ATCC 49247	20-28	<i>M. catarrhalis</i>	29	29	<i>C. perfringens</i> ATCC 13124	31-37		
						<i>H. influenzae</i> ATCC 49766	27-33	<i>Bacteroides</i> spp.	(23)	(23)				
						<i>S. pneumoniae</i> ATCC 49619	28-35	<i>Prevotella</i> spp.	29	29				
								<i>F. necrophorum</i>	35	35				
								<i>C. perfringens</i>	24	24				
								<i>C. acnes</i>	28	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	R ≤	diameter (mm)	diameter (mm)	S ≥	R <	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. β-Hemolytic group	21	16-20	15			<i>H. influenzae</i>	50	10	<i>C. jejuni</i> ATCC 33560	27-35	
			<i>Streptococcus</i> spp. Viridans group	21	16-20	15			<i>M. catarrhalis</i>	23	23			
									<i>L. monocytogenes</i>	25	25			
									<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						
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	Enterobacterales (iv)	21	21	<i>E. coli</i> ATCC 25922	26-34	
			<i>Enterococcus</i> spp.	16	13-15	12	<i>S. aureus</i> ATCC 25923	25-33	<i>E. coli</i> (oral)	24	24			
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		
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. β-Hemolytic group	21	18-20	17								
			<i>Streptococcus</i> spp. Viridans group	21	18-20	17								
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)			
Gentamicin	CN	30	Not available			Not available			<i>Coagulase-negative staphylococci</i>	(22)	(22)			
									<i>Corynebacterium</i> spp.	23	23			
Gentamicin	CN	120	Not available			Not available			<i>Enterococcus</i> spp. (Test for HLAR)	8	8	<i>E. faecalis</i> ATCC 29212	12-18	
			<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	
						<i>E. faecalis</i> ATCC 51299	6							



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

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	R ≤	diameter (mm)	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)	diameter (mm)			
Linezolid	LNZ	10	Not available			Not available			Staphylococcus spp.	21	21	S. aureus	ATCC 29213	21-27	
									Enterococcus spp.	20	20	E. faecalis	ATCC 29212	19-25	
									Streptococcus groups A,B,C and G	19	19	S. pneumoniae	ATCC 49619	23-29	
									S. pneumoniae	22	22	C. perfringens	ATCC 13124	22-28	
									C. acnes	34	34				
									Corynebacterium spp. other than C. diphtheriae and C. ulcerans	25	25				
									C. diphtheriae and C. ulcerans	25	25				
Linezolid	LNZ	30	All staphylococci	21	-	20	S. aureus	ATCC 25923	25-32	Not available			Not available		
			Enterococcus spp.	23	21-22	20	S. pneumoniae	ATCC 49619	25-34						
			S. pneumoniae	21	-	-									
			Streptococcus spp. β-Hemolytic group	21	-	-									
			Streptococcus spp. Viridans group	21	-	-									
Lomefloxacin	LOM	10	Enterobacterales	22	19-21	18	E. coli	ATCC 25922	27-33	Not available			Not available		
			P. aeruginosa	22	19-21	18	S. aureus	ATCC 25923	23-29						
			All staphylococci	22	19-21	18	P. aeruginosa	ATCC 27853	22-28						
			Haemophilus spp.	22	-	-	H. influenzae	ATCC 49247	33-41						
							N. gonorrhoeae	ATCC 49226	45-54						
Mecillinam	MEC	10	Enterobacterales	15	12-14	11	E. coli	ATCC 25922	24-30	E. coli, Citrobacter spp., Klebsiella spp., Raoultella spp., Enterobacter spp. and P. mirabilis	15	15	E. coli	ATCC 25922	24-30

