

- The present **Antibiotic Disc Interpretative Criteria and Quality Control** table might be out of date. Check on-line for the latest update: [https://www.liofilchem.com/images/prodotti-evidenza/antibiotic-disc/disc\\_interpretative\\_table.pdf](https://www.liofilchem.com/images/prodotti-evidenza/antibiotic-disc/disc_interpretative_table.pdf)
- The present **Antibiotic Disc Interpretative Criteria and Quality Control** table does not replace the official documents by CLSI and EUCAST.
- The present **Antibiotic Disc Interpretative Criteria and Quality Control** table has been produced in part under ECDC service contracts and made available by EUCAST at no cost to the user and can be accessed on the EUCAST website [www.eucast.org](http://www.eucast.org). EUCAST recommendations are frequently updated and the latest versions are available at [www.eucast.org](http://www.eucast.org).

## 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)	diameter (mm)						
Amikacin	AK	30	Enterobacterales	17	15-16	14	<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>	18	18					
									Coagulase-negative staphylococci	22	22						
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>P. multocida</i>	15	15						
Amoxicillin-clavulanic acid	AUG	30 (20/10)	Enterobacterales	18	14-17	13	<i>E. coli</i>	ATCC 25922	18-24	Enterobacterales	19	19	<i>E. coli</i>	ATCC 29212	18-24		
			<i>Haemophilus</i> spp.	20	-	19	<i>S. aureus</i>	ATCC 25923	28-36	Enterobacterales	16	16	<i>E. coli</i>	ATCC 35218	17-22		
									<i>E. coli</i>	ATCC 35218	17-22						
									<i>H. influenzae</i>	ATCC 49247	15-23						
Ampicillin	AMP	2	Not available			Not available			Not available			<i>S. saprophyticus</i>	18	18	<i>S. aureus</i>	ATCC 29213	15-21
Ampicillin	AMP	10	Enterobacterales	17	14-16	13	<i>E. coli</i>	ATCC 25922	15-22	Enterobacterales	14	14	<i>E. coli</i>	ATCC 25922	15-22		
			<i>Enterococcus</i> spp.	17	-	16	<i>S. aureus</i>	ATCC 25923	27-35				<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	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				<i>E. coli</i>	ATCC 35218	13-19		
			<i>Haemophilus</i> spp.	20	-	19	<i>E. coli</i>	ATCC 35218	13-19								
									<i>H. influenzae</i>	ATCC 49247	14-22						

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)					
Azithromycin	AZM	15	<i>S. Typhi</i>	13	-	12	<i>S. aureus</i>	ATCC 25923	21-26	Not available		Not available						
			<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			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				
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	-	18	<i>E. coli</i>	ATCC 25922	31-37	Enterobacterales	27	24	<i>E. coli</i>	ATCC 25922	31-37		
			<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	24-30
			<i>Acinetobacter</i> spp.	18	15-17	14	<i>P. aeruginosa</i>	ATCC 27853	25-31	Viridans group				25	25	<i>S. pneumoniae</i>	ATCC 49619	31-37
			<i>Haemophilus</i> spp.	26	-	-	<i>E. coli</i>	ATCC 35218	31-37	streptococci						<i>H. influenzae</i>	ATCC 49766	30-36
			<i>N. gonorrhoeae</i>	31	-	-	<i>K. pneumoniae</i>	ATCC 700603	23-29	<i>H. influenzae</i>				28	28			
			<i>Streptococcus</i> spp. β-Hemolytic group	24	-	-	<i>E. coli</i>	NCTC 13353	6-15	<i>M. catarrhalis</i>				20	20			
			<i>Streptococcus</i> spp. Viridans group	24	22-23	21	<i>A. baumannii</i>	NCTC 13304	6-16	<i>Aeromonas</i> spp.				27	24			
						<i>H. influenzae</i>	ATCC 49247	25-31										
						<i>N. gonorrhoeae</i>	ATCC 49226	37-46										
						<i>S. pneumoniae</i>	ATCC 49619	28-35										
Cefiderocol	FDC	30	Enterobacterales	16	12-15	11	<i>E. coli</i>	ATCC 25922	25-31	Enterobacterales	22	22	<i>E. coli</i>	ATCC 25922	24-30			
			<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	11-14	10												
			<i>S. maltophilia</i>	17	13-16	12												
Cefixime	CFM	5	Enterobacterales	19	16-18	15	<i>E. coli</i>	ATCC 25922	20-26	Enterobacterales	17	17	<i>E. coli</i>	ATCC 25922	20-26			
			<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	18			
						<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										

