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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>Pasteurella</i> spp.	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				
									<i>K. kingae</i>	22	22				
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)	(50)	(19)				
									<i>B. pseudomallei</i>	50	22				

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)			
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	10	<i>E. faecalis</i>	ATCC 29212	15-21	
									<i>S. pneumoniae</i> (other than endocarditis and meningitis)	22	19	<i>S. pneumoniae</i>	ATCC 49619	25-31	
									<i>H. influenzae</i>			<i>H. influenzae</i>	ATCC 49766	19-25	
									<i>H. influenzae</i>			<i>H. influenzae</i>	ATCC 49247	6-12	
									Viridans group streptococci (other than endocarditis)	21	15				
									Viridans group streptococci (endocarditis)	21	21				
									<i>H. influenzae</i>	18	18				
									<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.	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.	22	17-21	16	<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						

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			S ≥	SDD	I	R ≤	Zone diameter (mm)			diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)				
Aztreonam-avibactam	AZA	50 (30/20)	Not available				<i>E. coli</i>	ATCC 25922	32-38	Enterobacterales	25	25	<i>E. coli</i>	ATCC 25922	32-38	<i>K. pneumoniae</i>	ATCC 700603	26-32
Carbenicillin	CAR	100	Not available				<i>E. coli</i>	ATCC 25922	23-29	Not available			Not available					
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 (uncomplicated UTI only)	12	12	<i>E. coli</i>	ATCC 25922	14-20			
Cefamandole	MA	30	Enterobacterales	18	15-17	14	<i>E. coli</i>	ATCC 25922	26-32	Not available			Not available					
							<i>S. aureus</i>	ATCC 25923	26-34									
Cefazolin	KZ	30	Enterobacterales	23	20-22	19	<i>E. coli</i>	ATCC 25922	21-27	<i>E. coli</i> and <i>Klebsiella</i> spp (except <i>K. aerogenes</i> )			50	20	<i>E. coli</i>	ATCC 25922	21-27	
			Enterobacterales (test for uncomplicated UTI)	15	-	14	<i>S. aureus</i>	ATCC 25923	29-35									
Cefepime	FEP	30	Enterobacterales	25	19-24	-	<i>E. coli</i>	ATCC 25922	31-37	Enterobacterales	27	24	<i>E. coli</i>	ATCC 25922	31-37	<i>P. aeruginosa</i>	ATCC 27853	25-31
			<i>P. aeruginosa</i>	18	15-17	14	<i>S. aureus</i>	ATCC 25923	23-29	<i>Pseudomonas</i> spp.	50	21	<i>P. aeruginosa</i>	ATCC 27853	25-31	<i>S. pneumoniae</i>	ATCC 49619	31-37
			<i>Acinetobacter</i> spp.	18	15-17	14	<i>P. aeruginosa</i>	ATCC 27853	25-31	Viridans group streptococci	25	25	<i>S. pneumoniae</i>	ATCC 49619	31-37	<i>H. influenzae</i>	ATCC 49766	30-36
			<i>Haemophilus</i> spp.	26	-	-	<i>E. coli</i>	ATCC 35218	31-37	<i>H. influenzae</i>	28	28	<i>H. influenzae</i>	ATCC 49766	30-36			
			<i>N. gonorrhoeae</i>	31	-	-	<i>K. pneumoniae</i>	ATCC 700603	23-29	<i>M. catarrhalis</i>	20	20						
			<i>Streptococcus</i> spp.	24	-	-	<i>E. coli</i>	NCTC 13353	6-15	<i>Aeromonas</i> spp.	27	24						
			β-Hemolytic group				<i>A. baumannii</i>	NCTC 13304	6-16									
			<i>Streptococcus</i> spp.	24	22-23	21	<i>H. influenzae</i>	ATCC 49247	25-31									
			Viridans group				<i>N. gonorrhoeae</i>	ATCC 49226	37-46									
							<i>S. pneumoniae</i>	ATCC 49619	28-35									
Cefepime-enmetazobactam	FPE	50 (30/20)	Not available				<i>E. coli</i>	ATCC 25922	32-38	Enterobacterales	22	22	<i>E. coli</i>	ATCC 25922	32-38	<i>E. coli</i>	NCTC 13353	27-33
