

جداول میکروارگانیسم های بیماریزای اولویت دار و آنتی بیوتیک های تعیین شده برای آزمایش تعیین حساسیت ضد میکروبی در برنامه مهار مقاومت میکروبی

ويرايش چهارم CLSI M100 29th ed., 2019 بر اساس

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Eschoviolia odi								
Escherichia coli Antimicrobial Agent	Disk Content	Inter	one Diamet pretive Cr rest whole	iteria	Comments			
		S	I	R				
PENICILLINS								
Ampicillin	10 μg	≥ 17	14–16	≤ 13	Results of ampicillin testing can be used to predict results for amoxicillin.			
CEPHEMS								
Cefazolin (PARENTERAL)	30 μg	≥ 23	20–22	≤ 19	Breakpoints when cefazolin is used for therapy of infections other than uncomplicated UTIs due to <i>E.coli</i> , <i>K. pneumoniae & P.mirabilis</i> . Breakpoints are based on a dosage regimen of 2 g administered every 8 h.			
Cefazolin (PARENTERAL) (urine)	30 μg	≥ 15	-	≤ 14	Breakpoints when cefazolin is used for therapy of uncomplicated UTIs due to <i>E.coli</i> , <i>K pneumoniae & P.mirabilis</i> . Breakpoints are based on a dosage regimen of 1 g administered every 12 h.			
Cefazolin (ORAL) (surrogate test for oral cephalosporins & uncomplicated UTI) (urine)	30 μg	≥ 15	-	≤ 14	(a) Breakpoints are for cefazolin when cefazolin results are used to predict results for the oral agents cefaclor, cefdinir, cefpodoxime, cefprozil, cefuroxime, cephalexin, and loracarbef when used for therapy of uncomplicated UTIs due to <i>E. coli, K. pneumoniae</i> , and <i>P. mirabilis</i> . (b) Cefazolin as a surrogate may overcall resistance to cefdinir, cefpodoxime, and cefuroxime. If cefazolin tests resistant, test these drugs individually if needed for therapy.			
Cefepime	30 μg	≥ 25	19–24	≤ 18	The breakpoint for susceptible is based on a dosage regimen of 1 g administered every 12 h. The Breakpoint for SDD* is based on dosing regimens that result in higher cefepime exposure, either higher doses or more frequent doses or both, up to approved maximum dosing regimens. *SDD: Susceptible-Dose Dependent			
Cefotaxime	30 μg	≥ 26	23–25	≤ 22	Breakpoints are based on a dosage regimen of 1 g administered every 8 h for cefotaxime.			



Eschariahia aali (aantin	nod)								
Escherichia coli (continued)									
Ceftriaxone	30 μg	≥ 23	20–22	≤ 19	Breakpoints are based on a dosage				
					regimen of 1 g administered every 24 h				
					for ceftriaxone.				
Ceftazidime	30 μg	≥ 21	18–20	≤ 17	Breakpoints are based on a dosage				
					regimen of 1 g administered every 8 h.				
CARBAPENEMS									
Imipenem	10 μg	≥ 23	20–22	≤ 19	(a) Imipenem: Breakpoints are based on a				
or/and Meropenem	10 μg	≥ 23	20–22	≤ 19	dosage regimen of 500 mg administered				
					every 6 h or 1 g every 8 h.				
					(b) Meropenem: Breakpoints are based on				
					a dosage regimen of 1 g administered				
					every 8 h.				
AMINOGLYCOSIDES									
Gentamicin	10 μg	≥ 15	13-14	≤ 12					
Amikacin	30 μg	≥ 17	15–16	≤ 14					
FLUOROQUINOLONES									
Ciprofloxacin	5 μg	≥ 26	22-25	≤ 21	Breakpoints for ciprofloxacin are				
_					based on a dosage regimen of 400 mg				
					IV or 500 mg orally administered every				
					12 h.				
FOLATE PATHWAY INHIBITO	ORS								
Trimethoprim- sulfamethoxazole	1.25/ 23.75	≥ 16	11–15	≤ 10					
_	μg								
NITROFURANS									
Nitrofurantoin	300 μg	≥ 17	15–16	≤ 14	For testing and reporting urinary tract				
					isolates only.				