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	R ≤	diameter (mm)	diameter (mm)	S ≥	R <	diameter (mm)	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>P. aeruginosa</i> (other than meningitis)	20	14	<i>S. pneumoniae</i>	ATCC 49619	30-38		
			<i>B. cepacia</i>	20	16-19	15	<i>K. pneumoniae</i>	ATCC BAA-1705	11-18	<i>Pseudomonas</i> other than <i>P. aeruginosa</i> (other than meningitis)	24	18	<i>H. influenzae</i>	ATCC 49766	27-35		
			<i>Haemophilus</i> spp.	20	-	-	<i>H. influenzae</i>	ATCC 49247	20-28	<i>P. aeruginosa</i> (meningitis)	20	20	<i>B. fragilis</i>	ATCC 25285	32-39		
			<i>N. meningitidis</i>	30	-	-	<i>S. pneumoniae</i>	ATCC 49619	28-35	<i>Acinetobacter</i> spp. (other than meningitis)	21	15	<i>C. perfringens</i>	ATCC 13124	34-40		
										<i>Acinetobacter</i> spp. (meningitis)	21	21					
										Viridans group streptococci	25	25					
										<i>H. influenzae</i>	20	20					
										<i>Bacteroides</i> spp.	28	28					
										<i>Prevotella</i> spp.	34	34					
										<i>F. necrophorum</i>	35	35					
			Metronidazole	MTZ	5	Not available			Not available			<i>C. perfringens</i>	25	25	<i>B. fragilis</i>	ATCC 25285	29-36
									<i>F. necrophorum</i>	22	22	<i>C. perfringens</i>	ATCC 13124	20-26			
										30	30						
										16	16						
Minocycline	MN	30	Enterobacterales	16	13-15	12	<i>E. coli</i>	ATCC 25922	19-25	<i>Staphylococcus</i> spp.	23	23	<i>S. aureus</i>	ATCC 29213	23-29		
			<i>Acinetobacter</i> spp.	16	13-15	12	<i>S. aureus</i>	ATCC 25923	25-30	Streptococcus groups A,B,C and G	23	23	<i>S. pneumoniae</i>	ATCC 49619	25-31		
			<i>B. cepacia</i>	19	15-18	14				<i>S. pneumoniae</i>	24	24	<i>H. influenzae</i>	ATCC 49766	26-32		
			<i>S. maltophilia</i>	19	15-18	14				<i>H. influenzae</i>	24	24					
			All staphylococci	19	15-18	14				<i>M. catarrhalis</i>	25	25					
			<i>Enterococcus</i> spp.	19	15-18	14											
			<i>N. meningitidis</i>	26	-	-											
Moxifloxacin	MOX	5	All staphylococci	24	21-23	20	<i>E. coli</i>	ATCC 25922	28-35	Enterobacterales	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>	25	25	<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	28	28	<i>S. pneumoniae</i>	ATCC 49619	24-30		
							<i>H. influenzae</i>	ATCC 49247	31-39	Streptococcus groups A,B,C and G	19	19	<i>H. influenzae</i>	ATCC 49766	30-36		
							<i>S. pneumoniae</i>	ATCC 49619	25-31	<i>S. pneumoniae</i>	22	22					
										<i>H. influenzae</i>	28	28					
							<i>M. catarrhalis</i>	26	26								
							<i>Corynebacterium</i> spp.	25	25								