							<i>P. aeruginosa</i>	ATCC 27853	26-32									
							<i>E. coli</i>	ATCC 35218	32-38									
							<i>K. pneumoniae</i>	ATCC 700603	26-32									
							<i>E. coli</i>	NCTC 13353	27-33									
Cefiderocol	FDC	30	Enterobacterales	16	9-15	8	<i>E. coli</i>	ATCC 25922	25-31	Enterobacterales	23	23	<i>E. coli</i>	ATCC 25922	24-30	<i>P. aeruginosa</i>	ATCC 27853	23-29
			<i>P. aeruginosa</i>	18	13-17	12	<i>P. aeruginosa</i>	ATCC 27853	22-31	<i>P. aeruginosa</i>	22	22	<i>P. aeruginosa</i>	ATCC 27853	23-29			
			<i>Acinetobacter</i> spp.	15	-	-												
			<i>S. maltophilia</i>	15	-	-												
Cefixime	CFM	5	Enterobacterales	19	16-18	15	<i>E. coli</i>	ATCC 25922	20-26	Enterobacterales (uncomplicated UTI only)	17	17	<i>E. coli</i>	ATCC 25922	20-26	<i>H. influenzae</i>	ATCC 49766	29-35
			<i>Haemophilus</i> spp.	21	-	-	<i>H. influenzae</i>	ATCC 49247	25-33	<i>H. influenzae</i>	26	26	<i>H. influenzae</i>	ATCC 49766	29-35			
			<i>N. gonorrhoeae</i>	31	-	-	<i>N. gonorrhoeae</i>	ATCC 49226	37-45	<i>M. catarrhalis</i>	21	21						
							<i>S. pneumoniae</i>	ATCC 49619	16-23									
Cefoperazone	CFP	75	Enterobacterales				21	16-20	15	<i>E. coli</i>	ATCC 25922	28-34	Not available			Not available		
										<i>S. aureus</i>	ATCC 25923	24-33						
										<i>P. aeruginosa</i>	ATCC 27853	23-29						



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			S ≥	SDD	I	R ≤	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)	diameter (mm)			
			Zone diameter (mm)												
Ceftaroline	CPT	5	Not available				Not available			Enterobacterales	23	23	<i>E. coli</i>	ATCC 25922	24-30
									<i>S. aureus</i> (other than pneumonia)	20	17	<i>S. aureus</i>	ATCC 29213	24-30	
									<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> (nonmeningitis)	26	-	-	<i>S. pneumoniae</i>	ATCC 49619	31-41						
			<i>Streptococcus</i> spp. β-Hemolytic group	26	-	-									
Ceftazidime	CAZ	10	Not available				Not available			Enterobacterales	22	19	<i>E. coli</i>	ATCC 25922	23-29
									<i>Pseudomonas</i> spp.	50	17	<i>P. aeruginosa</i>	ATCC 27853	21-27	
									<i>Aeromonas</i> spp.	24	21	<i>K. pneumoniae</i>	ATCC 700603	6-12	
									<i>Vibrio</i> spp.	22	22				
									<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						
Ceftazidime-avibactam	CZA	14 (10/4)	Not available				Not available			Enterobacterales	13	13	<i>E. coli</i>	ATCC 25922	24-30
									<i>P. aeruginosa</i>	17	17	<i>P. aeruginosa</i>	ATCC 27853	21-27	
												<i>K. pneumoniae</i>	ATCC 700603	18-24	
Ceftazidime-avibactam	CZA	50 (30/20)	Enterobacterales	21		20	<i>E. coli</i>	ATCC 25922	27-35	Not available			Not available		
			<i>P. aeruginosa</i>	21		20	<i>S. aureus</i>	ATCC 25923	16-22						
							<i>P. aeruginosa</i>	ATCC 27853	25-31						
							<i>E. coli</i>	ATCC 35218	28-35						
							<i>K. pneumoniae</i>	ATCC 700603	21-27						
							<i>H. influenzae</i>	ATCC 49247	28-34						
							<i>S. pneumoniae</i>	ATCC 49619	23-31						
Ceftibuten	CTB	30	Enterobacterales	21	18-20	17	<i>E. coli</i>	ATCC 25922	27-35	Enterobacterales	23	23	<i>E. coli</i>	ATCC 25922	27-35
			<i>Haemophilus</i> spp.	28	-	-	<i>E. coli</i>	NCTC 13353	15-23	(infections originating from the urinary tract)			<i>H. influenzae</i>	ATCC 49766	31-37
							<i>H. influenzae</i>	ATCC 49247	29-36	<i>H. influenzae</i>	25	25			
Ceftizoxime	CZX	30	Enterobacterales	25	22-24	21	<i>E. coli</i>	ATCC 25922	30-36	Not available			Not available		