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 <			
			Zone diameter (mm)						diameter (mm)						
Cefotaxime	CTX	5	Not available			Not available		Enterobacterales (other than meningitis)	20	17	<i>E. coli</i>	ATCC 25922	25-31		
								Enterobacterales (meningitis)	20	20	<i>S. pneumoniae</i>	ATCC 49619	28-34		
								Viridans group streptococci	23	23	<i>H. influenzae</i>	ATCC 49766	29-37		
								<i>H. influenzae</i>	27	27	<i>K. pneumoniae</i>	ATCC 700603	12-18		
								<i>M. catarrhalis</i>	20	17					
								<i>P. multocida</i>	26	26					
								<i>K. kingae</i>	27	27					
Cefotaxime	CTX	30	Enterobacterales	26	23-25	22	<i>E. coli</i>	ATCC 25922	29-35	Not available					
			<i>Acinetobacter</i> spp.	23	15-22	14	<i>S. aureus</i>	ATCC 25923	25-31						
			<i>Haemophilus</i> spp.	26	-	-	<i>P. aeruginosa</i>	ATCC 27853	18-22						
			<i>N. gonorrhoeae</i>	31	-	-	<i>K. pneumoniae</i>	ATCC 700603	17-25						
			Streptococcus spp. β-Hemolytic group	24	-	-	<i>H. influenzae</i>	ATCC 49247	31-39						
			Streptococcus spp. Viridans group	28	26-27	25	<i>N. gonorrhoeae</i>	ATCC 49226	38-48						
			<i>N. meningitidis</i>	34	-	-	<i>S. pneumoniae</i>	ATCC 49619	31-39						
Cefotetan	CTT	30	Enterobacterales	16	13-15	12	<i>E. coli</i>	ATCC 25922	28-34	Not available					
			<i>N. gonorrhoeae</i>	26	20-25	19	<i>S. aureus</i>	ATCC 25923	17-23						
							<i>N. gonorrhoeae</i>	ATCC 49226	30-36						
Cefoxitin	FOX	30	Enterobacterales	18	15-17	14	<i>E. coli</i>	ATCC 25922	23-29	Enterobacterales	19	19	<i>E. coli</i>	ATCC 25922	23-29
			<i>S. aureus</i> and	22	-	21	<i>S. aureus</i>	ATCC 25923	23-29	<i>S. aureus</i> and	22	22	<i>S. aureus</i>	ATCC 29213	24-30
			<i>S. lugdunensis</i>				<i>N. gonorrhoeae</i>	ATCC 49226	33-41	coagulase-negative staphylococci other than			<i>S. aureus</i>	NCTC 12493	14-20
			<i>S. epidermidis</i> (surrogate test for oxacillin)	25	-	24				<i>S. epidermidis</i>	25	25			
			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)	25	-	24									
			<i>N. gonorrhoeae</i>	28	24-27	23									
Cefpodoxime	PX	10	Enterobacterales	21	18-20	17	<i>E. coli</i>	ATCC 25922	23-28	Enterobacterales	21	21	<i>E. coli</i>	ATCC 25922	23-28
			<i>Haemophilus</i> spp.	21	-	-	<i>S. aureus</i>	ATCC 25923	19-25	<i>H. influenzae</i>	26	26	<i>S. pneumoniae</i>	ATCC 49619	29-35
			<i>N. gonorrhoeae</i>	29	-	-	<i>K. pneumoniae</i>	ATCC 700603	9-16				<i>H. influenzae</i>	ATCC 49766	30-36
							<i>H. influenzae</i>	ATCC 49247	25-31				<i>K. pneumoniae</i>	ATCC 700603	9-16
							<i>N. gonorrhoeae</i>	ATCC 49226	35-43						
							<i>S. pneumoniae</i>	ATCC 49619	28-34						
Cefprozil	CPR	30	Enterobacterales	18	15-17	14	<i>E. coli</i>	ATCC 25922	21-27	Not available			Not available		
			<i>Haemophilus</i> spp.	18	15-17	14	<i>S. aureus</i>	ATCC 25923	27-33						
							<i>H. influenzae</i>	ATCC 49766	20-27						
							<i>S. pneumoniae</i>	ATCC 49619	25-32						
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						

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)										
Ceftaroline	CPT	30	Enterobacterales	23	20-22	19	<i>E. coli</i>	ATCC 25922	26-34	Not available	Not available										
			<i>S. aureus</i> only including MRSA	25	20-24	19	<i>S. aureus</i>	ATCC 25923	26-35												
			<i>Haemophilus</i> spp.	30	-	-	<i>H. influenzae</i>	ATCC 49247	29-39												
			<i>S. pneumoniae</i>	26	-	-	<i>S. pneumoniae</i>	ATCC 49619	31-41												
			<i>Streptococcus</i> spp. β-Hemolytic group	26	-	-															
Ceftazidime	CAZ	10	Not available			Not available			Enterobacterales <i>Pseudomonas</i> spp. <i>Aeromonas</i> spp. <i>B. pseudomallei</i>	22 50 24 50	19 17 21 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							
			Enterobacterales	21	18-20	17	<i>E. coli</i>	ATCC 25922							25-32						
			<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						
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>B. cepacia</i>	21	18-20	17	<i>K. pneumoniae</i>	ATCC 700603	10-18												
			<i>Haemophilus</i> spp.	26	-	-	<i>H. influenzae</i>	ATCC 49247	27-35												
Ceftazidime-avibactam	CZA	14 (10/4)	Not available			Not available			Enterobacterales <i>P. aeruginosa</i>	13 17	13 17	<i>P. aeruginosa</i> <i>K. pneumoniae</i>	ATCC 27853 ATCC 700603	21-27 18-24							
			Enterobacterales	21		20	<i>E. coli</i>	ATCC 25922							27-35						
			<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						
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												
Ceftibuten	CTB	30	Enterobacterales	21	18-20	17	<i>E. coli</i>	ATCC 25922	27-35	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						
			<i>Haemophilus</i> spp.	28	-	-	<i>H. influenzae</i>	ATCC 49247	29-36												
			Enterobacterales	25	22-24	21	<i>E. coli</i>	ATCC 25922	30-36												
			<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												
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												
Ceftobiprole	BPR	5	Not available			Not available			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							
			Enterobacterales	21	18-20	17	<i>E. coli</i>	ATCC 25922							24-32						
Ceftolozane-tazobactam	C/T	40 (30/10)	Enterobacterales	21	18-20	17	<i>E. coli</i>	ATCC 25922	24-32	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						
			<i>P. aeruginosa</i>	21	17-20	16	<i>S. aureus</i>	ATCC 25923	10-18												
							<i>P. aeruginosa</i>	ATCC 27853	25-31												
							<i>E. coli</i>	ATCC 35218	25-31												
							<i>K. pneumoniae</i>	ATCC 700603	17-25												
							<i>H. influenzae</i>	ATCC 49247	23-29												
							<i>S. pneumoniae</i>	ATCC 49619	21-29												
			Enterobacterales	23	20-22	19	<i>E. coli</i>	ATCC 25922	29-35							Enterobacterales (other than meningitis) Enterobacterales (meningitis) Viridans group streptococci	25 25 27	22 25 27	<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
			<i>Acinetobacter</i> spp.	21	14-20	13	<i>S. aureus</i>	ATCC 25923	22-28												
<i>Haemophilus</i> spp.	26	-	-	<i>P. aeruginosa</i>	ATCC 27853	17-23															
<i>N. gonorrhoeae</i>	35	-	-	<i>K. pneumoniae</i>	ATCC 700603	16-24															
<i>Streptococcus</i> spp. β-Hemolytic group	24	-	-	<i>H. influenzae</i>	ATCC 49247	31-39															
<i>Streptococcus</i> spp. Viridans group	27	25-26	24	<i>N. gonorrhoeae</i>	ATCC 49226	39-51															
<i>N. meningitidis</i>	34	-	-	<i>S. pneumoniae</i>	ATCC 49619	30-35															
				<i>H. influenzae</i>		32-32															
				<i>M. catarrhalis</i>		24-21															
				<i>K. kingae</i>		30-30															