Klebsiella pneumoniae	2				
Antimicrobial Agent	Disk Content	Inter	one Diamet pretive Cr rest whole	iteria	Comments
		S	I	R	
CEPHEMS					
Cefazolin (PARENTERAL)	30 μg	≥ 23	20–22	≤ 19	Breakpoints when cefazolin is used for therapy of infections other than uncomplicated UTIs due to <i>E.coli</i> , <i>K pneumoniae</i> & <i>P.mirabilis</i> . Breakpoints are based on a dosage regimen of 2 g administered every 8 h.
Cefazolin (PARENTERAL) (urine)	30 μg	≥ 15	-	≤ 14	Breakpoints when cefazolin is used for therapy of uncomplicated UTIs due to <i>E.coli</i> , <i>K pneumoniae & P.mirabilis</i> . Breakpoints are based on a dosage regimen of 1 g administered every 12 h.
Cefazolin (ORAL) (surrogate test for oral cephalosporins & uncomplicated UTI) (urine)	30 μg	≥ 15	-	≤ 14	(a) Breakpoints are for cefazolin when cefazolin results are used to predict results for the oral agents cefaclor, cefdinir, cefpodoxime, cefprozil, cefuroxime, cephalexin, and loracarbef when used for therapy of uncomplicated UTIs due to <i>E. coli, K. pneumoniae</i> , and <i>P. mirabilis</i> . (b) Cefazolin as a surrogate may overcall resistance to cefdinir, cefpodoxime, and cefuroxime. If cefazolin tests resistant, test these drugs individually if needed for therapy.
Cefepime	30 μg	≥ 25	19–24	≤ 18	The Breakpoint for susceptible is based on a dosage regimen of 1 g every 12 h. The Breakpoint for SDD* is based on dosing regimens that result in higher cefepime exposure, either higher doses or more frequent doses or both, up to approved maximum dosing regimens. *SDD: Susceptible-Dose Dependent
Cefotaxime	30 μg	≥ 26	23–25	≤ 22	Breakpoints are based on a dosage regimen of 1 g administered every 8 h for cefotaxime.



Klebsiella pneumonia	(continu	ed)			
Ceftriaxone	30 μg	≥ 23	20–22	≤ 19	Breakpoints are based on a dosage
					regimen of 1 g administered every 24 h
					for ceftriaxone.
Ceftazidime	30 μg	≥ 21	18–20	≤ 17	Breakpoints are based on a dosage
					regimen of 1 g administered every 8 h.
CARBAPENEMS	T	1			,
Imipenem	10 μg	≥ 23	20–22	≤ 19	(a) Imipenem: Breakpoints are based on
or/and Meropenem	10 μg	≥ 23	20–22	≤ 19	a dosage regimen of 500 mg
					administered every 6 h or 1 g every 8 h.
					(b) Meropenem:Interpretive criteria are
					based on a dosage regimen of 1 g
					administered every 8 h.
AMINOGLYCOSIDES	1		T		
Gentamicin	10 μg	≥ 15	13-14	≤ 12	
A '1 '	20	> 17	15 16	- 1.4	
Amikacin	30 μg	≥ 17	15–16	≤ 14	
FLUOROQUINOLONES					
Ciprofloxacin	5 μg	≥ 26	22-25	≤ 21	Breakpoints for ciprofloxacin are
	- 1-8				based on a dosage regimen of 400 mg
					IV or 500 mg orally administered
					every 12 h.
FOLATE PATHWAY INHIBI	TORS				
Trimethoprim-	1.25/ 23.75	≥ 16	11–15	≤ 10	
sulfamethoxazole	μg				
NITROFURANS					
Nitrofurantoin	300 μg	≥ 17	15–16	≤ 14	For testing and reporting urinary tract
					isolates only.



*When fecal isolates of *Salmonella* are tested, only ampicillin, a fluoroquinolone, and trimethoprim-sulfamethoxazole should be reported routinely. In addition, for extraintestinal isolates of *Salmonella* spp., a third-generation cephalosporin and chloramphenicol should be tested and reported.