			<i>Haemophilus</i> spp.	26	-	-	<i>S. aureus</i>	ATCC 25923	27-35						
			<i>N. gonorrhoeae</i>	38	-	-	<i>P. aeruginosa</i>	ATCC 27853	12-17						
							<i>H. influenzae</i>	ATCC 49247	29-39						
							<i>N. gonorrhoeae</i>	ATCC 49226	42-51						
							<i>S. pneumoniae</i>	ATCC 49619	28-34						
Ceftobiprole	BPR	5	Not available				Not available			Enterobacterales	23	23	<i>E. coli</i>	ATCC 25922	25-31
							<i>S. aureus</i>	ATCC 25923	20-27	<i>S. aureus</i>	17	17	<i>S. aureus</i>	ATCC 29213	22-28
Ceftolozane-tazobactam	C/T	40 (30/10)	Enterobacterales	22	19-21	18	<i>E. coli</i>	ATCC 25922	24-32	Enterobacterales	22	22	<i>E. coli</i>	ATCC 25922	24-32
			<i>P. aeruginosa</i>	21	17-20	16	<i>S. aureus</i>	ATCC 25923	10-18	<i>P. aeruginosa</i>	23	23	<i>P. aeruginosa</i>	ATCC 27853	25-31
							<i>P. aeruginosa</i>	ATCC 27853	25-31	<i>H. influenzae</i>	23	23	<i>E. coli</i>	ATCC 35218	25-31
							<i>E. coli</i>	ATCC 35218	25-31	(pneumonia)			<i>K. pneumoniae</i>	ATCC 700603	17-25
							<i>K. pneumoniae</i>	ATCC 700603	17-25				<i>H. influenzae</i>	ATCC 49766	24-30
							<i>H. influenzae</i>	ATCC 49247	23-29						
							<i>S. pneumoniae</i>	ATCC 49619	21-29						

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			S ≥	SDD	I	R ≤	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)	S ≥	R <	diameter (mm)		
Ceftriaxone	CRO	30	Enterobacterales	23	20-22	19	<i>E. coli</i>	ATCC 25922	29-35	Enterobacterales (other than meningitis)	27	24	<i>E. coli</i>	ATCC 25922	29-35	
			<i>Acinetobacter</i> spp.	21	14-20	13	<i>S. aureus</i>	ATCC 25923	22-28	Enterobacterales (meningitis)	27	27	<i>S. pneumoniae</i>	ATCC 49619	32-38	
			<i>Haemophilus</i> spp.	26	-	-	<i>P. aeruginosa</i>	ATCC 27853	17-23	Viridans group streptococci	27	27	<i>H. influenzae</i>	ATCC 49766	34-42	
			<i>N. gonorrhoeae</i>	35	-	-	<i>K. pneumoniae</i>	ATCC 700603	16-24	<i>H. influenzae</i>	32	32	<i>K. pneumoniae</i>	ATCC 700603	16-22	
			<i>Streptococcus</i> spp.	24	-	-	<i>H. influenzae</i>	ATCC 49247	31-39	<i>M. catarrhalis</i>	24	21				
			β-Hemolytic group				<i>N. gonorrhoeae</i>	ATCC 49226	39-51	<i>C. acnes</i>	33	33				
			<i>Streptococcus</i> spp.	27	25-26	24	<i>S. pneumoniae</i>	ATCC 49619	30-35	<i>K. kingae</i>	30	30				
			Viridans group							<i>B. melitensis</i> (meningitis)	(30)	(30)				
			<i>N. meningitidis</i>	34	-	-										
Cefuroxime	CXM	30	Enterobacterales (Parenteral)	18	15-17	14	<i>E. coli</i>	ATCC 25922	20-26	<i>E. coli, 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	<i>E. coli</i>	ATCC 25922	20-26	
			Enterobacterales (Oral)	23	15-22	14	<i>S. aureus</i>	ATCC 25923	27-35		19	19		<i>S. pneumoniae</i>	ATCC 49619	28-34
			<i>Haemophilus</i> spp.	20	17-19	16	<i>H. influenzae</i>	ATCC 49766	28-36		26	26		<i>H. influenzae</i>	ATCC 49766	26-34
							<i>N. gonorrhoeae</i>	ATCC 49226	33-41		27	25				
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	Not available			Not available				
						<i>S. aureus</i>	ATCC 25923	29-37								
						<i>S. pneumoniae</i>	ATCC 49619	26-32								
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 A,B,C and G	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	<i>S. pneumoniae</i>	21	21	<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>H. influenzae</i>	28	28	<i>H. influenzae</i>	ATCC 49766	31-37	
			<i>S. pneumoniae</i>	21	-	20				<i>M. catarrhalis</i>	30	30				
			<i>Streptococcus</i> spp.	21	18-20	17				<i>B. pseudomallei</i>	50	22				