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	I R ≤	diameter (mm)	S ≥	R <	diameter (mm)	S ≥	R <	diameter (mm)			
Cefuroxime	CXM	30	Enterobacterales (Parenteral)	18	15-17	14	<i>E. coli</i> ATCC 25922	20-26	<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> ATCC 25922	20-26	<i>E. coli</i> ATCC 25922 <i>S. pneumoniae</i> ATCC 49619 <i>H. influenzae</i> ATCC 49766	28-34 26-34
			Enterobacterales (Oral) <i>Haemophilus</i> spp.	23 20	15-22 17-19	14 16	<i>S. aureus</i> ATCC 25923 <i>H. influenzae</i> ATCC 49766 <i>N. gonorrhoeae</i> ATCC 49226	27-35 28-36 33-41							
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				
Chloramphenicol	C	30	Enterobacterales	18	13-17	12	<i>E. coli</i> ATCC 25922	21-27	Enterobacterales <i>Staphylococcus</i> spp. Streptococcus groups A,B,C and G <i>S. pneumoniae</i> <i>H. influenzae</i> <i>M. catarrhalis</i> <i>B. pseudomallei</i>	17 18 19 21 28 30 50	17 18 19 21 28 30 22	<i>E. coli</i> ATCC 25922	21-27	<i>E. coli</i> ATCC 25922 <i>S. aureus</i> ATCC 29213 <i>S. pneumoniae</i> ATCC 49619 <i>H. influenzae</i> ATCC 49766	20-28 24-30 31-37
			All staphylococci <i>Enterococcus</i> spp. <i>Haemophilus</i> spp. <i>S. pneumoniae</i> Streptococcus spp. β-Hemolytic group Streptococcus spp. Viridans group <i>N. meningitidis</i>	18 18 18 29 21 21 21 26	13-17 13-17 13-17 26-28 -	12 12 12 25 20 17 17 19	<i>S. aureus</i> ATCC 25923 <i>H. influenzae</i> ATCC 49247 <i>S. pneumoniae</i> ATCC 49619	19-26 31-40 23-27							
Cinoxacin	CIN	100	Enterobacterales	19	15-18	14	<i>E. coli</i> ATCC 25922	26-32	Not available			Not available			
Ciprofloxacin	CIP	5	Enterobacterales except <i>Salmonella</i> spp.	26	22-25	21	<i>E. coli</i> ATCC 25922	29-38	Enterobacterales <i>Pseudomonas</i> spp. <i>Acinetobacter</i> spp. <i>S. aureus</i> Coagulase-negative staphylococci <i>Enterococcus</i> spp. (uncomplicated UTI only) <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. <i>A. sanguinicola</i> and <i>urinae</i> <i>K. kingae</i> <i>Aeromonas</i> spp.	25 50 50 50 50 15 50 30 31 27 26 26 25 21 28 27	22 26 21 21 24 15 16 30 31 27 26 26 25 21 28 24	<i>E. coli</i> ATCC 25922	29-37	<i>E. coli</i> ATCC 25922 <i>P. aeruginosa</i> ATCC 27853 <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>C. jejuni</i> ATCC 33560	25-33 21-27 19-25 22-28 32-40 34-42
			<i>Salmonella</i> spp. <i>P. aeruginosa</i> <i>Acinetobacter</i> spp. All staphylococci <i>Enterococcus</i> spp. <i>Haemophilus</i> spp. <i>N. gonorrhoeae</i> <i>N. Meningitidis</i>	31 25 21 21 21 21 41 35	21-30 19-24 16-20 16-20 16-20 -	20 18 15 15 15 -	<i>S. aureus</i> ATCC 25923 <i>P. aeruginosa</i> ATCC 27853 <i>H. influenzae</i> ATCC 49247 <i>N. gonorrhoeae</i> ATCC 49226	22-30 25-33 34-42 48-58							

