



**ALBERTA PRECISION
LABORATORIES**

Leaders in Laboratory Medicine

Antibiotic % Susceptibility Patterns: Central Zone - 2019

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) ^u	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Trimethoprim- sulfamethoxazole	Vancomycin	Tetracycline	Nitrofurantoin (Urine) ^u	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Ertapenem	Meropenem		
GP	<i>Enterococcus faecalis</i>	2015		100				R	R	R	R	R	R	100	20 ^u	99	82 ^u							
	<i>Enterococcus faecium</i>	218		25				R	R	R	R	R	R	91	29 ^u	19	23 ^u							
	<i>Staphylococcus aureus</i>	All	3007			73				73			78	98	100	97								
		MSSA	2207			100				100			82	98	100	97								
		MRSA	800			R				R			68	98	100	98								
	<i>Staphylococcus coag neg</i>	120			55				55			71	74	100	90									
	<i>Staphylococcus lugdunensis</i>	152			95				95			89	100	100	98									
	<i>Streptococcus anginosus</i> group	45	98							100		81		100										
	<i>Streptococcus viridans</i> group (non-anginosus)	32	78								100	91		100										
	Group A <i>Streptococcus</i> ♦	69	100							100	100	87		100										
	Group B <i>Streptococcus</i>	99	100							100	100	53		100										
	<i>Streptococcus pneumoniae</i>	non-meningitis	99	92											100	79			85					
		meningitis	99	87							100				100									
GN	<i>Citrobacter freundii</i> complex*	233		R		R		R	R				91			95	91		99	99	100	100		
	<i>Citrobacter koseri</i>	105		R		97	99	94	96	99			99			82	97		100	100				
	<i>Klebsiella (Enterobacter) aerogenes</i> *	105		R		R		R	R				99			8	97		100	100	100	100		
	<i>Enterobacter cloacae</i> complex*	294		R		R		R	R				92			34	93		98	100	90	99		
	<i>Escherichia coli</i>	All	8303		65		86	98	98	93	99			83			97	79		94	95			
		ESBL	570		R				R	R	R	R		56			94	26		77	73	100	100	
	<i>Klebsiella oxytoca</i>	311		R		95	96	88	55	96			95			87	96		100	100				
	<i>Klebsiella pneumoniae</i>	1190		R		95	96	96	93	96			94			39	90		98	96				
	<i>Morganella morganii</i> *	84		R		R		R	R				77		R	R	83		89	94	100	100		
	<i>Proteus mirabilis</i>	432		79		94	100	98	78	98			80		R	R	80		97	97				
	<i>Pseudomonas aeruginosa</i>	609		R		R	93			R	95		R		R		88			99	R	94		
	<i>Serratia marcescens</i> *	61		R		R		R	R				100			R	95		100	90	98	98		
	<i>Stenotrophomonas maltophilia</i>	44		R		R	R			R			98					84	R	R	R	R		
<i>Haemophilus influenzae</i>	32		21							92		65					100							

*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; R - intrinsic resistance

MSSA - methicillin-susceptible *Staphylococcus aureus*; MRSA - methicillin-resistant *Staphylococcus aureus*; ESBL - extended spectrum beta-lactamase;