			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	19	15-18	14	<i>E. coli</i>	ATCC 25922	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)					
Ciprofloxacin	CIP	5	Zone diameter (mm)				29-38	25	22	29-37	25-33	21-27	19-25	22-28	32-40	34-42
			<i>Enterobacterales</i> except <i>Salmonella</i> spp.	26	22-25	21										
			<i>Salmonella</i> spp.	31	21-30	20	<i>S. aureus</i> ATCC 25923	22-30	<i>S. aureus</i> ATCC 29213	<i>E. faecalis</i> ATCC 29212	<i>S. pneumoniae</i> ATCC 49619	<i>H. influenzae</i> ATCC 49766				
			<i>P. aeruginosa</i>	25	19-24	18	<i>P. aeruginosa</i> ATCC 27853	25-33	<i>Pseudomonas</i> spp.	50	26	<i>C. jejuni</i> ATCC 33560				
			<i>Acinetobacter</i> spp.	21	16-20	15	<i>H. influenzae</i> ATCC 49247	34-42	<i>Acinetobacter</i> spp.	50	21					
			All staphylococci	21	16-20	15	<i>N. gonorrhoeae</i> ATCC 49226	48-58	<i>S. aureus</i> (50)	(17)						
			<i>Enterococcus</i> spp.	21	16-20	15			Coagulase-negative staphylococci	(50)	(22)					
			<i>Haemophilus</i> spp.	21	-	-			<i>Enterococcus</i> spp. (uncomplicated UTI only)	15	15					
			<i>N. gonorrhoeae</i>	41	28-40	27			<i>H. influenzae</i>	32	32					
			<i>N. meningitidis</i>	35	33-34	32			<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					
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										
			Streptococcus 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.	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			
			Streptococcus spp. β-Hemolytic Group	19	16-18	15			<i>S. pneumoniae</i>	19	19	<i>B. fragilis</i> ATCC 25285	22-28			
			Streptococcus 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)					
									<i>Prevotella</i> spp.	31	31					
									<i>F. necrophorum</i>	30	30					
									<i>C. perfringens</i>	19	19					
									<i>C. acnes</i>	26	26					
									<i>Corynebacterium</i> spp. other than <i>C. diphtheriae</i> and <i>C. ulcerans</i>	20	20					
									<i>C. diphtheriae</i>	15	15					
									<i>Bacillus</i> spp (except <i>B. anthracis</i> )	17	17					
									<i>B. anthracis</i>	17	17					



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 ≤	Zone diameter (mm)			diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)		
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>Acinetobacter</i> spp.	15	13-14				12	<i>S. aureus</i>	ATCC 25923	19-27							
All staphylococci	15	13-14				12	<i>P. aeruginosa</i>	ATCC 27853	17-23							
							<i>N. gonorrhoeae</i>	ATCC 49226	15-20							
Gentamicin	CN	30	Not available			Not available			<i>Enterococcus</i> spp. (Test for HLAR)	8	8	<i>E. faecalis</i>	ATCC 29212	12-18		
Gentamicin	CN	120	<i>Enterococcus</i> spp. (Screening Test for HLAR)	10		6	<i>E. faecalis</i>	ATCC 29212	16-23	Not available			Not available			
							<i>E. faecalis</i>	ATCC 51299	6							
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>Acinetobacter</i> spp.	22	19-21	18	<i>K. pneumoniae</i>	ATCC 700603	25-33							
			<i>Haemophilus</i> spp.	16	-	-	<i>K. pneumoniae</i>	ATCC BAA-1705	11-22							
							<i>K. pneumoniae</i>	ATCC BAA-2814	6-14							
							<i>H. influenzae</i>	ATCC 49247	21-29							



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-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>	22	22	<i>P. aeruginosa</i>	ATCC 27853
							<i>K. pneumoniae</i>	ATCC 700603	26-32				<i>K. pneumoniae</i>	ATCC BAA-2814	22-28
							<i>K. pneumoniae</i>	ATCC BAA-1705	23-29						
