



ALBERTA PRECISION LABORATORIES

Leaders in Laboratory Medicine

Antibiotic % Susceptibility Patterns South Sector (East) January - December 2022

Data derived from routine susceptibility tests performed by Medicine Hat Regional Hospital

N	Penicillin (IV)	Ampicillin / Amoxicillin	Cloxacillin	Amoxicillin-Clavulanate	Piperacillin-Tazobactam	Cephalexin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Trimethoprim-Sulfamethoxazole	Vancomycin	Tetracycline ^c	Nitrofurantoin ^b	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Ertapenem	Meropenem
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Gram-positive

Enterococcus faecalis	411		100			R	R	R	R	R	R	100	27 ^a	99	82 ^a					
Staphylococcus aureus	All	727		84		84	84			82	94	100	94							
	MSSA	608		100		100	100			85	94	100	95							
	MRSA	119		R		R	R			66	91	100	90							
Staphylococcus lugdunensis	121		95			95	95			88	98	100	96							
Streptococcus, group A	39	100					100	100		90		100								
Streptococcus, group B	79	100					100	100		50		100								

Gram-negative

Citrobacter freundii complex ^a	57		R		R		R				89			98	89		95	95	98	98
Klebsiella (Enterobacter) aerogenes ^a	32		R		R		R				97			12	94		100	100	88	100
Enterobacter cloacae complex ^a	93		R		R		R				96			40	97		98	98	90	98
Escherichia coli	2232		66		88	93	93 ^b		93		84			99	78		94	95		
Klebsiella oxytoca	90		R		93	98	95 ^b		97		98			99	98		99	99		
Klebsiella pneumoniae complex	346		R		98	99	98 ^b		99		95			48	94		99	99		
Proteus mirabilis	94		74		94	100	100 ^b		100		80		R	R	93		94	98		
Pseudomonas aeruginosa	147		R		R	97			R	95		R		R	86			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

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; R - intrinsic resistance