Salmonella spp.					
Antimicrobial Agent	Disk Content	Inter	Zone Diameter Interpretive Criteria (nearest whole mm)		Comments
		S	I	R	
PENICILLINS					
Ampicillin	10 μg	≥ 17	14–16	≤ 13	Results of ampicillin testing can be used to predict results for amoxicillin.
CEPHEMS					
Ceftriaxone (For extraintestinal isolate)	30 μg	≥ 23	20–22	≤ 19	Breakpoints are based on a dosage regimen of 1 g administered every 24 h for ceftriaxone
Ceftazidime (For extraintestinal isolate)	30 μg	≥ 21	18–20	≤ 17	Breakpoints are based on a dosage regimen of 1 g administered every 8 h.
FLUOROQUINOLONES					
Ciprofloxacin	5 μg	≥ 31	21-30	≤ 20	Isolates of <i>Salmonella</i> spp. that test not susceptible to ciprofloxacin, levofloxacin, ofloxacin, or pefloxacin may be associated with clinical failure or delayed response in fluoroquinolonetreated patients with salmonellosis.
FOLATE PATHWAY INH					
Trimethoprim-sulfamethoxazole	1.25/ 23.75 μg	≥ 16	11–15	≤ 10	
PHENICOLS	20	. 10	10 15	- 10	
Chloramphenicol	30 μg	≥ 18	13–17	≤ 12	



*When fecal isolates of *Shigella* spp. are tested, only ampicillin, a fluoroquinolone, and trimethoprim-sulfamethoxazole should be reported routinely.

Shigella spp.					
Antimicrobial Agent	Disk Content	Zone Diameter Interpretive Criteria (nearest whole mm)			Comments
		S	I	R	
PENICILLINS					
Ampicillin	10 μg	≥ 17	14–16	≤ 13	Results of ampicillin testing can be used to predict results for amoxicillin.
CEPHEMS					
Ceftriaxone (Only for ciprofloxacin resistant strain)	30 μg	≥ 23	20–22	≤ 19	Breakpoints are based on a dosage regimen of 1 g administered every 24 h for ceftriaxone
Ceftazidime (Only for ciprofloxacin resistant strain)	30 μg	≥ 21	18–20	≤ 17	Breakpoints are based on a dosage regimen of 1 g administered every 8 h.
FLUOROQUINOLONES					
Ciprofloxacin	5 μg	≥ 26	22-25	≤ 21	Breakpoints for ciprofloxacin are based on a dosage regimen of 400 mg IV or 500 mg orally administered every 12 h.
FOLATE PATHWAY INH	IBITORS				
Trimethoprim-sulfamethoxazole	1.25/ 23.75 μg	≥ 16	11–15	≤ 10	



	ended-Spectrum β-Lactamases in <i>I</i> Salmonella spp and <i>Shigella</i> spp.	Escherichia coli, Klebsiella
Test	Criteria for Performance of ESBL Test	ESBL Test
Antimicrobial concentration	Cefpodoxime 10 μg or Ceftazidime 30 μg or Aztreonam 30 μg or Cefotaxime 30 μg or Ceftriaxone 30 μg (Using more than one antimicrobial agent improves the sensitivity of ESBL detection.)	Ceftazidime Ceftazidime-clavulanatea 30 μg 30/10 μg and Cefotaxime 30 μg Cefotaxime-clavulanate 30/10 μg (Testing necessitates using both cefotaxime and ceftazidime, alone and in combination with clavulanate.)
Results	Cefpodoxime zone ≤ 17 mm Ceftazidime zone ≤ 22 mm Aztreonam zone ≤ 27 mm Cefotaxime zone ≤ 27 mm Ceftriaxone zone ≤ 25 mm Zones above may indicate ESBL production.	A ≥ 5mm increase in a zone diameter for either antimicrobial agent tested in combination with clavulanate vs the zone diameter of the agent when tested alone = ESBL (eg, ceftazidime zone = 16; ceftazidime-clavulanate zone = 21).
Reporting		For all confirmed ESBL-producing strains: If laboratories do not use current cephalosporin and aztreonam breakpoints, the test interpretation should be reported as resistant for all penicillins, cephalosporins, and aztreonam. If laboratories use current cephalosporin and aztreonam breakpoints, then test interpretations for these agents do not need to be changed from susceptible to resistant.



