



# ALBERTA PRECISION LABORATORIES

Leaders in Laboratory Medicine

## Antibiotic % Susceptibility Patterns: Blood Cultures Inpatient (FMC, PLC, RGH, SHC) January - December 2022

Data derived from routine susceptibility tests performed by Alberta Precision Laboratories

N	Penicillin (IV)	Ampicillin	Cloxacillin	Piperacillin-Tazobactam	Cefazolin	Ceftriaxone	Ceftazidime	Trimethoprim-sulfamethoxazole	Vancomycin	Ciprofloxacin	Gentamicin	Tobramycin	Ertapenem	Meropenem
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Gram-positive															
Enterococcus faecalis		35		100			R	R	R	R	100				
Enterococcus faecium		30		13			R	R	R	R	70				
Staphylococcus aureus	All	147			84		84				100				
	MSSA	124			100		100				100				
Staphylococcus, coagulase-negative		67			30		30				100				
Streptococcus anginosus group <sup>b</sup>		30	100					100			100				
Streptococcus viridans group <sup>b</sup>		38	62					100			100				

Gram-negative																
Enterobacter cloacae complex <sup>a,b</sup>		46		R			R			85		87	96	93	87	93
Escherichia coli	All	142		55		73	60	73		74		62	89	89		
	ESBL <sup>b</sup>	57		R			R	R	R	39		7	58	60	98	100
Klebsiella pneumoniae complex		54		R		80	70	80		89		72	98	98		
Pseudomonas aeruginosa		32		R		91		R	94	R		75		100	R	94

<sup>a</sup> These organisms usually produce  $\beta$ -lactamase which can cause failure of 3rd generation cephalosporin therapy, despite in vitro susceptibility

<sup>b</sup> Combined data (January - December 2021 and January - December 2022) due to the small number of isolates in 2022

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

**Abbreviations:** MSSA - methicillin-susceptible *Staphylococcus aureus*; ESBL - extended spectrum beta-lactamase; R - intrinsic resistance