



**ALBERTA PRECISION  
LABORATORIES**

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**Antibiotic % Susceptibility Patterns: Central Zone - 2020**

Data derived from routine susceptibility tests performed by Red Deer Regional Hospital and St.Mary's Hospital Camrose

	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>	Fosfomycin (Urine) <sup>u</sup>	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Ertapenem	Meropenem
GP	<i>Enterococcus faecalis</i>	1407	100				R	R	R	R	R	100	21 <sup>u</sup>	99		81 <sup>u</sup>						
	<i>Enterococcus faecium</i>	182	24				R	R	R	R	R	88	27 <sup>u</sup>	24		18 <sup>u</sup>						
	<i>Staphylococcus aureus</i>	All	2799	70			70			77	97	100	97									
		MSSA	1949	100				100			81	97	100	96								
		MRSA	850	R				R			69	97	100	98								
	<i>Staphylococcus coag neg</i>	118		54				54			71	75	100	95								
	<i>Staphylococcus lugdunensis</i>	113		95				95			90	99	100	96								
	<i>Streptococcus anginosus</i> group	38	100						100		81		100									
	Group A <i>Streptococcus</i> ♦	65	100						100	100		95		100								
	Group B <i>Streptococcus</i>	73	100						100	100		50		100								
GN	<i>Streptococcus pneumoniae</i>	non-meningitis	67	91					97					100	75			82				
		meningitis	67	86					97													
GN	<i>Citrobacter freundii</i> complex*	165	R	R		R	R	R	R			87			95		82		96	98	99	99
	<i>Citrobacter koseri</i>	81	R		96	99	99	100	100			100			84		96		100	100		
	<i>Klebsiella (Enterobacter) aerogenes</i> *	82	R	R		R	R	R	R			99			13		98		100	100	96	100
	<i>Enterobacter cloacae</i> complex*	277	R	R		R	R	R	R			95			29		94		99	99	83	100
	<i>Escherichia coli</i>	All	6891	62	84	97	92	90	92			82			97		74		95	95		
		non-ESBL	6277	68	88	98	99	97	100			84			98		78		96	97		
		ESBL	614	R			R	R	R	R		58			94	99	30		83	79	100	100
	<i>Klebsiella oxytoca</i>	241	R		94	96	83	67	94			96			80		96		99	99		
	<i>Klebsiella pneumoniae</i>	1017	R		91	97	95	93	95			93			34		88		96	96		
	<i>Morganella morganii</i> *	63	R	R		R	R	R	R			70		R	R		62		79	93	100	100
	<i>Proteus mirabilis</i>	353	82	90	100	98	87	99				81		R	R		82		95	98		
	<i>Pseudomonas aeruginosa</i>	548	R	R	93		R	95				R		R			87		99	R	92	
	<i>Serratia marcescens</i> *	51	R	R	R	R	R	R				100		R		94		100	100	98	100	
	<i>Stenotrophomonas maltophilia</i>	44	R	R	R	R	R	R				98					90	R	R	R	R	

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*; ESBL - extended spectrum beta-lactamase; R - intrinsic resistance