							<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 MRSA	23	-	-	<i>S. aureus</i>	ATCC 25923	26-32	Not available			Not available		
			<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	Enterobacterales	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 spp. (A,B,C and G)	50	17			
			<i>S. pneumoniae</i>	17	14-16	13				<i>S. pneumoniae</i>	50	16			
			<i>Streptococcus</i> spp.	17	14-16	13				<i>H. influenzae</i>	30	30			
			β-Hemolytic group							<i>M. catarrhalis</i>	29	29			
			<i>Streptococcus</i> spp.	17	14-16	13				<i>P. multocida</i>	27	27			
			Viridans group							<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			
Levonadifloxacin	LND	10	Not available			Not available			<i>E. coli</i>	ATCC 25922	27-33	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	21-27
										<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>Bacillus</i> spp. (except <i>B. anthracis</i> )	22	22			
										<i>B. anthracis</i>	20	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)	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)				
Linezolid	LNZ	30	All staphylococci	26	23-25	22	<i>S. aureus</i>	ATCC 25923	24-30	Not available	15	15	<i>E. coli</i>	ATCC 25922	24-30
			<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	15	15	<i>E. coli</i>	ATCC 25922	24-30
			<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> (oral, uncomplicated UTI only)	15	15	<i>E. coli</i>	ATCC 25922	24-30
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	<i>P. aeruginosa</i>	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	Enterobacterales (meningitis)	20	14	<i>S. pneumoniae</i>	ATCC 49619	30-38
			<i>Haemophilus</i> spp.	20	-	-	<i>K. pneumoniae</i>	ATCC BAA-1705	11-18	<i>P. aeruginosa</i> (other than meningitis)	24	18	<i>H. influenzae</i>	ATCC 49766	27-35
			<i>N. meningitidis</i>	30	-	-	<i>K. pneumoniae</i>	ATCC BAA-2814	6	<i>Pseudomonas</i> other than <i>P. aeruginosa</i> (other than meningitis)	20	20	<i>B. fragilis</i>	ATCC 25285	32-39
							<i>H. influenzae</i>	ATCC 49247	20-28	<i>P. aeruginosa</i> (meningitis)	21	15	<i>C. perfringens</i>	ATCC 13124	33-39
							<i>S. pneumoniae</i>	ATCC 49619	28-35	<i>Acinetobacter</i> spp. (other than meningitis)	21	21			
										<i>Acinetobacter</i> spp. (meningitis)	21	21			
										Viridans group streptococci	25	25			
										<i>H. influenzae</i> (other than meningitis)	20	20			
										<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						
							<i>A. sanguinicola</i> and <i>urinae</i>	31	31						
							<i>K. kingae</i>	30	30						
							<i>A. xylosoxidans</i>	26	20						
							<i>Vibrio</i> spp.	24	24						
							<i>Bacillus</i> spp. except <i>B. anthracis</i>	25	25						
							<i>B. pseudomallei</i>	24	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 ≤	Zone diameter (mm)			diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)		
Metronidazole	MTZ	5	Not available				Not available			<i>Bacteroides</i> spp.	25	25	<i>B. fragilis</i>	ATCC 25285	29-36	
									<i>Prevotella</i> spp.	22	22	<i>C. perfringens</i>	ATCC 13124	20-26		
									<i>F. necrophorum</i>	30	30					
									<i>C. perfringens</i>	16	16					
Minocycline	MN	30	Enterobacterales	16	13-15	12	<i>E. coli</i>	ATCC 25922	20-26	<i>Staphylococcus</i> spp.	23	23	<i>S. aureus</i>	ATCC 29213	23-29	
			<i>Acinetobacter</i> spp.	22	18-21	17	<i>S. aureus</i>	ATCC 25923	25-30	Streptococcus groups	23	23	<i>S. pneumoniae</i>	ATCC 49619	25-31	
			<i>S. maltophilia</i>	26	21-25	20			A,B,C and G			<i>H. influenzae</i>	ATCC 49766	26-32		