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	R ≤	diameter (mm)	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)				
Mupirocin	MUP	200	<i>S. aureus</i> (Screening Test for HLMR)	7	6	<i>S. aureus</i> <i>S. aureus</i>	ATCC 25923 ATCC BAA-1708	29-38 6	<i>S. aureus</i> (for nasal decontamination)	30	18	<i>S. aureus</i>	ATCC 29213	31-37	
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> <i>M. catarrhalis</i> <i>P. multocida</i>	23 23 23	23 23 23	<i>E. coli</i> <i>H. influenzae</i>	ATCC 25922 ATCC 49766	22-28 26-32
Neomycin	N	10	Not available			Not available			Not available			<i>E. coli</i> <i>S. aureus</i>	ATCC 25922 ATCC 29213	14-20 16-22	
Netilmicin	NET	10	Not available			Not available			Enterobacterales <i>Pseudomonas</i> spp. <i>Acinetobacter</i> spp. <i>S. aureus</i> Coagulase-negative Staphylococci	15 12 16 18 22	12 12 16 18 22	<i>E. coli</i> <i>P. aeruginosa</i> <i>S. aureus</i>	ATCC 25922 ATCC 27853 ATCC 29213	18-24 15-21 20-26	
Netilmicin	NET	30	Enterobacterales <i>P. aeruginosa</i>	15 15	13-14 13-14	12 12	<i>E. coli</i> <i>S. aureus</i> <i>P. aeruginosa</i>	ATCC 25922 ATCC 25923 ATCC 27853	22-30 22-31 17-23	Not available		Not available			
Nitrofurantoin	F	100	Not available			Not available			<i>E. coli</i> <i>Staphylococcus</i> spp. <i>Enterococcus</i> spp. Streptococcus groups A,B,C and G <i>A. sanguinicola</i> and <i>urinae</i>	11 13 15 15 16	11 13 15 15 16	<i>E. coli</i> <i>S. aureus</i> <i>E. faecalis</i> <i>S. pneumoniae</i>	ATCC 25922 ATCC 29213 ATCC 29212 ATCC 49619	17-23 17-23 18-24 25-31	
Nitrofurantoin	F	300	Enterobacterales All staphylococci <i>Enterococcus</i> spp.	17 17 17	15-16 15-16 15-16	14 14 14	<i>E. coli</i> <i>S. aureus</i> <i>S. pneumoniae</i>	ATCC 25922 ATCC 25923 ATCC 49619	20-25 18-22 23-29	Not available		Not available			
Nitroxoline	NI	30	Not available			Not available			<i>E. coli</i>	15	15	<i>E. coli</i>	ATCC 25922	18-24	
Norfloxacin	NOR	10	Enterobacterales <i>P. aeruginosa</i> <i>Staphylococcus</i> spp. <i>Enterococcus</i> spp.	17 17 17 17	13-16 13-16 13-16 13-16	12 12 12 12	<i>E. coli</i> <i>S. aureus</i> <i>P. aeruginosa</i> <i>S. pneumoniae</i>	ATCC 25922 ATCC 25923 ATCC 27853 ATCC 49619	28-35 17-28 22-29 15-21	Enterobacterales (uncomplicated UTI only) <i>Staphylococcus</i> spp. <i>Enterococcus</i> spp. Streptococcus groups A,B,C and G <i>S. pneumoniae</i> <i>A. sanguinicola</i> and <i>urinae</i> <i>Bacillus</i> spp.	24 17 12 11 10 17 21	24 17 12 12 10 17 21	<i>E. coli</i> <i>S. aureus</i> <i>E. faecalis</i> <i>S. pneumoniae</i>	ATCC 25922 ATCC 29213 ATCC 29212 ATCC 49619	28-35 18-24 16-22 18-24
Ofloxacin	OFX	5	Enterobacterales <i>P. aeruginosa</i> All staphylococci <i>Haemophilus</i> spp. <i>S. pneumoniae</i> Streptococcus spp. β-Hemolytic group Streptococcus spp. Viridans group	16 16 18 16 16 16 16	13-15 13-15 15-17 - 13-15 13-15 13-15	12 12 14 - 12 12 12	<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	29-33 24-28 17-21 31-40 43-51 16-21	Enterobacterales <i>S. aureus</i> Coagulase-negative staphylococci <i>S. pneumoniae</i> <i>H. influenzae</i> <i>M. catarrhalis</i>	24 50 50 50 30 28	22 20 24 13 30 28	<i>E. coli</i> <i>S. aureus</i> <i>S. pneumoniae</i> <i>H. influenzae</i>	ATCC 25922 ATCC 29213 ATCC 49619 ATCC 49766	29-33 21-27 18-24 31-37
Omadacycline	OMC	30	Not available			<i>E. coli</i> <i>H. influenzae</i>	ATCC 25922 ATCC 49247	22-28 21-29	Not available			Not available			

