

# Antimicrobial Susceptibility Test Results for Gram-negative isolates recovered from adult and paediatric clinical specimens: 2021

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≥ 90% susceptible; 
  70-89% susceptible; 
  < 70% susceptible; 
 Number = proportion susceptible (S/I); R = Resistant

Classification Number: LPMICCOMIN008 Date of issue: May 2022	Amoxicillin	Amoxicillin-clavulanate	Cephalexin <sup>c</sup>	Cefuroxime	Ceftriaxone	Ceftazidime	Piperacillin-tazobactam	Aztreonam	Meropenem	Gentamicin	Amikacin	Trimethoprim <sup>c</sup>	Cotrimoxazole	Ciprofloxacin	Norfloxacin <sup>c</sup>	Nitrofurantoin <sup>c</sup>
Organism (number tested)																
<i>Escherichia coli</i> – all (3646)	41	72	74	82	90	90	91	90	100	89	100	66	68	79	75	100
ESBL <i>Escherichia coli</i> (316) <sup>a</sup>	R	-	R	R	R	R	-	R	100	51	99	24	25	18	8	99
<i>Klebsiella pneumoniae</i> – all (696)	R	84	85	86	90	89	89	89	100	91	100	78	82	86	81	74
ESBL <i>Klebsiella pneumoniae</i> (45)	R	-	R	R	R	R	-	R	100	38	98	4	16	24	18	47
<i>Klebsiella (Enterobacter) aerogenes</i> (113)	R	R	R	R	71 <sup>b</sup>	72 <sup>b</sup>	73	77	100	100	100	99	99	99	98	84
<i>Klebsiella oxytoca</i> (181)	R	86	84	85	92	97	86	91	100	97	100	92	93	98	94	97
<i>Proteus mirabilis</i> (343)	74	88	97	99	99	99	99	99	100	91	99	77	80	96	96	R
<i>Proteus vulgaris</i> (18)	R	67	R	R	100 <sup>b</sup>	94 <sup>b</sup>	100	89	100	100	100	72	78	100	100	R
<i>Enterobacter cloacae</i> complex (263)	R	R	R	R	70 <sup>b</sup>	72 <sup>b</sup>	69	72	100	98	100	86	86	97	94	95
<i>Serratia marcescens</i> (202)	R	R	R	R	97 <sup>b</sup>	98 <sup>b</sup>	99	98	100	97	99	96	98	95	93	R
<i>Morganella morganii</i> (108)	R	R	R	R	87 <sup>b</sup>	79 <sup>b</sup>	93	87	100	90	100	89	90	85	85	0
<i>Citrobacter koseri</i> (125)	0	96	96	75	100	100	98	100	100	98	99	96	96	98	95	98
<i>Citrobacter freundii</i> (42)	R	R	R	R	69 <sup>b</sup>	71 <sup>b</sup>	76	71	100	88	100	88	90	98	98	100
<i>Pseudomonas aeruginosa</i> (776)	R	R	R	R	R	86	93	87	96	-	95	R	R	87	-	R
<i>Stenotrophomonas maltophilia</i> (70)	R	R	R	R	R	-	R	R	R	R	R	-	99	-	-	-
<i>Acinetobacter</i> spp. (43)	R	R	R	R	-	95	98	-	98	98	98	-	91	98	-	-
<i>Haemophilus influenzae</i> (233) <sup>d</sup>	62	67	-	-	93	-	100	-	-	-	-	-	76	-	-	-

<sup>a</sup> 95% and 88% of ESBL *E. coli* susceptible to fosfomycin and mecillinam respectively

<sup>b</sup> *E. cloacae*, *K. aerogenes*, *S. marcescens*, *M. morganii*, *C. freundii* and *P. vulgaris* may develop resistance during prolonged treatment with third generation cephalosporins

<sup>c</sup> Cephalexin, nitrofurantoin, trimethoprim, and norfloxacin susceptibility results apply to uncomplicated lower urinary tract infection only

<sup>d</sup> 100% of *H. influenzae* isolates were susceptible to tetracycline/doxycycline.

See [http://www.surv.esr.cri.nz/antimicrobial/neisseria\\_meningitidis.php](http://www.surv.esr.cri.nz/antimicrobial/neisseria_meningitidis.php) for information on antimicrobial susceptibility among *Neisseria meningitidis* isolates.

