



**ALBERTA PRECISION
LABORATORIES**
Leaders in Laboratory Medicine

Antibiotic % Susceptibility Patterns: South Sector (East) - 2021

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

	n	Penicillin	Ampicillin/ Amoxicillin	Cloxacillin	Amoxicillin- Clavulanate	Piperacillin- Tazobactam	Cephalexin (Urine) ^u	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Trimethoprim- sulfamethoxazole	Vancomycin	Tetracycline	Nitrofurantoin (Urine) ^u	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Ertapenem	Meropenem	
GP	<i>Enterococcus faecalis</i>	375	100				R	R	R	R	R	R	100	20 ^u	99	77 ^u						
	<i>Enterococcus faecium</i>	34	17				R	R	R	R	R	R	91	56 ^u	41	6 ^u						
	<i>Staphylococcus aureus</i>	All	709		81				81			80	96	100	94							
		MSSA	577		100				100			86	96	100	95							
		MRSA	132		R				R			54	96	100	91							
	<i>Staphylococcus lugdunensis</i>	116		95				95			86	98	100	97								
	Group A <i>Streptococcus</i> ♦	79	100						100		90		100									
	Group B <i>Streptococcus</i>	101	100						100		51		100									
Group G <i>Streptococcus</i>	34	100						100		74		100										
GN	<i>Citrobacter freundii</i> complex*	47	R		R		R	R				87			89	85		89	96	100	100	
	<i>Klebsiella (Enterobacter) aerogenes</i> *	30	R		R		R	R				100			27	97		100	100	90	100	
	<i>Enterobacter cloacae</i> complex*	82	R		R		R	R				96			36	94		99	98	88	100	
	<i>Escherichia coli</i>	2067		66	88	94	94	44	94			84			98	75		94	95			
	<i>Klebsiella oxytoca</i>	102		R	95	95	92		94			98			92	97		100	100			
	<i>Klebsiella pneumoniae</i>	343		R	96	97	96	68	97			92			34	90		97	97			
	<i>Proteus mirabilis</i>	93		86	95	100	97	57	100			87		R	R	90		97	99			
	<i>Pseudomonas aeruginosa</i>	147		R		R	99			R	99			R		86				100	R	94

R denotes that this species is inherently resistant to the antibiotic.

*These organisms can develop resistance to third-generation cephalosporins and piperacillin-tazobactam. Use of these agents is not recommended.

♦ Susceptibility testing not routinely performed. Results based on all GAS isolated where susceptibility testing was indicated for treatment purposes.

^u Data for this antimicrobial is only applicable to uncomplicated lower urinary tract infections.

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

Only those species with at least 30 isolates are included in the antibiograms.

ABBREVIATIONS: GP - Gram-positive; GN - Gram-negative; MSSA - methicillin-susceptible *Staphylococcus aureus*; MRSA - methicillin-resistant *Staphylococcus aureus*; R - intrinsic resistance