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)	
Clarithromycin	CLR	15	All staphylococci	18	14-17	13	<i>S. aureus</i> ATCC 25923	26-32	Not available	Not available				
			<i>Haemophilus</i> spp.	13	11-12	10	<i>H. influenzae</i> ATCC 49247	11-17						
			<i>S. pneumoniae</i>	21	17-20	16	<i>S. pneumoniae</i> ATCC 49619	25-31						
			Streptococcus spp. β-Hemolytic group	21	17-20	16								
			<i>Streptococcus</i> spp. Viridans group	21	17-20	16								
Clindamycin	CD	2	All staphylococci	21	15-20	14	<i>S. aureus</i> ATCC 25923	24-30	<i>Staphylococcus</i> spp. 22 19 Streptococcus groups A,B,C and G 17 17 <i>S. pneumoniae</i> 19 19 Viridans group streptococci 19 19 <i>Corynebacterium</i> spp. 20 20	<i>S. aureus</i> ATCC 29213 23-29 <i>S. pneumoniae</i> ATCC 49619 22-28				
			<i>S. pneumoniae</i>	19	16-18	15	<i>S. pneumoniae</i> ATCC 49619	19-25						
			Streptococcus spp. β-Hemolytic Group	19	16-18	15								
			<i>Streptococcus</i> spp. Viridans Group	19	16-18	15								
Colistin sulfate	CS	10	Not available			<i>E. coli</i> ATCC 25922	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>Pseudomonas</i> spp. 50 20 <i>Acinetobacter</i> spp. 50 22 <i>S. pneumoniae</i> ATCC 49619 31-37 <i>H. influenzae</i> ATCC 49766 26-32	<i>E. coli</i> ATCC 25922 27-35 <i>P. aeruginosa</i> ATCC 27853 28-35 <i>S. pneumoniae</i> ATCC 49619 31-37 <i>H. influenzae</i> ATCC 49766 26-32				
			<i>P. aeruginosa</i>	19	16-18	15	<i>S. aureus</i> ATCC 25923	33-42						
			<i>Acinetobacter</i> spp.	18	15-17	14	<i>P. aeruginosa</i> ATCC 27853	28-35						
			<i>Haemophilus</i> spp.	16	-	1	<i>H. influenzae</i> ATCC 49247	21-31						
							<i>S. pneumoniae</i> ATCC 49619	30-38						
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>S. aureus</i> 20 20 <i>E. faecalis</i> 22 22 <i>E. faecium</i> 24 24 Viridans group streptococci 17 17	<i>E. coli</i> ATCC 25922 18-24 <i>S. aureus</i> ATCC 29213 20-26 <i>E. faecalis</i> ATCC 29212 20-26 <i>S. pneumoniae</i> ATCC 49619 24-30					
						<i>S. aureus</i> ATCC 25923	19-26							
						<i>S. pneumoniae</i> ATCC 49619	23-30							
Ertapenem	ETP	10	Enterobacterales	22	19-21	18	<i>E. coli</i> ATCC 25922	29-36	Enterobacterales 25 25 Viridans group streptococci 22 22 <i>H. influenzae</i> 23 23 <i>M. catarrhalis</i> 29 29	<i>E. coli</i> ATCC 25922 29-36 <i>S. pneumoniae</i> ATCC 49619 28-34 <i>H. influenzae</i> ATCC 49766 27-33				
			<i>Haemophilus</i> spp.	19	-	-	<i>S. aureus</i> ATCC 25923	24-31						
						<i>P. aeruginosa</i> ATCC 27853	13-21							
						<i>H. influenzae</i> ATCC 49247	20-28							
						<i>H. influenzae</i> ATCC 49766	27-33							
Erythromycin	E	15	All staphylococci	23	14-22	13	<i>S. aureus</i> ATCC 25923	22-30	<i>Staphylococcus</i> spp. 21 18 Streptococcus groups A,B,C and G 21 18 <i>S. pneumoniae</i> 22 19 <i>H. influenzae</i> 50 10 <i>M. catarrhalis</i> 23 20 <i>L. monocytogenes</i> 25 25 <i>C. jejuni</i> 20 20 <i>C. coli</i> 24 24 <i>K. kingae</i> 20 20	<i>S. aureus</i> ATCC 29213 23-29 <i>S. pneumoniae</i> ATCC 49619 26-32 <i>H. influenzae</i> ATCC 49766 10-16 <i>C. jejuni</i> ATCC 33560 27-35				
			<i>Enterococcus</i> spp.	23	14-22	13	<i>S. pneumoniae</i> ATCC 49619	25-30						
			<i>S. pneumoniae</i>	21	16-20	15								
			Streptococcus spp. β-Hemolytic group	21	16-20	15								
			<i>Streptococcus</i> spp. Viridans group	21	16-20	15								
Fosfomicin (includes G-6-P)	FOS	200	Enterobacterales	16	13-15	12	<i>E. coli</i> ATCC 25922	22-30	Enterobacterales (iv) 21 21 <i>E. coli</i> (oral) 24 24	<i>E. coli</i> ATCC 25922 26-34				
			( <i>E. coli</i> urinary tract isolates only)			<i>S. aureus</i> ATCC 25923	25-33							
			<i>Enterococcus</i> spp.	16	13-15	12								

