



**ALBERTA PRECISION  
LABORATORIES**

Leaders in Laboratory Medicine

**Antibiotic % Susceptibility Patterns: South Sector (East) - 2019**

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

	n	Penicillin	Ampicillin/ Amoxicillin	Cloxacillin	Amoxicillin- Clavulanate	Piperacillin- Tazobactam	Cephalexin (Urine) <sup>u</sup>	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Trimethoprim- sulfamethoxazole	Vancomycin	Tetracycline	Nitrofurantoin (Urine) <sup>u</sup>	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Ertapenem	Meropenem		
GP	<i>Enterococcus faecalis</i>	373	99				R	R	R	R	R	R	100	18 <sup>u</sup>	100	75 <sup>u</sup>							
	<i>Enterococcus faecium</i>	49	27				R	R	R	R	R	R	64	57 <sup>u</sup>	33	12 <sup>u</sup>							
	<i>Staphylococcus aureus</i>	All	717		80				81			73	96	100	97								
		MSSA	580		99				100			79	96	100	97								
		MRSA	137		R				R			48	96	100	96								
	<i>Staphylococcus coag neg</i>	32		59				59			75	81	100	90									
	<i>Staphylococcus lugdunensis</i>	105		86				86			80	99	100	99									
	Group A <i>Streptococcus</i> ♦	106	100						100		88		100										
	Group B <i>Streptococcus</i>	84	100						100		37		100										
	Group G <i>Streptococcus</i>	30	100						100		70		100										
GN	<i>Citrobacter freundii</i> complex*	60	R		R		R	R				88			95	92		95	98	98	100		
	<i>Enterobacter cloacae</i> complex*	80	R		R		R	R				92			31	99		100	100	95	100		
	<i>Escherichia coli</i>	2337	61		86	97	92	87	93			81			98	76		92	93				
	<i>Klebsiella oxytoca</i>	68	R		90	93	83	66	90			94			88	94		97	96				
	<i>Klebsiella pneumoniae</i>	359	R		97	97	97	95	97			92			35	92		98	97				
	<i>Proteus mirabilis</i>	110	85		99	100	99	83	99			76		R	R	94		99	99				
	<i>Pseudomonas aeruginosa</i>	124	R		R	97			R	96		R		R		89				99	R	91	

\*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.

<sup>u</sup> 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; R - intrinsic resistance;

MSSA - methicillin-susceptible *Staphylococcus aureus*; MRSA - methicillin-resistant *Staphylococcus aureus*