Table 2B-5. MIC Breakpoints for Other Non-Enterobacterales (Refer to General Comment [2])

Testing Conditions

Medium: Broth dilution: CAMHB

Agar dilution: MHA

Inoculum: Broth culture method or colony suspension, equivalent to a

0.5 McFarland standard

Incubation: 35°C±2°C; ambient air; 16-20 hours

Routine QC Recommendations (see Table 5A-1 for acceptable QC ranges)

Table 2B-5 Other Non-Enterobacterales **M07**

Escherichia coli ATCC®a 25922 (for chloramphenicol, tetracyclines, sulfonamides, and trimethoprim-sulfamethoxazole) Pseudomonas aeruginosa ATCC® 27853

Refer to Tables 4A-2 and 5A-2 to select strains for routine QC of B-lactam combination agents.

When a commercial test system is used for susceptibility testing, refer to the manufacturer's instructions for QC test recommendations and QC ranges.

General Comments

- (1) Refer to Table 1G for antimicrobial agents that should be considered for testing and reporting by microbiology laboratories.
- (2) Other non-Enterobacterales include *Pseudomonas* spp. and other nonfastidious, glucose-nonfermenting, gram-negative bacilli but exclude *P. aeruginosa*, Acinetobacter spp., Burkholderia cepacia complex, and Stenotrophomonas maltophilia (refer to Tables 2B-2, 2B-3, and 2B-4, respectively). Recommendations for testing and reporting Aeromonas spp. (includes members of A. caviae complex, A. hydrophila complex, and A. veronii complex), Burkholderia mallei, Burkholderia pseudomallei, and Vibrio spp. (including V. cholerae) are found in CLSI document M45.1
- (3) For other non-Enterobacterales, the disk diffusion method has not been systematically studied. Therefore, for this organism group, disk diffusion testing is not recommended.

NOTE: Information in black boldface type is new or modified since the previous edition.

For Use With M02 and M07

Table 2B-5. Other N	Disk Content	Interpreti	ive Categ	Interp	oretive Cat		s and MIC		
Antimicrobial Agent		Zone Diameter Breakpoints, nearest whole mm			Breakpoints, μg/mL				
		S		R	S			R	Comments
PENICILLINS									
Piperacillin*	-	-	-	-	≤16	32-6	4	≥128	
β-LACTAM COMBINATION	AGENTS								
									bination agent. However, organisms that test susceptible to
					B-lactam	agent alon	e. Simi	larly, organis	ms that test intermediate or resistant to the β-lactam
agent alone may be suscep	tible to the f	3-lactam comb	ination a	gent.		20///			
Piperacillin-tazobactam	-	-	-		≤16/4	32/4-6	i	≥128/4	
Ticarcillin-clavulanate*	-	-	-	-		32/2-6	4/2	≥128/2	
CEPHEMS (PARENTERAL) (Including ce	phalosporins I	, II, III, aı	nd IV. Please	refer to G				
Ceftazidime	-	-	-	-	≤8	16		≥32	
Cefepime	-	-	-	-	≤8	16		≥32	
Cefotaxime	-	-	-	-	≤8	16-3	2	≥64	
Ceftriaxone	-	-	-	-	≤8	16-3	2	≥64	
Cefoperazone*	-	-	-	-	≤16	32		≥64	
Ceftizoxime*	-	-	-	-	≤8	16-3	2	≥64	
Moxalactam*	-	-	-	-	≤8	16-3	2	≥64	
MONOBACTAMS									
Aztreonam	-	-	-	-	≤8	16		≥32	
CARBAPENEMS					<u> </u>				
Imipenem	-	-	-	-	≤4	8		≥16	
Meropenem	-	-	-	-	≤4	8		≥16	
AMINOGLYCOSIDES									
Gentamicin	-	-	-	-	≤4	8	-	≥16	
Tobramycin	-	-	-	-	≤4	8		≥16	
Amikacin	-	-	-	-	≤16	32		≥64	
Netilmicin*	-	-	-	-	≤8	16		≥32	
TETRACYCLINES				·					
	eptible to te	tracycline are	also cons	sidered susce	otible to d	oxycycline	and mi	inocycline. H	owever, some organisms that are intermediate or resistant
to tetracycline may be suso						, .,		,	,
Tetracycline (U) ^b	-	-	-	-	≤4	8	- 1	≥16	
Doxycycline*	-	-	-	-	≤4	8		≥16	
Minocycline	-	-	-	-	<u>≤4</u>	8	- 1	≥16	

Table 2B-5 **Other Non-Enterobacterales** M07

Table 2B-5. Other Non-Enterobacterales (Continued)

Antimicrobial Agent	Disk	Interpretive Categories and Zone Diameter Breakpoints, nearest whole mm				ive Categor Breakpoint µg/mL		
	Content	S	1	R	S		R	Comments
FLUOROQUINOLONES								
Ciprofloxacin	-	-	-	-	≤1	2	≥4	
Levofloxacin	-	-		i	≤2	4	≥8	
Gatifloxacin*	-	-	-	-	≤2	4	≥8	
Lomefloxacin*	-	-	-	-	≤2	4	≥8	
Norfloxacin* (U) ^b	-	-	-	-	≤4	8	≥16	
Ofloxacin*	-	-	-	-	≤2	4	≥8	
FOLATE PATHWAY ANTAGO	ONISTS							
Trimethoprim- sulfamethoxazole	-	-	-	-	≤2/38	-	≥4/76	
Sulfonamides (U) ^b	-	-	-	-	≤256	-	≥512	(6) Sulfisoxazole can be used to represent any of the currently available sulfonamide preparations.
PHENICOLS								
Chloramphenicol*	-	-	_	-	≤8	16	≥32	(7) Not routinely reported on organisms isolated from the urinary tract.

Abbreviations: ATCC®, American Type Culture Collection; CAMHB, cation-adjusted Mueller-Hinton broth; I, intermediate; MHA, Mueller-Hinton agar; MIC, minimal inhibitory concentration; QC, quality control; R, resistant; S, susceptible, U, urine.

Symbol: *, designation for "Other" agents that are not included in Tables 1 but have established clinical breakpoints.

Footnotes

- a. ATCC® is a registered trademark of the American Type Culture Collection.
- b. Report only on organisms isolated from the urinary tract.

Reference for Table 2B-5

CLSI. Methods for Antimicrobial Dilution and Disk Susceptibility Testing of Infrequently Isolated or Fastidious Bacteria. 3rd ed. CLSI guideline M45. Clinical and Laboratory Standards Institute; 2016.