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)			
Fusidic acid	FC	10	Not available			<i>S. aureus</i> ATCC 25923	24-32	<i>Staphylococcus</i> spp.	24	24	<i>S. aureus</i> ATCC 29213	26-32		
						<i>S. pneumoniae</i> ATCC 49619	9-16							
Gatifloxacin	GAT	5	Enterobacterales	18	15-17	14	<i>E. coli</i> ATCC 25922	30-37	Not available			Not available		
			<i>P. aeruginosa</i>	18	15-17	14	<i>S. aureus</i> ATCC 25923	27-33						
			<i>Acinetobacter</i> spp.	18	15-17	14	<i>P. aeruginosa</i> ATCC 27853	20-28						
			All staphylococci	23	20-22	19	<i>H. influenzae</i> ATCC 49247	33-41						
			<i>Enterococcus</i> spp.	18	15-17	14	<i>N. gonorrhoeae</i> ATCC 49226	45-56						
			<i>Haemophilus</i> spp.	18	-	-	<i>S. pneumoniae</i> ATCC 49619	24-31						
			<i>N. gonorrhoeae</i>	38	34-37	33								
			<i>S. pneumoniae</i>	21	18-20	17								
			<i>Streptococcus</i> spp. β-Hemolytic group	21	18-20	17								
			<i>Streptococcus</i> spp. Viridans group	21	18-20	17								
Gentamicin	CN	10	Enterobacterales	15	13-14	12	<i>E. coli</i> ATCC 25922	19-26	Enterobacterales	17	17	<i>E. coli</i> ATCC 25922	19-26	
			<i>P. aeruginosa</i>	15	13-14	12	<i>S. aureus</i> ATCC 25923	19-27	<i>Pseudomonas</i> spp.	15	15	<i>P. aeruginosa</i> ATCC 27853	16-21	
			<i>Acinetobacter</i> spp.	15	13-14	12	<i>P. aeruginosa</i> ATCC 27853	16-21	<i>Acinetobacter</i> spp.	17	17	<i>S. aureus</i> ATCC 29213	19-25	
			All staphylococci	15	13-14	12			<i>S. aureus</i>	18	18			
									Coagulase-negative staphylococci	22	22			
									<i>Corynebacterium</i> spp.	23	23			
Gentamicin	CN	30	Not available			Not available			<i>Enterococcus</i> spp. (Test for HLAR)	8	8	<i>E. faecalis</i> ATCC 29212	12-18	
									<i>E. faecalis</i> ATCC 51299			<i>E. faecalis</i> ATCC 51299	6	
Gentamicin	CN	120	<i>Enterococcus</i> spp. (Screening Test for HLAR)	10		6	<i>E. faecalis</i> ATCC 29212	16-23	Not available			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>Morganellaceae</i>	50	19	<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>Pseudomonas</i> spp.	50	20	<i>E. faecalis</i> ATCC 29212	24-30	
			<i>Haemophilus</i> spp.	16	-	-	<i>K. pneumoniae</i> ATCC BAA-1705	11-22	<i>Acinetobacter</i> spp.	24	21	<i>S. pneumoniae</i> ATCC 49619	34-42	
							<i>K. pneumoniae</i> ATCC BAA-2814	6-14	<i>Enterococcus</i> spp.	50	21	<i>H. influenzae</i> ATCC 49766	24-30	
							<i>H. influenzae</i> ATCC 49247	21-29	Viridans group streptococci	30	30			
									<i>H. influenzae</i>	20	20			
									<i>M. catarrhalis</i>	29	29			
									<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 <i>Morganellaceae</i>	22	22	<i>P. aeruginosa</i> ATCC 27853	26-31	
			<i>P. aeruginosa</i>	23	20-22	19	<i>P. aeruginosa</i> ATCC 27853	26-32	<i>P. aeruginosa</i>	22	22	<i>K. pneumoniae</i> ATCC BAA-2814	22-28	
							<i>K. pneumoniae</i> ATCC 700603	26-32	<i>Acinetobacter</i> spp.	24	24			
							<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>	23	-	-	<i>S. aureus</i> ATCC 25923	26-32	Not available			Not available		
			<i>Haemophilus</i> spp.	17	-	-	<i>H. influenzae</i> ATCC 49247	22-28						
			<i>S. pneumoniae</i>	17	-	-	<i>S. pneumoniae</i> ATCC 49619	19-27						

