ALBERTA PRECISION LABORATORIES

Leaders in Laboratory Medicine

Antibiotic % Susceptibility Patterns
South Health Campus
January - December 2022

Data derived from routine susceptibility tests performed by Alberta Precision Laboratories

		N	Penicillin (IV)	Ampicillin / Amoxicillin	Cloxacillin	Amoxicillin-Clavulanate	Piperacillin-Tazobactam	Cephalexin	Cefazolin	Cefixime	Ceftriaxone	Ceftazidime	Clindamycin	Trimethoprim-sulfamethoxazole	Vancomycin	Tetracycline[c]	Doxycycline[b]	Nitrofurantoin[b]	Fosfomycin (PO)[b]	Ciprofloxacin	Gentamicin	Tobramycin	Ertapenem	Meropenem
Gram-positive																								
Enterococcus faecalis		82		**100**				R	R	R	R	R	R	R	**100**	**23**		**100**		**91**[b]				
Enterococcus faecium		31		**19**				R	R	R	R	R	R	R	**90**	**42**				**19**[b]				
Staphylococcus aureus	All	96			**84**			**84**	**84**				**73**	**95**	**100**	**93**								
	MSSA	82			**100**			**100**	**100**				**76**	**95**	**100**	**93**								
Staphylococcus, coagulase-negative[d]		40			**30**			**30**	**30**				**60**	**65**	**100**	**93**								
Gram-negative																								
Enterobacter cloacae complex[a,d]		45		R		R		R	R					**96**						**91**	**93**	**93**	**93**	**100**
Escherichia coli	All	138		**57**		**81**	**81**	**75**[b]	**70**	**76**	**81**			**81**				**98**		**59**	**91**	**93**		
	ESBL[d]	47		R				R	R	R	R	R		**34**			**35**	**91**	**97**	**2**	**74**	**79**	**100**	**100**
Klebsiella pneumoniae complex		51		R		**90**	**90**	**100**[b]	**90**	**92**	**94**			**96**				**50**		**88**	**98**	**100**		
Pseudomonas aeruginosa		43		R		R	**100**			R	R	**100**		R		R	R			**74**		**98**	R	**98**

[a] These organisms usually produce β-lactamase which can cause failure of 3rd generation cephalosporin therapy, despite in vitro susceptibility
[b] Urine isolates only
[c] Susceptibility to doxycycline can be inferred from susceptibility to tetracycline
[d] 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