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 ≤	Zone diameter (mm)		S ≥	R <	diameter (mm)	S ≥	R <					
Oxacillin	OX	1	<i>S. epidermidis</i>	18	-	17	<i>S. aureus</i> ATCC 25923	18-24	<i>S. pseudintermedius</i> and <i>S. schleiferi</i>	20	20	<i>S. pneumoniae</i> ATCC 49619	8-14					
			<i>S. pseudintermedius</i> and <i>S. schleiferi</i>	18	-	17								≤12	<i>S. pneumoniae</i>	20	*	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.	24	24	<i>E. coli</i> ATCC 25922	26-32					
									<i>Vibrio</i> spp.	22	22							
Penicillin G	P	1 unit	Not available			Not available					<i>S. aureus</i>	26	26	<i>S. aureus</i> ATCC 29213	12-18			
											<i>S. lugdunensis</i>	26	26	<i>S. pneumoniae</i> ATCC 49619	16-22			
											Streptococcus groups A,B,C and G (other than meningitis)	18	18	<i>H. influenzae</i> ATCC 49766	15-21			
											Streptococcus groups A,B,C and G (meningitis)	19	19	<i>H. influenzae</i> ATCC 49247	6-9			
											Viridans group streptococci	21	12	<i>C. perfringens</i> ATCC 13124	23-29			
											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>	29	29					
											<i>C. diphtheriae</i> and <i>C. ulcerans</i>	50	12					
			Penicillin G	P	10 units	All staphylococci	29	-	28	<i>S. aureus</i> ATCC 25923	26-37	Not available			Not available			
						<i>Enterococcus</i> spp.	15	-	14			<i>N. gonorrhoeae</i> ATCC 49226	26-34					
<i>N. gonorrhoeae</i>	47	27-46				26	<i>S. pneumoniae</i> ATCC 49619	24-30										
<i>Streptococcus</i> spp. β-Hemolytic group	24	-				-												
Piperacillin	PRL	30	Not available			Not available		Enterobacteriales			20			20	<i>E. coli</i> ATCC 25922	21-27		
								<i>Pseudomonas</i> spp.			50	18	<i>E. coli</i> ATCC 35218	9-15				
Piperacillin	PRL	100	<i>P. aeruginosa</i>	22	18-21	17	<i>E. coli</i> ATCC 25922	24-30	Not available			Not available						
			<i>Acinetobacter</i> spp.	21	18-20	17			<i>P. aeruginosa</i> ATCC 27853	25-33								
						<i>E. coli</i> ATCC 35218					12-18							
Piperacillin-tazobactam	TZP	36 (30/6)	Not available			Not available		Enterobacteriales			20	20	<i>E. coli</i> ATCC 25922	21-27				
								<i>Pseudomonas</i> spp.			50	18			<i>P. aeruginosa</i> ATCC 27853	23-29		
								<i>H. influenzae</i>			27	27			<i>E. coli</i> ATCC 35218	21-27		
								<i>Bacteroides</i> spp.			24	24			<i>K. pneumoniae</i> ATCC 700603	14-20		
								<i>Prevotella</i> spp.			26	26			<i>H. influenzae</i> ATCC 49766	32-40		
								<i>F. necrophorum</i>			32	32			<i>B. fragilis</i> ATCC 25285	29-35		
								<i>C. perfringens</i>			24	24			<i>C. perfringens</i> ATCC 13124	30-36		
								<i>C. acnes</i>			27	27						
								<i>Vibrio</i> spp.			26	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)	diameter (mm)									
