

Antimicrobial Susceptibility Test Results for Gram-positive isolates recovered from adult and paediatric clinical specimens: 2022

Department of Clinical Microbiology, Auckland City Hospital. Clinical Microbiologists can be contacted through Lablink on 09 3078995 or 0800 5227587



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

Organism (number tested)	Penicillin	Amoxicillin	Flucloxacillin	Erythromycin	Clindamycin	Cotrimoxazole	Doxycycline	Vancomycin	Fusidic acid	Mupirocin	Ceftriaxone	Moxifloxacin	Nitrofurantoin	Norfloxacin
Classification Number: LPMICCOMIN009 Date of issue: Feb 2023														
<i>Staphylococcus aureus</i> – all (3746)	14	-	82	87	89	99	97	100	87	99	-	-	-	-
Methicillin-resistant <i>Staphylococcus aureus</i> (484) ^a	R	-	R	77	85	100	96	100	68	99	-	-	-	-
<i>Staphylococcus epidermidis</i> (441)	-	-	37	49	67	67	60	100	50	84	-	-	-	-
<i>Staphylococcus lugdunensis</i> (56)	43	-	95	91	89	100	95	100	93	98	-	-	-	-
Other coagulase negative Staphylococci (302) ^b	-	-	40	52	63	74	68	100	75	90	-	-	-	-
<i>Streptococcus pyogenes</i> (441)	100	-	-	92	-	-	73	100	-	-	-	-	-	-
<i>Streptococcus dysgalactiae</i> (Group C/G) (253)	100	-	-	81	-	-	52	100	-	-	-	-	-	-
<i>Streptococcus agalactiae</i> (Group B) (142)	100	-	-	77	-	-	38	100	-	-	-	-	-	-
<i>Streptococcus pneumoniae</i> (49) ^c - non-meningitis criteria	See note ^d	-	-	94	-	52	94	100	-	-	100	100	-	-
<i>Streptococcus pneumoniae</i> (49) ^{c,e} - meningitis criteria	43	-	-	-	-	-	-	100	-	-	98	100	-	-
<i>Enterococcus faecalis</i> (561) ^f	-	100	R	R	R	R	R	100	-	-	R	R	100 ^f	92 ^f
<i>Enterococcus faecium</i> (117)	-	19	R	R	R	R	R	97	-	-	R	R	42 ^f	11 ^f

^a MRSA are also resistant to Amoxicillin-clavulanate, cephalosporins (excluding ceftaroline) and carbapenems.

^b Urinary infections with *S. saprophyticus* respond to concentrations achieved in the urine of antimicrobial agents commonly used to treat acute uncomplicated urinary tract infections (eg nitrofurantoin, trimethoprim-sulfamethoxazole).

^c *S. pneumoniae* isolates are from blood cultures and CSF only.

^d For non-meningitis *S. pneumoniae* isolates susceptibility is dose dependent; 92% susceptible at 1.2 g Q6H; 98% susceptible at 2.4 g Q6H or 1.2g Q4H; 100% susceptible at 2.4 g Q4H. Non-meningitis isolates are considered resistant when MIC > 2 mg/L. For non-meningitis isolates, a penicillin MIC of ≤0.06 mg/L can predict susceptibility to penicillin (oral or parenteral), and other β-lactam agents including amoxicillin, cefaclor (high dose), cefuroxime, ceftriaxone, and meropenem.

^e When meningitis is suspected, a penicillin MIC of ≤ 0.06 mg/L mg/L is considered susceptible.

^f Nitrofurantoin and norfloxacin only apply to lower urinary tract *Enterococcus* isolates.