

Antimicrobial Susceptibility Report: Auckland and Northland community isolates 2023

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

Table 1. Gram negative isolates

Organism (number tested)	Amoxicillin	Amoxicillin-clavulanate	Cephalexin ^a	Ceftriaxone	Ceftazidime	Piperacillin-tazobactam	Ertapenem	Meropenem	Gentamicin	Amikacin	Trimethoprim ^a	Ciprofloxacin	Nitrofurantoin ^a	Fosfomycin	Mecillinam	Cotrimoxazole	Doxycycline
<i>Escherichia coli</i> – urine (30,655)	52	87	92	-	-	-	-	-	74	100	75	87	99	-	-	-	-
ESBL <i>Escherichia coli</i> – urine (2,121)	R	-	R	-	-	-	99	100	63	99	36	39	97	97	87	-	-
<i>Klebsiella</i> species – urine (2,940)	R	93	93	-	-	-	-	-	84	98	86	92	86	-	-	-	-
ESBL <i>Klebsiella</i> species – urine (148)	R	-	R	-	-	-	99	100	65	100	16	29	74	-	76	-	-
<i>Enterobacter</i> , <i>Citrobacter freundii</i> , <i>Hafnia alvei</i> , <i>Klebsiella aerogenes</i> (986)	R	R	R	-	-	-	-	99	99	100	90	98	74	-	-	99	-
<i>Proteus</i> , <i>Morganella</i> , <i>Providencia</i> (1,735)	68	81	79	97	-	-	-	-	92	-	77	95	R ^b	-	-	-	-
<i>Pseudomonas aeruginosa</i> (1,321)	R	R	R	R	85	99	R	-	-	99	R	92	R	R	R	R	R
<i>Haemophilus influenzae</i> (686)	62	76	-	-	-	-	-	-	-	-	-	-	-	-	-	68	99
<i>Salmonella</i> Typhi/ Paratyphi A - Stool/ Blood Culture (16)	-	-	-	88	-	-	-	100	-	-	-	6	-	-	-	81	-
<i>Shigella</i> species - Stool (62) ^c	R	-	-	50	-	-	-	-	-	-	-	53	-	-	-	29	-

^a Cephalexin, nitrofurantoin, trimethoprim, susceptibility results apply to uncomplicated lower urinary tract infection only.

^b *Proteus*, *Providencia*, *Morganella* species are intrinsically resistant to nitrofurantoin

^c *Shigella* species: of those tested for azithromycin susceptibility, 39% were extensively-drug resistant with high-level resistance to azithromycin

Table 2. Gram positive isolates

Organism (number tested)	Penicillin	Amoxicillin	Flucloxacillin	Erythromycin	Clindamycin	Cotrimoxazole	Doxycycline	Fusidic acid	Mupirocin	Rifampicin ^c	Nitrofurantoin ^a	Ciprofloxacin ^a	Moxifloxacin
<i>Staphylococcus aureus</i> - all (22,900)	-	-	87	89	91	99	98	90	97	-	-	-	-
Methicillin-resistant <i>Staphylococcus aureus</i> (3,352)	-	-	R	81	89	98	96	70	99	100	-	-	-
<i>Streptococcus pyogenes</i> (499)	100	-	-	96	96	96	87	-	-	-	-	-	-
<i>Streptococcus pneumoniae</i> (75)	-	82	-	71	-	63	76	-	-	-	-	-	100
<i>Enterococcus</i> species (3,976)	-	99	-	-	-	-	-	-	-	-	99 ^a	96 ^a	-

^a Nitrofurantoin and ciprofloxacin susceptibility results apply to uncomplicated lower urinary tract infection only.

^b *S. aureus* flucloxacillin result predicts susceptibility to amoxicillin-clavulanate and cephalexin

^c Rifampicin used only in combination therapy for *S. aureus* treatment/ decolonisation