Piperacillin-tazobactam	TZP	110 (100/10)	<i>Enterobacteriales</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					
								<i>H. influenzae</i>	ATCC 49247							33-38					
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. <i>E. faecium</i>	21 22	21 22	<i>S. aureus</i> <i>E. faecalis</i>	ATCC 29213 ATCC 29212	21-27 11-17						
			<i>Enterococcus</i> spp.	19	16-18	15	<i>H. influenzae</i>	ATCC 49247	15-21												
			<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> Coagulase-negative staphylococci Streptococcus groups A,B,C and G <i>S. pneumoniae</i> <i>H. influenzae</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>A. sanguinicola</i> and <i>urinae</i> <i>K. kingae</i>	26 30 21 22 18 30 24 25 20	26 30 21 22 18 30 24 25 20	<i>S. aureus</i> <i>S. pneumoniae</i> <i>H. influenzae</i>	ATCC 29213 ATCC 49619 ATCC 49766	30-36 26-32 21-27						
			<i>Enterococcus</i> spp.	20	17-19	16	<i>S. aureus</i>	ATCC 25923	26-34												
			<i>Haemophilus</i> spp.	20	17-19	16	<i>H. influenzae</i>	ATCC 49247	22-30												
			<i>S. pneumoniae</i>	19	17-18	16	<i>S. pneumoniae</i>	ATCC 49619	25-30												
			<i>N. meningitidis</i>	25	20-24	19															
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	Enterobacteriales	15	12-14	11	<i>E. coli</i> <i>S. aureus</i>	ATCC 25922 ATCC 25923	12-20 14-22	Not available			Not available								
Streptomycin	S	300	<i>Enterococcus</i> spp. (Screening Test for HLAR)	10		6	<i>E. faecalis</i> <i>E. faecalis</i>	ATCC 29212 ATCC 51299	14-20 6	<i>Enterococcus</i> spp. (Test for HLAR)	19	19	<i>E. faecalis</i> <i>E. faecalis</i>	ATCC 29212 ATCC 51299	14-20 6						
Sulfonamide	S3	300	Enterobacteriales All staphylococci	17 17	13-16 13-16	12 12	<i>E. coli</i> <i>S. aureus</i>	ATCC 25922 ATCC 25923	15-23 24-34	Not available			Not available								
Tedizolid	TZD	2	Not available				<i>S. aureus</i>	ATCC 25923	18-24	<i>Staphylococcus</i> spp. Streptococcus groups A, B, C and G <i>S. anginosus</i> group	20 18 18	20 18 18	<i>S. aureus</i> <i>S. pneumoniae</i>	ATCC 29213 ATCC 49619	19-25 19-25						
			<i>E. faecalis</i>				ATCC 29212	14-21													
			<i>S. pneumoniae</i>				ATCC 49619	18-25													
Teicoplanin	TEC	30	<i>Enterococcus</i> spp.	14	11-13	10	<i>S. aureus</i>	ATCC 25923	15-21	<i>Enterococcus</i> spp. Streptococcus groups A,B,C and G <i>S. pneumoniae</i> Viridans group streptococci	16 15 17 16	16 15 17 16	<i>E. faecalis</i> <i>S. pneumoniae</i> <i>E. faecalis</i>	ATCC 29212 ATCC 49619 ATCC 51299	15-21 18-24 16-20						
Telithromycin	TEL	15	<i>Haemophilus</i> spp.	15	12-14	11	<i>S. aureus</i>	ATCC 25923	24-30	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> <i>H. influenzae</i>	ATCC 49619 ATCC 49766	27-33 14-20						
							<i>H. influenzae</i>	ATCC 49247	17-23												
							<i>S. pneumoniae</i>	ATCC 49619	27-33												