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)				
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	22	<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 staphylococci	50	24	<i>S. pneumoniae</i>	ATCC 49619	21-27
			All staphylococci	19	16-18	15				Enterococcus spp. (uncomplicate UTI only)	15	15	<i>H. influenzae</i>	ATCC 49766	31-39
			<i>Enterococcus</i> spp.	17	14-16	13				Streptococcus groups A,B,C and G	50	17			
			<i>Haemophilus</i> spp.	17	-	-				<i>S. pneumoniae</i>	50	16			
			<i>S. pneumoniae</i>	17	14-16	13				<i>H. influenzae</i>	30	30			
			Streptococcus spp. β-Hemolytic group	17	14-16	13				<i>M. catarrhalis</i>	29	29			
			Streptococcus spp. Viridans group	17	14-16	13				<i>P. multocida</i>	27	27			
										<i>K. kingae</i>	28	28			
										<i>Aeromonas</i> spp.	27	24			
			Levonadifloxacin	LND	10	Not available			<i>E. coli</i>	ATCC 25922	27-33	Not available			Not available
						<i>S. aureus</i>	ATCC 25923	32-39							
						<i>P. aeruginosa</i>	ATCC 27853	17-23							
						<i>H. influenzae</i>	ATCC 49247	33-41							
						<i>S. pneumoniae</i>	ATCC 49619	24-31							
Linezolid	LNZ	10	Not available			Not available			<i>Staphylococcus</i> spp.	21	21	<i>S. aureus</i>	ATCC 29213	21-27	
									<i>Enterococcus</i> spp.	20	20	<i>E. faecalis</i>	ATCC 29212	19-25	
									Streptococcus groups A,B,C and G	19	19	<i>S. pneumoniae</i>	ATCC 49619	23-29	
									<i>S. pneumoniae</i>	22	22				
									<i>Corynebacterium</i> spp.	25	25				
Linezolid	LNZ	30	All staphylococci	21	-	20	<i>S. aureus</i>	ATCC 25923	25-32	Not available			Not available		
			<i>Enterococcus</i> spp.	23	21-22	20	<i>S. pneumoniae</i>	ATCC 49619	25-34						
			<i>S. pneumoniae</i>	21	-	-									
			Streptococcus spp. β-Hemolytic group	21	-	-									
			Streptococcus spp. Viridans group	21	-	-									
Lomefloxacin	LOM	10	Enterobacterales	22	19-21	18	<i>E. coli</i>	ATCC 25922	27-33	Not available			Not available		
			<i>P. aeruginosa</i>	22	19-21	18	<i>S. aureus</i>	ATCC 25923	23-29						
			All staphylococci	22	19-21	18	<i>P. aeruginosa</i>	ATCC 27853	22-28						
			<i>Haemophilus</i> spp.	22	-	-	<i>H. influenzae</i>	ATCC 49247	33-41						
							<i>N. gonorrhoeae</i>	ATCC 49226	45-54						
Mecillinam	MEC	10	Enterobacterales	15	12-14	11	<i>E. coli</i>	ATCC 25922	24-30	<i>E. coli</i> , <i>Citrobacter</i> spp., <i>Klebsiella</i> spp., <i>Raoultella</i> spp., <i>Enterobacter</i> spp. and <i>P. mirabilis</i>	15	15	<i>E. coli</i>	ATCC 25922	24-30



Antibiotic	CODE	µg	CLSI INTERPRETATIVE CRITERIA <sup>1</sup>			CLSI QUALITY CONTROL <sup>1</sup>	diameter (mm)	EUCAST INTERPRETATIVE CRITERIA <sup>2</sup>			EUCAST QUALITY CONTROL <sup>3</sup>	diameter (mm)	
			S ≥	SDD	I			R ≤	S ≥	R <			diameter (mm)
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)	22	22	<i>S. pneumoniae</i> ATCC 49619	30-38
			<i>B. cepacia</i>	20	16-19	15	<i>H. influenzae</i> ATCC 49247	20-28	<i>H. influenzae</i>	24	18	<i>H. influenzae</i> ATCC 49766	27-35
			<i>Haemophilus</i> spp.	20	-	-	<i>S. pneumoniae</i> ATCC 49619	28-35	<i>Pseudomonas</i> spp. (other than meningitis)	24	18		
			<i>N. meningitidis</i>	30	-	-			<i>Pseudomonas</i> (meningitis)	24	24		
									<i>Acinetobacter</i> spp. (other than meningitis)	21	15		
									<i>Acinetobacter</i> spp. (meningitis)	21	21		
									Viridans group streptococci	25	25		
									<i>H. influenzae</i>	20	20		
									<i>M. catarrhalis</i>	33	33		
									<i>L. monocytogenes</i>	26	26		
									<i>A. sanguinicola</i> and <i>urinae</i>	31	31		
						<i>K. kingae</i>	30	30					
						<i>B. pseudomallei</i>	24	24					
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			
Mupirocin	MUP	200	<i>S. aureus</i> (Screening Test for HLMR)	7		6	<i>S. aureus</i> ATCC 25923	29-38	<i>S. aureus</i> (for nasal decontamination)	30	18	<i>S. aureus</i> ATCC 29213	31-37
						<i>S. aureus</i> ATCC BAA-1708	6						
Nafcillin	NAF	1	Not available			<i>S. aureus</i> ATCC 25923	16-22	Not available			Not available		
Nalidixic acid	NA	30	Enterobacterales	19	14-18	13	<i>E. coli</i> ATCC 25922	22-28	<i>H. influenzae</i>	23	*	<i>E. coli</i> ATCC 25922	22-28
								<i>M. catarrhalis</i>	23	*	<i>H. influenzae</i> ATCC 49766	26-32	
								<i>P. multocida</i>	23	*			
Neomycin	N	30	Not available			Not available		Not available			<i>E. coli</i> ATCC 25922	14-20	
											<i>S. aureus</i> ATCC 29213	16-22	
Netilmicin	NET	10	Not available			Not available		Enterobacterales	15	12	<i>E. coli</i> ATCC 25922	18-24	
								<i>Pseudomonas</i> spp.	12	12	<i>P. aeruginosa</i> ATCC 27853	15-21	
								<i>Acinetobacter</i> spp.	16	16	<i>S. aureus</i> ATCC 29213	20-26	
								<i>S. aureus</i>	18	18			
								Coagulase-negative Staphylococci	22	22			