			All staphylococci	19	15-18	14			<i>S. pneumoniae</i>	24	24					
			<i>Enterococcus</i> spp.	19	15-18	14			<i>H. influenzae</i>	24	24					
			<i>N. meningitidis</i>	26	-	-			<i>M. catarrhalis</i>	25	25					
Moxifloxacin	MOX	5	All staphylococci	24	21-23	20	<i>E. coli</i>	ATCC 25922	28-35	Enterobacterales except	22	22	<i>E. coli</i>	ATCC 25922	28-35	
			<i>Haemophilus</i> spp.	18	-	-	<i>S. aureus</i>	ATCC 25923	28-35	<i>M. morgani</i> , <i>Proteus</i>			<i>S. aureus</i>	ATCC 29213	25-31	
			<i>S. pneumoniae</i>	18	15-17	14	<i>P. aeruginosa</i>	ATCC 27853	17-25	spp. and <i>Serratia</i> spp.			<i>S. pneumoniae</i>	ATCC 49619	24-30	
							<i>H. influenzae</i>	ATCC 49247	31-39	<i>S. aureus</i>	25	25	<i>H. influenzae</i>	ATCC 49766	30-36	
							<i>S. pneumoniae</i>	ATCC 49619	25-31	Coagulase-negative staphylococci	28	28				
										Streptococcus groups	19	19				
										A,B,C and G						
										<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				
Nalidixic acid	NA	30	Enterobacterales	19	14-18	13	<i>E. coli</i>	ATCC 25922	22-28	Screen only:			<i>E. coli</i>	ATCC 25922	22-28	
										<i>H. influenzae</i>	23	23	<i>H. influenzae</i>	ATCC 49766	26-32	
										<i>M. catarrhalis</i>	23	23				
										<i>P. multocida</i>	23	23				
Neomycin	N	10	Not available				Not available			Not available		<i>E. coli</i>				
													<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	17-23	
										<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	Enterobacterales	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							

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)			
Nitroxoline	NI	30	Not available			Not available			<i>E. coli</i> (uncomplicated UTI only)	15	15	<i>E. coli</i>	ATCC 25922	18-24	
Norfloxacin	NOR	10	Urinary tract isolates only:			<i>E. coli</i>	ATCC 25922	28-35	Enterobacterales (uncomplicated UTI only)	24	24	<i>E. coli</i>	ATCC 25922	28-35	
			Enterobacterales	17	13-16	12	<i>S. aureus</i>	ATCC 25923	17-28			<i>S. aureus</i>	ATCC 29213	18-24	
			<i>P. aeruginosa</i>	17	13-16	12	<i>P. aeruginosa</i>	ATCC 27853	22-29	Screen only:		<i>E. faecalis</i>	ATCC 29212	16-22	
			<i>Staphylococcus</i> spp.	17	13-16	12	<i>S. pneumoniae</i>	ATCC 49619	15-21	<i>Staphylococcus</i> spp.	17	<i>S. pneumoniae</i>	ATCC 49619	18-24	
			<i>Enterococcus</i> spp.	17	13-16	12				<i>Enterococcus</i> spp.	12				
										Streptococcus groups A,B,C and G	12				
										<i>S. pneumoniae</i>	10				
										<i>A. sanguinicola</i> and <i>urinae</i>	17				
										<i>Bacillus</i> spp.	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>H. influenzae</i>	ATCC 49766	31-37
			<i>S. pneumoniae</i>	16	13-15	12	<i>N. gonorrhoeae</i>	ATCC 49226	43-51	<i>S. pneumoniae</i>	50	13			
			Streptococcus spp. β-Hemolytic group	16	13-15	12	<i>S. pneumoniae</i>	ATCC 49619	16-21	<i>H. influenzae</i>	30	30			
			Streptococcus spp. Viridans group	16	13-15	12				<i>M. catarrhalis</i>	28	28			
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	Screen only:			<i>S. pneumoniae</i>	ATCC 49619	8-14
			<i>S. pseudintermedius</i> ,	18	-	17	<i>S. pneumoniae</i>	ATCC 49619	≤12	<i>S. pseudintermedius</i> , <i>S. intermedius</i> , <i>S. schleiferi</i> and <i>S. coagulans</i>	20	20	<i>S. aureus</i>	ATCC 29213	19-25
			<i>S. coagulans</i> and <i>S. schleiferi</i>							<i>S. pneumoniae</i>	20	20			