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	R ≤	diameter (mm)	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)	diameter (mm)				
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	15	12-14	11	<i>E. coli</i>	ATCC 25922	18-25	<i>Staphylococcus</i> spp.	22	22	<i>S. aureus</i>	ATCC 29213	23-31	
			<i>Acinetobacter</i> spp.	15	12-14	11	<i>S. aureus</i>	ATCC 25923	24-30	<i>Streptococcus</i> groups	23	23	<i>S. pneumoniae</i>	ATCC 49619	28-34	
			All staphylococci	19	15-18	14	<i>H. influenzae</i>	ATCC 49247	14-22	A,B,C and G			<i>H. influenzae</i>	ATCC 49766	28-34	
			<i>Enterococcus</i> spp.	19	15-18	14	<i>N. gonorrhoeae</i>	ATCC 49226	30-42	<i>S. pneumoniae</i>	25	25	<i>C. jejuni</i>	ATCC 33560	30-38	
			<i>Haemophilus</i> spp.	29	26-28	25	<i>S. pneumoniae</i>	ATCC 49619	27-31	<i>H. influenzae</i>	25	25				
			<i>N. gonorrhoeae</i>	38	31-37	30				<i>M. catarrhalis</i>	26	26				
			<i>S. pneumoniae</i>	28	25-27	24				<i>P. multocida</i>	24	24				
			<i>Streptococcus</i> spp. β-	23	19-22	18				<i>C. jejuni</i>	30	30				
			Hemolytic group							<i>C. coli</i>	30	30				
			<i>Streptococcus</i> spp.	23	19-22	18				<i>Corynebacterium</i> spp. other than <i>C. diphtheriae</i> and <i>C. ulcerans</i>	24	24				
			Viridans group							<i>C. diphtheriae</i> and <i>C. ulcerans</i>	24	24				
										<i>ulcerans</i>						
										<i>K. kingae</i>	28	28				
										<i>Vibrio</i> spp.	20	20				
										<i>B. pseudomallei</i>	23	23				
Ticarcillin	TC	75	Not available			<i>E. coli</i>			ATCC 25922	24-30	Not available			<i>E. coli</i>	ATCC 25922	24-30
						<i>P. aeruginosa</i>			ATCC 27853	21-27						
						<i>E. coli</i>			ATCC 35218	6						
Ticarcillin-clavulanic acid	TTC	85 (75/10)	Enterobacterales	20	15-19	14	<i>E. coli</i>	ATCC 25922	24-30	Enterobacterales	23	20	<i>E. coli</i>	ATCC 25922	24-30	
			<i>P. aeruginosa</i>	24	16-23	15	<i>S. aureus</i>	ATCC 25923	29-37	<i>Pseudomonas</i> spp.	50	18	<i>P. aeruginosa</i>	ATCC 27853	20-28	
			<i>Acinetobacter</i> spp.	20	15-19	14	<i>P. aeruginosa</i>	ATCC 27853	20-28				<i>E. coli</i>	ATCC 35218	21-25	
							<i>E. coli</i>	ATCC 35218	21-25							
Tigecycline	TGC	15	Not available			<i>E. coli</i>			ATCC 25922	20-27	<i>E. coli</i> and <i>C. koseri</i>	18	18	<i>E. coli</i>	ATCC 25922	20-27
						<i>S. aureus</i>			ATCC 25923	20-25	<i>Staphylococcus</i> spp.	19	19	<i>S. aureus</i>	ATCC 29213	19-25
						<i>P. aeruginosa</i>			ATCC 27853	9-13	<i>E. faecalis</i>	20	20	<i>E. faecalis</i>	ATCC 29212	20-26
						<i>H. influenzae</i>			ATCC 49247	23-31	<i>E. faecium</i>	22	22	<i>S. pneumoniae</i>	ATCC 49619	24-30
						<i>N. gonorrhoeae</i>			ATCC 49226	30-40	<i>Streptococcus</i> groups	19	19			
						<i>S. pneumoniae</i>			ATCC 49619	23-29	A,B,C and G					
Tobramycin	TOB	10	Enterobacterales	17	13-16	12	<i>E. coli</i>	ATCC 25922	18-26	Enterobacterales	16	16	<i>E. coli</i>	ATCC 25922	18-26	
			<i>P. aeruginosa</i>	19	13-18	12	<i>S. aureus</i>	ATCC 25923	19-29	<i>Pseudomonas</i> spp.	18	18	<i>P. aeruginosa</i>	ATCC 27853	20-26	
			<i>Acinetobacter</i> spp.	15	13-14	12	<i>P. aeruginosa</i>	ATCC 27853	20-26	<i>Acinetobacter</i> spp.	17	17	<i>S. aureus</i>	ATCC 29213	20-26	
										<i>S. aureus</i>	(18)	(18)				
										Coagulase-negative staphylococci	(20)	(20)				
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	
													<i>E. faecalis</i>	ATCC 29212	24-32	