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)							
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>Staphylococcus</i> spp.	13	13	<i>S. aureus</i>	ATCC 29213	17-23				
									<i>Enterococcus</i> spp.	15	15	<i>E. faecalis</i>	ATCC 29212	18-24				
									Streptococcus groups A,B,C and G	15	15	<i>S. pneumoniae</i>	ATCC 49619	25-31				
									<i>A. sanguinicola</i> and <i>urinae</i>	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									
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	17	13-16	12	<i>E. coli</i>	ATCC 25922	28-35	Enterobacterales	22	22	<i>E. coli</i>	ATCC 25922	28-35			
			<i>P. aeruginosa</i>	17	13-16	12	<i>S. aureus</i>	ATCC 25923	17-28	<i>Staphylococcus</i> spp.	17	*	<i>S. aureus</i>	ATCC 29213	18-24			
			<i>Staphylococcus</i> spp.	17	13-16	12	<i>P. aeruginosa</i>	ATCC 27853	22-29	<i>Enterococcus</i> spp.	12	12	<i>E. faecalis</i>	ATCC 29212	16-22			
			<i>Enterococcus</i> spp.	17	13-16	12	<i>S. pneumoniae</i>	ATCC 49619	15-21	Streptococcus groups A,B,C and G	11	*	<i>S. pneumoniae</i>	ATCC 49619	18-24			
												<i>S. pneumoniae</i>	10	*				
									<i>A. sanguinicola</i> and <i>urinae</i>	17	17							
Ofloxacin	OFX	5	Enterobacterales	16	13-15	12	<i>E. coli</i>	ATCC 25922	29-33	Enterobacterales	24	22	<i>E. coli</i>	ATCC 25922	29-33			
			<i>P. aeruginosa</i>	16	13-15	12	<i>S. aureus</i>	ATCC 25923	24-28	<i>S. aureus</i>	50	20	<i>S. aureus</i>	ATCC 29213	21-27			
			All staphylococci	18	15-17	14	<i>P. aeruginosa</i>	ATCC 27853	17-21	Coagulase-negative staphylococci	50	24	<i>S. pneumoniae</i>	ATCC 49619	18-24			
			<i>Haemophilus</i> spp.	16	-	-	<i>H. influenzae</i>	ATCC 49247	31-40	<i>S. pneumoniae</i>	50	13	<i>H. influenzae</i>	ATCC 49766	31-37			
			<i>S. pneumoniae</i>	16	13-15	12	<i>N. gonorrhoeae</i>	ATCC 49226	43-51	<i>S. pneumoniae</i>	30	30						
			Streptococcus spp. β-Hemolytic group	16	13-15	12	<i>S. pneumoniae</i>	ATCC 49619	16-21	<i>H. influenzae</i>	28	28						
			Streptococcus spp. Viridans group	16	13-15	12												
			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	<i>S. pneumoniae</i>	ATCC 49619	≤12	<i>S. pneumoniae</i>	20	*	<i>S. aureus</i>	ATCC 29213	19-25
						<i>S. pneumoniae</i>	20	-	-									
Pefloxacin	PEF	5	<i>Salmonella</i> spp.	24	-	23	<i>E. coli</i>	ATCC 25922	25-33	<i>Salmonella</i> spp.	24	24	<i>E. coli</i>	ATCC 25922	26-32			

Antibiotic	CODE	µg	CLSI INTERPRETATIVE CRITERIA <sup>1</sup>			CLSI QUALITY CONTROL <sup>1</sup>	diameter (mm)	EUCAST INTERPRETATIVE CRITERIA <sup>2</sup>			EUCAST QUALITY CONTROL <sup>3</sup>	diameter (mm)			
			S ≥	SDD	I R ≤			S ≥	R <	diameter (mm)					
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	18	*					
								Viridans group streptococci (screen)	18	18					
								<i>H. influenzae</i>	12	*					
								<i>L. monocytogenes</i>	13	13					
								<i>P. multocida</i>	17	17					
								<i>Corynebacterium</i> spp.	29	29					
								<i>A. sanguinicola</i> and <i>urinae</i>	21	21					
								<i>K. kingae</i>	25	25					
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	Enterobacteriales	21	18-20	17	<i>E. coli</i>	ATCC 25922	24-30	Not available		Not available			
			<i>P. aeruginosa</i>	21	15-20	14	<i>P. aeruginosa</i>	ATCC 27853	25-33						
			<i>Acinetobacter</i> spp.	21	18-20	17	<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>K. pneumoniae</i>	ATCC 700603	14-20		
											<i>H. influenzae</i>	ATCC 49766	32-40		
Piperacillin-tazobactam	TZP	110 (100/10)	Enterobacteriales	21	18-20	17	<i>E. coli</i>	ATCC 25922	24-30	Not available		Not available			
			<i>P. aeruginosa</i>	21	15-20	14	<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			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	18	<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>Enterococcus</i> spp.	22	20	<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.	19	16-18	15									
			Viridans group												