D 1	•				ازمایشگاه مربع سرامت
Pseudomonas aer Antimicrobial Agent	Disk Content	Zone Diameter Interpretive Criteria (nearest whole mm)		iteria	Comments
		S	I	R	
β-LACTAM/β-LACTAM	IASE INHIBIT	OR CO	MBINATI	ONS	
Piperacillin-tazobactam	100/10 μg	≥ 21	15–20	≤ 14	Breakpoints for piperacillin (alone or with tazobactam) are based on a piperacillin dosage regimen of at least 3 g administtered every 6 h.
CEPHEMS					<u> </u>
Cefepime	30 μg	≥ 18	15-17	≤ 14	Breakpoints are based on a dosage regimen of 1 g administtered every 8 h or 2 g administtered every 12 h.
Ceftazidime	30 μg	≥ 18	15-17	≤ 14	Breakpoints are based on a dosage regimen of 1 g administtered every 6 h or 2 g administtered every 8 h.
CARBAPENEMS				-	
Imipenem	10 μg	≥ 19	16-18	≤ 15	Breakpoints for imipenem are based on a dosage regimen of 1 g administtered every 8 h or 500 mg administtered every 6 h.
Meropenem	10 μg	≥ 19	16-18	≤ 15	Breakpoints for meropenem are based on a dosage regimen of 1 g administered every 8 h.
AMINOGLYCOSIDES					1
Gentamicin	10 μg	≥ 15	13-14	≤ 12	
Tobramycin	10 μg	≥ 15	13-14	≤ 12	
Amikacin	30 μg	≥ 17	15–16	≤ 14	
LIPOPEPTID					
Colistin	-	-	-	-	(a) Colistin (methanesulfonate) should generally be administered with a loading dose and at the maximum recommended doses, in combination with other agents. (b) The only approved MIC method for testing is broth microdilution. Disk diffusion and gradient diffusion methods such as "Etest" should not be performed. MIC Interpretive Criteria (μg/mL) S I R
					≤2 - ≥4



Pseudomonas aeruginosa (continued)							
FLUOROQUINOLONES Ciprofloxacin	5 μg	≥ 25	19-24	≤ 18	Breakpoints are based on a dosage regimen of 400 mg IV administered every 8 h.		



					ازماتسجاه مرامت
Acinetobacter spp.	•				
Antimicrobial Agent	Disk Content	Zone Diameter Interpretive Criteria (nearest whole mm)			Comments
		S	I	R	
β-LACTAM/β-LACTAM	ASE INHIBIT	OR CO	MBINATI	ONS	
Ampicillin-sulbactam	10/10 μg	≥ 15	12-14	≤11	
Piperacillin-tazobactam	100/10 μg	≥ 21	18–20	≤ 17	
CEPHEMS					
Cefepime	30 μg	≥ 18	15-17	≤ 14	
Ceftazidime	30 μg	≥ 18	15-17	≤ 14	
CARBAPENEMS					
Imipenem	10 μg	≥ 22	19-21	≤ 18	Breakpoints are based on a dosage regimen of 500 mg administered every 6 h.
Meropenem	10 μg	≥ 18	15-17	≤ 14	Breakpoints are based on a dosage regimen of 1 g administered every 8 h or 500 mg administered every 6 h.
AMINOGLYCOSIDES				,	
Gentamicin	10 μg	≥ 15	13-14	≤ 12	
Tobramycin	10 μg	≥ 15	13-14	≤ 12	
Amikacin	30 μg	≥ 17	15–16	≤ 14	
TETRACYCLINES					
Minocycline	30 μg	≥ 16	13–15	≤ 12	
LIPOPEPTID					
Colistin	-	-	-	-	(a) Colistin (methanesulfonate) should generally be administered with a loading dose and at the maximum recommended doses, in combination with other agents. (b) Applies to A. baumannii complex only. (c) The only approved MIC method for testing is broth microdilution. Disk diffusion and gradient diffusion methods such as "Etest" should not be performed. MIC Interpretive Criteria (μg/mL) S I R ≤ 2 - ≥ 4



Acinetobacter spp. (continued)								
FLUOROQUINOLONES								
Ciprofloxacin	5 μg	≥21	16-20	≤ 15				
_								
FOLATE PATHWAY INH	FOLATE PATHWAY INHIBITORS							
Trimethoprim-	1.25/ 23.75	≥ 16	11–15	≤ 10				
sulfamethoxazole	μg							



