

Antimicrobial Susceptibility Report: Tairāwhiti isolates 1 Jan – 31 Dec 2022

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

Gram negative isolates

Organism (number tested)	Amoxicillin	Amoxi-clav (uncomplicated UTI)	Amoxi-clav (other)	Cephalexin (uncomplicated UTI)	Cefuroxime	Ceftriaxone	Ceftazidime	Piperacillin-tazobactam	Meropenem	Gentamicin	Tobramycin	Trimethoprim (uncomplicated UTI)	Cotrimoxazole	Ciprofloxacin	Nitrofurantoin (uncomplicated UTI)
<i>Escherichia coli</i> – urinary isolates (1656)	-	88% ^a	50%	96% ^a	-	-	-	-	-	-	-	72% ^a	-	91%	99% ^a
<i>Escherichia coli</i> – blood culture isolates (52)	-	-	41%	-	94%	94%	-	94%	100%	96%	96%	-	56%	96%	-
ESBL <i>Escherichia coli</i> (42) ^d	R	-	-	R	R	R	R	-	100%	67%	67%	48% ^a	50%	31%	98% ^a
<i>Klebsiella pneumoniae</i> – urinary isolates (89)	R	93% ^a	73%	98% ^a	-	-	-	-	-	-	-	84% ^a	-	94%	-
<i>Proteus mirabilis</i> – urinary isolates (113)	-	100% ^a	96%	97% ^a	-	-	-	-	-	-	-	81% ^a	-	99%	R
<i>E. cloacae</i> , <i>K. aerogenes</i> , <i>C. freundii</i> , <i>S. marcescens</i> & <i>M. Morganii</i> (105)	R	R	R	R	R	81% ^b	81% ^b	78%	100%	99%	91%	88% ^a	94%	92%	- ^e
<i>Pseudomonas aeruginosa</i> (736)	R	R	R	R	R	R	94%	95%	100%	-	97%	R	R	92%	R
<i>Haemophilus influenzae</i> (69) ^c	68%	-	72%	-	-	100%	-	-	-	-	-	-	78%	-	-

^a Susceptibility results apply to uncomplicated lower urinary tract infection only; ^b*E. cloacae*, *K. aerogenes*, *S. marcescens*, *M. morganii*, and *C. freundii* may develop resistance during prolonged treatment with third generation cephalosporins. ^c 100% *Haemophilus influenzae* were susceptible to tetracycline/doxycycline; ^d 95% and 95% of isolates susceptible (uncomplicated UTI) to Fosfomycin and Mecillinam respectively; ^e *Serratia* and *Morganella* species intrinsically resistant to nitrofurantoin.

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Gram positive isolates

Organism (number tested)	Penicillin	Amoxicillin	Flucloxacillin ^a	Ceftriaxone	Erythromycin	Clindamycin	Cotrimoxazole	Doxycycline	Fusidic acid	Vancomycin	Nitrofurantoin (uncomplicated UTI)	Ciprofloxacin (uncomplicated UTI)
<i>Staphylococcus aureus</i> – all (465)	-	-	91% ^a	-	88%	90%	100%	98%	90%	100%	-	-
Methicillin-resistant <i>Staphylococcus aureus</i> (63)	R	R	R ^a	R	71%	83%	100%	95%	68%	100%	-	-
<i>Staphylococcus saprophyticus</i> (51)	-	-	100% ^a	-	-	-	94%	-	-	100%	100% ^c	100% ^c
Other Coagulase Negative Staphylococci (98)	-	-	60% ^a	-	64%	78%	73%	85%	-	100%	-	-
<i>Streptococcus pyogenes</i> & other β-haem Strep	100%	-	-	-	-	-	-	-	-	100%	-	-
<i>Streptococcus pneumoniae</i> (35)	-	91%	-	100%	97%	-	58%	90%	-	100%	-	-
<i>Enterococcus</i> species (117) ^b	-	96%	R	R	R	R	R	R	-	100%	99% ^c	96% ^c

^a *Staphylococcus* flucloxacillin result predicts susceptibility to amoxicillin-clavulanate, cephalixin, cephalozin, and ceftriaxone. ^b Expect majority *E. faecalis* to be amoxicillin susceptible and majority *E. faecium* to be amoxicillin resistant; ^c Susceptibility results apply to uncomplicated lower urinary tract infection only.