			<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. (screen only)	22	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)									
Penicillin G	P	1 unit	Not available			Not available		<i>S. aureus</i> 26 26 <i>S. lugdunensis</i> 26 26 Streptococcus groups A,C and G 23 23 <i>S. agalactiae</i> (group B streptococci) 18 18 Viridans group streptococci (screen only) 21 21 Viridans group streptococci (other than endocarditis) 21 12 Viridans group streptococci (endocarditis) 21 21 Viridans group streptococci (endocarditis, in combination with other antimicrobial therapy) (12) (12) <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> (other than meningitis) 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 22-28			
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		Enterobacteriales 20 20 <i>Pseudomonas</i> spp. 50 18 <i>E. faecalis</i> 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				

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)												
Piperacillin-tazobactam	TZP	36 (30/6)	Not available			Not available			Enterobacterales	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	29-35	
									<i>C. acnes</i>	27	27				
									<i>A. xylooxidans</i>	26	26				
									<i>Vibrio</i> spp.	26	26				
									<i>E. faecalis</i>	50	18				
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						
							<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.	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>	22	22	<i>E. faecalis</i>	ATCC 29212	11-17
			<i>S. pneumoniae</i>	19	16-18	15	<i>S. pneumoniae</i>	ATCC 49619	19-24						
			Streptococcus spp. β-Hemolytic group	19	16-18	15									
			Streptococcus 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	Streptococcus 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			
										<i>C. diphtheriae</i> and <i>C. ulcerans</i>	24	24			
										<i>A. sanguinicola</i> and <i>urinae</i>	25	25			
										<i>K. kingae</i>	20	20			
										<i>B. anthracis</i>	(12)	(12)			
										<i>B. melitensis</i>	(20)	(20)			
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	Enterobacterales	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	Enterobacterales	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						

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)			
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. Streptococcus groups A, B, C and G <i>S. anginosus</i> group	20	20	<i>S. aureus</i> ATCC 29213 <i>S. pneumoniae</i> ATCC 49619	19-25	
			<i>Streptococcus</i> spp. β-Hemolytic group	15	-	-	<i>E. faecalis</i> ATCC 29212	14-21		18	18		19-25	
			<i>Streptococcus</i> spp. Viridans group	18	-	-	<i>S. pneumoniae</i> ATCC 49619	18-25		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. Streptococcus groups A,B,C and G <i>S. pneumoniae</i> Viridans group streptococci	16	16	<i>E. faecalis</i> ATCC 29212 <i>S. pneumoniae</i> ATCC 49619 <i>E. faecalis</i> ATCC 51299	15-21	
								15		15	18-24			
								17		17	16-20			
								16		16				
Telithromycin	TEL	15	Not available				<i>S. aureus</i> ATCC 25923	24-30	Streptococcus groups A,B,C and G <i>S. pneumoniae</i> <i>M. catarrhalis</i>	20	20	<i>S. pneumoniae</i> ATCC 49619 <i>H. influenzae</i> ATCC 49766	27-33	
						<i>H. influenzae</i> ATCC 49247	17-23	23		23	14-20			
						<i>S. pneumoniae</i> ATCC 49619	27-33	23		23				
