



**ALBERTA PRECISION  
LABORATORIES**

Leaders in Laboratory Medicine

**Antibiotic % Susceptibility Patterns  
Peter Lougheed Hospital  
January - December 2022**

Data derived from routine susceptibility tests performed by Alberta Precision Laboratories

N	Penicillin (IV)	Ampicillin / Amoxicillin	Cloxacilin	Amoxicillin-Clavulanate	Piperacillin-Tazobactam	Cephalixin	Cefazolin	Cefixime	Ceftriaxone	Ceftazidime	Clindamycin	Trimethoprim-sulfamethoxazole	Vancomycin	Tetracycline <sup>e</sup>	Minoocycline	Doxycycline <sup>b</sup>	Nitrofurantoin <sup>b</sup>	Fosfomycin (PO) <sup>b</sup>	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Ertapenem	Meropenem	
<b>Gram-positive</b>																									
Enterococcus faecalis	129	100				R	R	R	R	R	R	R	100	27			100		91 <sup>b</sup>						
Enterococcus faecium	54	19				R	R	R	R	R	R	R	74	19			9		17 <sup>b</sup>						
Staphylococcus aureus	All	193		77		77	77				81	96	100	94											
	MSSA	150		100		100	100				83	96	100	95											
	MRSA	50		R		R	R				76	96	100	90											
Staphylococcus, coagulase-negative <sup>d</sup>	65		30			30	30				58	63	100	78											
Streptococcus anginosus group	62	100							98		81		100								98				
<b>Gram-negative</b>																									
Citrobacter freundii complex <sup>a,d</sup>	40		R		R	R	R					63							63		85	88	85	85	
Enterobacter cloacae complex <sup>a</sup>	51		R		R	R	R					92							88		96	96	98	100	
Escherichia coli	All	241		51		78	78	75 <sup>b</sup>	66	77	78		73				98		63		91	89			
	ESBL <sup>d</sup>	81		R				R	R	R	R		41			51	90	100	5		78	70	99	100	
Klebsiella oxytoca <sup>d</sup>	56		R		82	84	73 <sup>b</sup>	27	98	86		93							89		96	96			
Klebsiella pneumoniae complex	68		R		93	93	100 <sup>b</sup>	88	93	93		93					45		88		99	99			
Proteus mirabilis <sup>d</sup>	49		84		98	100	100 <sup>b</sup>	63	100	100		86		R	R	R	R		89		86	88			
Pseudomonas aeruginosa	78		R		R	92			R	R	92		R		R	R			87			97	R	87	
Stenotrophomonas maltophilia <sup>a,d</sup>	42		R		R	R				R	50		98		100					93	R	R	R	R	

<sup>a</sup> These organisms usually produce β-lactamase which can cause failure of 3rd generation cephalosporin therapy, despite in vitro susceptibility

<sup>b</sup> Urine isolates only

<sup>c</sup> Susceptibility to doxycycline can be inferred from susceptibility to tetracycline

<sup>d</sup> Combined data (January - December 2021 and January - December 2022) due to the small number of isolates in 2022

**Note:** Percent susceptible for each organism/antimicrobial combination was generated by including the first isolate of that organism recovered from a given patient during the time period analyzed.

**Abbreviations:** MSSA - methicillin-susceptible Staphylococcus aureus; MRSA - methicillin-resistant Staphylococcus aureus; ESBL - extended spectrum beta-lactamase; R - intrinsic resistance