



**ALBERTA PRECISION
LABORATORIES**

Leaders in Laboratory Medicine

Antibiotic % Susceptibility Patterns: South Sector (East) - 2020

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>	328		99				R	R	R	R	R	R	99	20 ^u	98	71 ^u							
	<i>Enterococcus faecium</i>	49		8				R	R	R	R	R	R	69	33 ^u	12	6 ^u							
	<i>Staphylococcus aureus</i>	All	710			80			80				80	95	100	94								
		MSSA	569			100			100				85	95	100	95								
		MRSA	141			R			R				59	96	100	90								
	<i>Staphylococcus lugdunensis</i>	86			92				92			90	100	100	98									
	Group A <i>Streptococcus</i> ♦	102	100							100			89		100									
Group B <i>Streptococcus</i>	118	100							100			47		100										
GN	<i>Citrobacter freundii</i> complex*	51		R		R		R	R				90			98	84		96	100	100	100		
	<i>Enterobacter cloacae</i> complex*	90		R		R		R	R				97			28	94		99	99	89	100		
	<i>Escherichia coli</i>	2075		62		86	97	93	90	94			81			98	74		93	94				
	<i>Klebsiella oxytoca</i>	65		R		94	97	85	70	95			92			88	95		97	97				
	<i>Klebsiella pneumoniae</i>	323		R		94	96	96	93	96			94			37	89		97	97				
	<i>Proteus mirabilis</i>	90		81		94	98	100	83	99			78		R	R	94		98	98				
	<i>Pseudomonas aeruginosa</i>	130		R		R	98			R	96		R		R		83				100	R	83	

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-susceptable *Staphylococcus aureus*; MRSA - methicillin-resistant *Staphylococcus aureus*; R - intrinsic resistance