Temocillin	TMO	30	Not available			Not available		<i>E. coli</i> , <i>Klebsiella</i> spp. (except <i>K. aerogenes</i> ), and <i>P. mirabilis</i> (infections originating from the urinary tract)	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. Streptococcus 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	22	<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	
			<i>Acinetobacter</i> spp.	15	12-14	11	<i>S. aureus</i> ATCC 25923	24-30		23	23		28-34	
			All staphylococci	19	15-18	14	<i>H. influenzae</i> ATCC 49247	14-22		25	25		28-34	
			<i>Enterococcus</i> spp.	19	15-18	14	<i>N. gonorrhoeae</i> ATCC 49226	30-42		25	25		30-38	
			<i>Haemophilus</i> spp.	29	26-28	25	<i>S. pneumoniae</i> ATCC 49619	27-31		25	25			
			<i>N. gonorrhoeae</i>	38	31-37	30				26	26			
			<i>S. pneumoniae</i>	28	25-27	24				24	24			
			<i>Streptococcus</i> spp. β-Hemolytic group	23	19-22	18				30	30			
			<i>Streptococcus</i> spp. Viridans group	23	19-22	18				30	30			
										24	24			
										24	24			
										28	28			
										20	20			
										23	23			
						26	26							
						42	42							
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 <i>Pseudomonas</i> spp.	23	20	<i>E. coli</i> ATCC 25922 <i>P. aeruginosa</i> ATCC 27853 <i>E. coli</i> ATCC 35218	24-30	
			<i>P. aeruginosa</i>	24	16-23	15	<i>S. aureus</i> ATCC 25923	29-37		50	18		20-28	
			<i>Acinetobacter</i> spp.	20	15-19	14	<i>P. aeruginosa</i> ATCC 27853	20-28					21-25	
						<i>E. coli</i> ATCC 35218	21-25							

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	I	R ≤	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)	S ≥	R <	diameter (mm)		
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>Enterococcus</i> spp.	20	20	<i>E. faecalis</i>	ATCC 29212	20-26		
						<i>H. influenzae</i>	ATCC 49247	23-31	<i>Streptococcus</i> groups	19	19	<i>S. pneumoniae</i>	ATCC 49619	24-30		
						<i>N. gonorrhoeae</i>	ATCC 49226	30-40	A,B,C and G							
						<i>S. pneumoniae</i>	ATCC 49619	23-29								
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		
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			<i>Streptococcus</i> groups	18	15	<i>H. influenzae</i>	ATCC 49766	27-35		
			<i>S. pneumoniae</i>	19	16-18	15			A,B,C and G							
			<i>N. meningitidis</i>	30	26-29	25			<i>S. pneumoniae</i>	13	10					
									<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. xylosoxidans</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			<i>E. faecalis</i> and <i>E. faecium</i>	12	12	<i>E. faecalis</i>	ATCC 29212	10-16	
									Other enterococci	15	15	<i>S. pneumoniae</i>	ATCC 49619	17-23		
									<i>Streptococcus</i> groups	13	13	<i>E. faecalis</i>	ATCC 51299	6-12		
									A,B,C and G			<i>C. perfringens</i>	ATCC 13124	14-20		
									<i>S. pneumoniae</i>	16	16					
									Viridans group streptococci	15	15					
									<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)					

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 <		
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; 35th ed. CLSI Supplement M100S. Wayne, PA: Clinical and Laboratory Standards Institute; 2025.
2. The European Committee on Antimicrobial Susceptibility Testing. Breakpoint tables for interpretation of MICs and zone diameters. Version 15.0, 2025. <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 15.0, 2025. <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 ≤	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	16	13-15	12		
Florfenicol	FFC	30	<i>P. aeruginosa</i>														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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