Staphylococcus aur	eus				
Antimicrobial Agent	Disk Content	Zone Diameter Interpretive Criteria (nearest whole mm)			Comments
		S	I	R	
PENICILLINASE-LABILI	E PENICILL	INS	l.		
Penicillin	10 units	≥ 29	-	≤ 28	(a) Penicillin should be used to test the susceptibility of all staphylococci to all penicillinase-labile penicillins. Penicillinresistant strains of staphylococci produce β-lactamase. Perform test(s) to detect β-lactamase production on staphylococci for which the penicillin MICs are ≤ 0.12 μg/mL or zone diameters ≥ 29 mm before reporting the isolate as penicillin susceptible. Rare isolates of staphylococci that contain genes for β-lactamase production may appear negative by β-lactamase tests. Consequently, for serious infections requiring penicillin therapy, laboratories should perform MIC tests and β-lactamase testing on all subsequent isolates from the same patient. PCR testing of the isolate for the blaZ β-lactamase gene may be considered. See Tables 3D and 3E. (b) For oxacillin-resistant staphylococci report penicillin as resistant or do not report.



Oxacillin (disk testing is not reliable for S. aureus and S. lugdunensis.) S S Cefoxitin (surrogate test for oxacillin)
(Cefoxitin) (cefox
Hinton Agar



C411 .		4.9	1			وسرامت	ازمایشگاهمرمد
Staphylococcus au	reus (cont	tinued	1)				
GLYCOPEPTIDES	T	T	ı	1			
Vancomycin	-	-	-	-	susceptible vancomycii course of p (b) MIC te to determin isolates vancomycii differentiate susceptible from isolates, differentiate susceptible -resistant Staphyloco	isolates of vancomycin-i nor does e among	ay become the during the trapy. The performed tibility of all ococci to the est does not transcomycing. S. aureus intermediate the test vancomycindiate, and the test of the the test vancomycindiate, and the test vanc
					size zones (c) Send a the vancon	of inhibition. ny S . aureuny sin is ≥ 8	s for which
					MIC In	nterpretive ((µg/mL)	Criteria
					S	(μg/IIIL)	R
					< 2	4-8	≥ 16
Teicoplanin (Optional) (Investigation)	-	-	-	-		Interpretive ((µg/mL)	_
					S	I	R
					≤ 8	16	≥ 32
TETRACYCLINES							
Doxycycline	30 μg	≥ 16	13-15	≤ 12			
MACROLIDES							
Erythromycin	15 μg	≥ 23	14-22	≤ 13		tinely rep isolated from	oorted on the urinary
FLUOROQUINOLONES		ı		1			
Ciprofloxacin	5 µg	≥ 21	16–20	≤ 15	resistance of with quinol that are in become re four days a	ccus spp. n during prolon lones. Theref nitially susce sistant with fter initiation repeat isola	iged therapy fore, isolates eptible may in three to a of therapy.



Staphylococcus aureus (continued)								
NITROFURANTOINS								
Nitrofurantoin	300 μg	≥ 17	15-16	≤ 14	For testing and reporting urinary tract isolates only			
FOLATE PATHWAY INH	IBITORS				•			
Trimethoprim-	1.25/ 23.75	≥ 16	11-15	≤ 10				
sulfamethoxazole	μg							
LINCOSAMIDES								
Clindamycin	2 µg	≥ 21	15-20	≤ 14	Inducible clindamycin resistance can be detected by disk diffusion using the D-zone test or by broth microdilution.15-µg erythromycin and 2-µg clindamycin disks spaced 15–26 mm apart. (See Table 3G)			
ANSAMYCINS								
Rifampin	5 μg	≥ 20	17-19	≤ 16	Rifampin should be used but not reported. Rifampin should not be used alone for antimicrobial therapy.			