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)	S ≥	R <	diameter (mm)			
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>B. cepacia</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
			<i>S. maltophilia</i>	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
			All staphylococci	16	11-15	10				Streptococcus groups	18	15	<i>H. influenzae</i>	ATCC 49766	27-35
			<i>Haemophilus</i> spp.	16	11-15	10				A,B,C and G					
			<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>Vibrio</i> spp.	21	21						
							<i>B. pseudomallei</i>	50	17						
Vancomycin	VA	5	Not available			Not available			<i>Enterococcus</i> spp.	12	12	<i>E. faecalis</i>	ATCC 29212	10-16	
									Streptococcus groups	13	13	<i>S. pneumoniae</i>	ATCC 49619	17-23	
									A,B,C and G			<i>E. faecalis</i>	ATCC 51299	6-12	
									<i>S. pneumoniae</i>	16	16	<i>C. perfringens</i>	ATCC 13124	14-20	
									Viridans group streptococci	15	15				
									<i>C. perfringens</i>	12	12				
									<i>C. acnes</i>	22	22				
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. Viridans Group	17	-	-									

\* 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; 33rd ed. CLSI Supplement M100S. Wayne, PA: Clinical and Laboratory Standards Institute; 2023.
2. The European Committee on Antimicrobial Susceptibility Testing. Breakpoint tables for interpretation of MICs and zone diameters. Version 13.2, 2023. <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 13.2, 2023. <http://www.eucast.org>



**LIOFILCHEM® s.r.l.**

Via Scozia, 64026 Roseto degli Abruzzi (TE) Italy  
Tel. +39 0858930745 Fax +39 0858930330 [www.liofilchem.com](http://www.liofilchem.com)





## Veterinary

Antibiotic	CODE	µg	INTERPRETATIVE CRITERIA †	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)																					
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	21	18-20	17																
			<i>Salmonella choleraesuis</i>																						
			<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>Staphylococcus</i> spp.															21	15-20	14					
			<i>Streptococcus</i> spp. β-Hemolytic Group																21	15-20	14				
Doxycycline	DXT	30	<i>S. pseudintermedius</i>														25	21-24	20						
Enrofloxacin	ENR	5	Enterobacteriaceae															23	17-22	16	23	17-22	16		
			<i>E. coli</i>																						
			<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																
			<i>A. pleuropneumoniae</i>	23	19-22	18																			
Gentamicin	CN	10	Enterobacteriaceae													16	13-15	12	16	13-15	12				
			<i>P. aeruginosa</i>														16	13-15	12	16	13-15	12			
			<i>A. pleuropneumoniae</i>														16	13-15	12						
Florfenicol	FFC	30	<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	
			<i>A. pleuropneumoniae</i>	22	19-21	18																			
			<i>H. somni</i>				19	15-18	14																

Antibiotic	CODE	µg	INTERPRETATIVE CRITERIA †	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)																				
Marbofloxacin	MAR	5	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	
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.



**LIOFILCHEM® s.r.l.**

Via Scozia, 64026 Roseto degli Abruzzi (TE) Italy  
Tel. +39 0858930745 Fax +39 0858930330 www.liofilchem.com