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)				
Rifampicin	RD	5	All staphylococci	20	17-19	16	<i>E. coli</i>	ATCC 25922	8-10	<i>Staphylococcus</i> spp.	26	23	<i>S. aureus</i>	ATCC 29213	30-36
			<i>Enterococcus</i> spp.	20	17-19	16	<i>S. aureus</i>	ATCC 25923	26-34	Streptococcus groups	21	15	<i>S. pneumoniae</i>	ATCC 49619	26-32
			<i>Haemophilus</i> spp.	20	17-19	16	<i>H. influenzae</i>	ATCC 49247	22-30	A,B,C and G			<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	17			
			<i>N. meningitidis</i>	25	20-24	19				<i>H. influenzae</i>	18	18			
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	Not available			Not available		
							<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
Tedizolid	TZD	2	Not available				<i>S. aureus</i>	ATCC 25923	18-24	<i>S. aureus</i>	21	21	<i>S. aureus</i>	ATCC 29213	19-25
							<i>E. faecalis</i>	ATCC 29212	14-21	Streptococcus groups A, B, C and G	18	18	<i>S. pneumoniae</i>	ATCC 49619	19-25
							<i>S. pneumoniae</i>	ATCC 49619	18-25	<i>S. anginosus</i> group	18	18			
Teicoplanin	TEC	30	<i>Enterococcus</i> spp.	14	11-13	10	<i>S. aureus</i>	ATCC 25923	15-21	<i>Enterococcus</i> spp.	16	16	<i>E. faecalis</i>	ATCC 29212	15-21
										Streptococcus groups A,B,C and G	15	15	<i>S. pneumoniae</i>	ATCC 49619	18-24
										<i>S. pneumoniae</i>	17	17	<i>E. faecalis</i>	ATCC 51299	16-20
										Viridans group streptococci	16	16			
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	22	19	<i>S. pneumoniae</i>	ATCC 49619	27-33
							<i>H. influenzae</i>	ATCC 49247	17-23	<i>S. pneumoniae</i>	25	22	<i>H. influenzae</i>	ATCC 49766	14-20
							<i>S. pneumoniae</i>	ATCC 49619	27-33	<i>H. influenzae</i>	50	12			
										<i>M. catarrhalis</i>	23	20			
Temocillin	TMO	30	Not available				Not available		<i>E. coli, 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	19	<i>S. aureus</i>	ATCC 29213	23-31
			<i>Acinetobacter</i> spp.	15	12-14	11	<i>S. aureus</i>	ATCC 25923	24-30	Streptococcus groups	23	20	<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	22	<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	22			
			<i>N. gonorrhoeae</i>	38	31-37	30				<i>M. catarrhalis</i>	28	25			
			<i>S. pneumoniae</i>	23	19-22	18				<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. Viridans group	23	19-22	18				<i>Corynebacterium</i> spp.	24	24			
										<i>K. kingae</i>	28	28			
										<i>B. pseudomallei</i>	50	23			
			Ticaracillin	TC	75	Not available				<i>E. coli</i>	ATCC 25922	24-30	Enterobacterales	23	20
<i>P. aeruginosa</i>	ATCC 27853	21-27								<i>Pseudomonas</i> spp.	50	18			
<i>E. coli</i>	ATCC 35218	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)	diameter (mm)	S ≥	R <	diameter (mm)	diameter (mm)			
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	
Tigecycline	TGC	15	Not available	20	15-19	14	<i>P. aeruginosa</i> ATCC 27853	20-28	<i>E. coli</i>	18	18	<i>E. coli</i> ATCC 25922	20-27	
							<i>E. coli</i> ATCC 35218	21-25	<i>S. aureus</i> ATCC 25923	20-25	<i>Staphylococcus</i> spp.	19	19	<i>S. aureus</i> ATCC 29213
Tobramycin	TOB	10	Enterobacterales	15	13-14	12	<i>P. aeruginosa</i> ATCC 27853	20-26	<i>E. faecalis</i>	20	22	<i>E. faecalis</i> ATCC 29212	20-26	
							<i>Acinetobacter</i> spp.	15	13-14	12	<i>H. influenzae</i> ATCC 49247	23-31	<i>E. faecium</i>	22
Trimethoprim	TM	5	Enterobacterales	16	11-15	10	<i>N. gonorrhoeae</i> ATCC 49226	30-40	<i>Streptococcus</i> groups A,B,C and G	19	19	<i>S. pneumoniae</i> ATCC 49619	24-30	
							All staphylococci	16	11-15	10	<i>S. pneumoniae</i> ATCC 49619	23-29	Coagulase-negative staphylococci	22
Trimethoprim-sulfamethoxazole	SXT	25 (1.25/23.75)	Enterobacterales	16	11-15	10	<i>E. coli</i> ATCC 25922	21-28	Enterobacterales	15	15	<i>E. coli</i> ATCC 25922	21-28	
							<i>S. aureus</i> ATCC 25923	19-26	<i>Staphylococcus</i> spp.	14	14	<i>S. aureus</i> ATCC 29213	22-28	
Vancomycin	VA	5	Not available	16	11-15	10	<i>S. aureus</i> ATCC 25923	23-29	<i>E. faecalis</i>	14	11	<i>E. coli</i> ATCC 25922	23-29	
							<i>Acinetobacter</i> spp.	16	11-15	10	<i>S. maltophilia</i>	50	16	<i>S. aureus</i> ATCC 29213
Vancomycin	VA	30	Enterococcus spp.	17	15-16	14	<i>B. cepacia</i>	24-32	<i>Acinetobacter</i> spp.	14	11	<i>S. pneumoniae</i> ATCC 49619	17-23	
							<i>S. pneumoniae</i>	17	16-18	15	<i>H. influenzae</i> ATCC 49247	24-32	<i>E. faecalis</i>	17
Vancomycin	VA	30	Streptococcus spp. β-Hemolytic Group	17	-	-	<i>S. pneumoniae</i> ATCC 49619	20-27	<i>Staphylococcus</i> spp.	17	14	<i>S. pneumoniae</i> ATCC 49619	18-26	
							Streptococcus spp. Viridans Group	17	11-15	10	<i>Streptococcus</i> groups A,B,C and G	18	15	<i>H. influenzae</i> ATCC 49766

\* Refer to EUCAST breakpoint tables.

## References

1. CLSI. Performance Standards for Antimicrobial Susceptibility Testing; 31st ed. CLSI Supplement M100S. Wayne, PA: Clinical and Laboratory Standards Institute; 2021.
2. The European Committee on Antimicrobial Susceptibility Testing. Breakpoint tables for interpretation of MICs and zone diameters. Version 11.0, 2021. <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 11.0, 2021. <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 <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	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																

