



**ALBERTA PRECISION
LABORATORIES**

Leaders in Laboratory Medicine

**Antibiotic % Susceptibility Patterns
North Sector
January - December 2022**

Data derived from routine susceptibility tests performed by Grande Prairie Regional Hospital

N	Penicillin (IV)	Ampicillin / Amoxicillin	Cloxacillin	Amoxicillin-Clavulanate	Piperacillin-Tazobactam	Cephalixin	Cefazolin	Ceftriaxone	Cefazidime	Clindamycin	Trimethoprim-Sulfamethoxazole	Vancomycin	Tetracycline ^c	Nitrofurantoin ^b	Ciprofloxacin	Gentamicin	Tobramycin	Ertapenem	Mercopenem
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Gram-positive																			
Enterococcus faecalis	663	100				R	R	R	R	R	R	100	23 ^b	99	86 ^b				
Enterococcus faecium	52	29				R	R	R	R			81	42 ^b	21	38 ^b				
Staphylococcus aureus	All	843	74				74			89	95	100	98						
	MSSA	626	100				100			88	94	100	97						
	MRSA	225	R			R	R			89	98	100	98						
Staphylococcus, coagulase-negative	63		55				55			83	81	100	90						
Staphylococcus lugdunensis	73									81	100	100	95						
Streptococcus, group A	54	100					100	100		70									
Streptococcus, group B	53	100					100	100		50									

Gram-negative																				
Citrobacter freundii complex ^a	44		R	R		R	R					80			98	82	91	95	100	100
Enterobacter cloacae complex ^a	87		R	R		R	R					97			36	89	98	98	99	100
Escherichia coli	All	2089	56	73	97	94 ^b		95				86			98	80	95	95		
	ESBL	55	R	R	R	R	R	R				53			89	7	60	53	100	100
Klebsiella oxytoca	77		R	91	95			94				92			87	95	96	96		
Klebsiella pneumoniae complex	231		R	94	98	93 ^b		95				93			27	90	98	97		
Morganella morganii ^a	38		R	R		R	R					92		R	R	84	100	97	100	100
Proteus mirabilis	137		69	96	100	98 ^b		99				90		R	R	91	75	94		
Pseudomonas aeruginosa	170			R	91			R	93			R		R		85	98	R	96	

^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

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