

# 檢驗科自 108 年 11 月 1 日起 修正抗生素藥物敏感性試驗判讀標準

主旨：檢驗科自 108 年 11 月 1 日起，修正抗生素藥物敏感性試驗判讀標準，詳如說明，請查照。

說明：

- 一、為符合最新版美國臨床實驗室標準（Clinical and Laboratory Standards Institute Performance Standards for Antimicrobial Susceptibility Testing, CLSI M100 29 th）（如附件一），擬變更 *Pseudomonas aeruginosa* 之 Ciprofloxacin 與 Levofloxacin 判讀標準。
- 二、判讀標準異動如附件二。
- 三、若有任何問題，請與檢驗科洪曉音總技師聯絡，分機：1244。

附件一

Table 2B-1. *Pseudomonas aeruginosa* (Continued)

Test/Report Group	Antimicrobial Agent	Disk Content	Interpretive Categories and Zone Diameter Breakpoints, nearest whole mm			Interpretive Categories and MIC Breakpoints, µg/mL			Comments
			S	I	R	S	I	R	
<b>CARBAPENEMS</b>									
B	Doripenem	10 µg	≥ 19	16–18	≤ 15	≤ 2	4	≥ 8	(15) Breakpoints for doripenem are based on a dosage regimen of 500 mg administered every 8 h.
B	Imipenem	10 µg	≥ 19	16–18	≤ 15	≤ 2	4	≥ 8	(16) Breakpoints for imipenem are based on a dosage regimen of 1 g administered every 8 h or 500 mg administered every 6 h.
B	Meropenem	10 µg	≥ 19	16–18	≤ 15	≤ 2	4	≥ 8	(17) Breakpoints for meropenem are based on a dosage regimen of 1 g administered every 8 h.
<b>LIPOPEPTIDES</b>									
O	Colistin	–	–	–	–	≤ 2	–	≥ 4	(18) Colistin (methanesulfonate) should generally be administered with a loading dose and at the maximum recommended doses, in combination with other agents.  (19) The only approved MIC method for testing is broth microdilution. Disk diffusion and gradient diffusion methods should not be performed.
O	Polymyxin B	–	–	–	–	≤ 2	4	≥ 8	(20) The MICs obtained from testing colistin predict MICs for polymyxin B.
<b>AMINOGLYCOSIDES</b>									
A	Gentamicin	10 µg	≥ 15	13–14	≤ 12	≤ 4	8	≥ 16	
A	Tobramycin	10 µg	≥ 15	13–14	≤ 12	≤ 4	8	≥ 16	
B	Amikacin	30 µg	≥ 17	15–16	≤ 14	≤ 16	32	≥ 64	
O	Netilmicin	30 µg	≥ 15	13–14	≤ 12	≤ 8	16	≥ 32	
<b>FLUOROQUINOLONES</b>									
B	Ciprofloxacin	5 µg	≥ 25	19–24	≤ 18	≤ 0.5	1	≥ 2	(21) Breakpoints are based on a dosage regimen of 400 mg IV administered every 8 h.
B	Levofloxacin	5 µg	≥ 22	15–21	≤ 14	≤ 1	2	≥ 4	(22) Breakpoints are based on a dosage regimen of 750 mg administered every 24 h.
O	Lomefloxacin	10 µg	≥ 22	19–21	≤ 18	≤ 2	4	≥ 8	(23) For testing and reporting of urinary tract isolates only.
O	Ofloxacin	5 µg	≥ 16	13–15	≤ 12	≤ 2	4	≥ 8	
O	Gatifloxacin	5 µg	≥ 18	15–17	≤ 14	≤ 2	4	≥ 8	

Abbreviations: ATCC<sup>®</sup> American Type Culture Collection; CAMHR, cation-adjusted Mueller-Hinton broth; I, intermediate; MHA, Mueller-Hinton agar; MIC, minimal

附件二

Organism	Antibiotic	Disc Diffusion						MIC					
		Old breakpoints			New breakpoints			Old breakpoints			New breakpoints		
		S	I	R	S	I	R	S	I	R	S	I	R
<i>Pseudomonas aeruginosa</i>	CIP	21	16-20	15	25	19-24	18	1	2	4	0.5	1	2
	LVX	-	-	-	-	-	-	2	4	8	1	2	4