Enterococcus spp. Antimicrobial Agent	Disk Content	Inter	one Diamet pretive Cri rest whole	iteria	Comments
J		Inter (near	pretive Cri	iteria	Comments
		S		mm)	
DELIVORA A DAG			I	R	
PENICILLINS Ampicillin	10 μg	≥ 17	_	≤ 16	The results of ampicillin
	10 45				susceptibility tests should be used to predict the activity of amoxicillin. Ampicillin results may be used to predict susceptibility to amoxicillin-clavulanate, ampicillin-sulbactam, and piperacillin-tazobactam among non-β-lactamase producing enterococci. Ampicillin susceptibility can be used to predict imipenem susceptibility, providing the species is confirmed to be <i>E. faecalis</i> .
GLYCOPEPTIDES					Ü
Vancomycin	30 μg	≥ 17	15-16	≤ 14	When testing vancomycin against enterococci, plates should be held a full 24 hours for accurate detection of resistance. Zones should be examined using transmitted light; the presence of a haze or any growth within the zone of inhibition indicates resistance. Organisms with intermediate zones should be tested by an MIC method as described in M07-A10. For isolates for which the vancomycin MICs are 8 to 16 μg/mL, perform biochemical tests for identification as listed under the "Vancomycin MIC ≥ 8 μg/mL" test found in Table 3F.
FLUOROQUINOLONES Ciprofloxacin	5 110	≥ 21	16–20	< 15	
NITROFURANTOINS	5 μg	<u> </u>	10-20	≤ 15	
Nitrofurantoin	300 μg	≥ 17	15-16	≤ 14	For testing and reporting urinary tract isolates only
OXAZOLIDINONES					
Linezolid	30 μg	≥ 23	21-22	≤ 20	



HIGH-LEVEL AMINOGLYCOSIDES for Enterococcus spp.								
Antimicrobial Agent	Disk Content		Diameter Interp eeria (nearest w mm)		Comments			
		S	Inconclusive	R				
Gentamicin	120 μg	≥ 10	7-9	= 6				



* For disk diffusion, test a maximum of 9 disks on a 150-mm plate and 4 disks on a 100-mm plate.

Streptococcus pne	eumoniae				
Antimicrobial Agent	Disk Content	Zone Diameter		riteria	Comments
		S	I	R	-
PENICILLINS					
Penicillin (nonmeningitis)	1 μg Oxacillin	≥ 20	-	-	Isolates of pneumococci with oxacillin zone sizes of ≥ 20 mm are susceptible (MIC $\leq 0.06~\mu g/mL$) to penicillin. Penicillin and cefotaxime, ceftriaxone, or meropenem MICs should be determined for those isolates with oxacillin zone diameters of $\leq 19~mm$, because zones of $\leq 19~mm$ occur with penicillin-resistant, -intermediate, or certain -susceptible strains. For isolates with oxacillin zones $\leq 19~mm$, do not report penicillin as resistant without performing a penicillin MIC test.
Penicillin parenteral (nonmeningitis)	-	-	-	-	MIC Interpretive Criteria (µg/mL)
(optional)					S I R ≤ 2 4 ≥ 8 Doses of intravenous penicillin of at least 2 million units every 4 hours in adults with normal renal function (12 million units per day) can be used to treat nonmeningeal pneumococcal infections due to strains with penicillin MICs ≤ 2 µg/mL. Strains with an intermediate MIC of 4 µg/mL may require penicillin doses of 18 to 24 million units per day.
CEPHEMS		_	1	1	
Ceftriaxone (nonmeningitis)	-	-	-	-	MIC Interpretive Criteria $\frac{(\mu g/mL)}{S}$ S I R ≤ 1 2 ≥ 4
TETRACYCLINES					
Doxycycline	35 μg	≥ 28	25-27	≤ 24	Organimes that are susceptible to tetracycline are also considered susceptible to doxycycline. However, resistance to doxycycline cannot be inferred from tetracycline resistance.



Streptococcus pneumoniae (continued)								
MACROLIDES								
Erythromycin	15 μg	≥21	16-20	≤ 15	(a) Susceptibility and resistance to azithromycin, clarithromycin, and dirithromycin can be predicted by testing erythromycin.			
					(b) Not routinely reported on organisms isolated from the urinary tract.			
FLUOROQUINOLONES								
Levofloxacin	5 μg	≥ 17	14-16	≤ 13				
FOLATE PATHWAY INH	IBITORS							
Trimethoprim-	1.25/ 23.75	≥ 19	16-18	≤ 15				
sulfamethoxazole	μg							
LINCOSAMIDES								
Clindamycin	2 μg	≥ 19	16-18	≤ 15	Inducible clindamycin resistance can be detected by disk diffusion using the D-zone test or by broth microdilution.15µg erythromycin and 2µg clindamycin disks spaced 15–26 mm apart. See Table 3G.			