



ALBERTA PRECISION LABORATORIES

Leaders in Laboratory Medicine

Antibiotic % Susceptibility Patterns

Long-Term Care - Calgary

January - December 2022

Data derived from routine susceptibility tests performed by Alberta Precision Laboratories

N		Ampicillin / Amoxicillin	Cloxacillin	Amoxicillin-Clavulanate	Piperacillin-Tazobactam	Cephalexin	Cefazolin	Cefixime	Ceftriaxone	Ceftazidime	Clindamycin	Trimethoprim-sulfamethoxazole	Vancomycin	Tetracycline ^c	Doxycycline ^b	Nitrofurantoin ^b	Fosfomycin (PO) ^b	Ciprofloxacin	Gentamicin	Tobramycin	Ertapenem	Meropenem
Gram-positive																						
Enterococcus faecalis		436	100			R	R	R	R	R	R	R	100	27		99		84 ^b				
Enterococcus faecium		40	23			R	R	R	R	R	R	R	83	38		15		20 ^b				
Staphylococcus aureus	All	217		83		83	83				86	93	100	99								
	MSSA	182		100		100	100				87	94	100	99								
	MRSA	38		R		R	R				79	89	100	95								
Gram-negative																						
Citrobacter freundii complex ^a		39	R		R	R	R					95				90		82	95	95	100	100
Citrobacter koseri		30	R		97	97	100	100	97			100						97	100	100		
Enterobacter cloacae complex ^a		63	R		R	R	R					78				37		83	98	97	98	100
Escherichia coli	All	1058	55		82	85	80 ^b	76	82	85		77				98		61	91	91		
	ESBL	148	R			R	R	R	R	R		49			47	97	98	5	72	73	100	100
Klebsiella (Enterobacter) aerogenes ^{a,d}		46	R		R	R	R					100				17		93	100	100	98	98
Klebsiella oxytoca		63	R		92	92	87 ^b	62	95	92		89				92		90	94	95		
Klebsiella pneumoniae complex		314	R		95	97	97 ^b	96	97	97		94				39		89	99	100		
Morganella morganii ^a		37	R		R	R	R					68				R		59	86	89	100	100
Proteus mirabilis		300	77		98	99	97 ^b	75	99	99		69		R	R	R		68	95	97		
Providencia species		31	R		R	R	R					87		R	R	R		81			94	100
Pseudomonas aeruginosa		133	R		R	99			R	R	99	R		R	R	R		83		99	R	90

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

^b Urine isolates only

^c Susceptibility to doxycycline can be inferred from susceptibility to tetracycline

^d 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