

Antimicrobial Susceptibility Report: Tairāwhiti isolates 1 Jan – 31 Dec 2023

≥ 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 indications)	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 (1540)	-	87% ^a	50%	95% ^a	-	-	-	-	-	-	-	74% ^a	-	91%	99% ^a
<i>Escherichia coli</i> – other sites (67)	-		48%	-	80%	88%		88%	100%	96%	96%	-	78%	90%	-
ESBL <i>Escherichia coli</i> (33) ^d	R	-	-	R	R	R	R	-	100%	64%	58%	27% ^a	30%	15%	90% ^a
<i>Klebsiella pneumoniae</i> – urinary isolates (67)	R	92% ^a	68%	91%	-	-	-	-	-	-	-	82% ^a	-	88%	-
<i>Proteus mirabilis</i> – urinary isolates (133)	-	98% ^a	92%	92% ^a	-	-	-	-	-	-	-	74 ^a		99%	R
<i>E. cloacae</i> , <i>K. aerogenes</i> , <i>C. freundii</i> , <i>S. marcescens</i> & <i>M. Morganii</i> (104)	R	R	R	R	R	83% ^b	87% ^b	82%	100%	97%	91%	91% ^a	91%	93%	e
<i>Pseudomonas aeruginosa</i> (219)	R	R	R	R	R	R	95%	97%	100%	-	99%	R	R	95%	R
<i>Haemophilus influenzae</i> (42) ^c	71%	-	76%	-	-	100%	-	-	-	-	-	-	71%	-	-

^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 treatment with third generation cephalosporins. ^c 100% *Haemophilus influenzae* were susceptible to tetracycline/doxycycline; ^d 97% and 90% of isolates susceptible (uncomplicated UTI breakpoints) 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	Amoxycillin	Flucloxacillin ^a	Ceftriaxone	Erythromycin	Clindamycin	Cotrimoxazole	Doxycycline	Fusidic acid	Vancomycin	Nitrofurantoin (uncomplicated UTI)	Ciprofloxacin (uncomplicated UTI)
<i>Staphylococcus aureus</i> – all (1645)	-	-	93% ^a	-	88%	91%	96%	98%	91%	100%	-	-
Methicillin-resistant <i>Staphylococcus aureus</i> (120)	R	R	R ^a	R	70%	83%	98%	95%	69%	100%	-	-
<i>Staphylococcus lugdunensis</i> (37)	-	-	68%	-	95%	95%	100%	97%	-	100%	-	-
<i>Staphylococcus saprophyticus</i> (51)	-	-	95% ^a	-	-	-	93%	-	-	100%	100% ^c	100% ^c
Other Coagulase Negative Staphylococci (154)	-	-	52% ^a	-	50%	70%	70%	90%	-	100%	-	-
<i>Streptococcus pyogenes</i> & other β-haem Strep (27)	100%	-	-	-	-	-	-	-	-	100%	-	-
<i>Streptococcus pneumoniae</i> (34)	-	97%	-	100%	90%	-	67%	96%	-	100%	-	-
<i>Enterococcus</i> species (100) ^b	-	89% ^b	R	R	R	R	R	R	-	100%	98% ^c	86% ^c

^a *Staphylococcus* flucloxacillin result predicts susceptibility to amoxicillin-clavulanate, cephalexin, cephazolin, 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.