ALBERTA PRECISION LABORATORIES

Leaders in Laboratory Medicine

Antibiotic % Susceptibility Patterns: Urine - Males > 40 years
Emergency and Community Patients
January - December 2022

Data derived from routine susceptibility tests performed by Alberta Precision Laboratories

		N	Ampicillin / Amoxicillin	Cloxacillin	Amoxicillin-Clavulanate	Piperacillin-Tazobactam	Cephalexin	Cefazolin	Cefixime	Ceftriaxone	Ceftazidime	Trimethoprim-sulfamethoxazole	Vancomycin	Tetracycline[c]	Doxycycline	Nitrofurantoin	Fosfomycin (PO)	Ciprofloxacin	Gentamicin	Tobramycin	Ertapenem	Meropenem
Gram-positive																						
Enterococcus faecalis		897	**100**				R	R	R	R	R	R	**100**	**22**		**99**		**88**				
Enterococcus faecium[d]		66	**32**				R	R	R	R	R	R	**86**	**29**		**21**		**23**				
Staphylococcus aureus[a]	All	188		**91**				**91**					**100**									
	MSSA	173		**100**				**100**					**100**									
Gram-negative																						
Citrobacter freundii complex[b]		55	R		R		R	R				**75**				**93**		**72**	**91**	**91**	**98**	**98**
Citrobacter koseri		75	R		**97**	**99**	**99**	**99**	**100**	**100**		**100**				**93**		**96**	**100**	**100**		
Enterobacter cloacae complex[b]		134	R		R		R	R				**87**				**33**		**87**	**96**	**98**	**99**	**100**
Escherichia coli	All	1678	**53**		**83**	**84**	**82**	**79**	**83**	**84**		**77**				**98**		**62**	**89**	**88**		
	ESBL	244	R				R	R	R	R	R	**49**			**49**	**91**	**98**	**5**	**66**	**55**	**100**	**100**
Klebsiella (Enterobacter) aerogenes[b]		42	R		R		R	R				**100**				**29**		**90**	**100**	**100**	**98**	**100**
Klebsiella oxytoca		165	R		**92**	**93**	**87**	**53**	**99**	**93**		**98**				**90**		**96**	**99**	**99**		
Klebsiella pneumoniae complex	All	375	R		**93**	**93**	**92**	**91**	**92**	**93**		**89**				**36**		**81**	**97**	**96**		
	ESBL[d]	36	R				R	R	R	R	R	**20**			**36**	**6**		**14**	**50**	**44**	**94**	**97**
Morganella morganii[b]		66	R		R		R	R				**74**				R		**65**	**85**	**89**	**100**	**100**
Proteus mirabilis		169	**79**		**98**	**98**	**98**	**75**	**98**	**98**		**78**		R	R	R		**80**	**93**	**92**		
Pseudomonas aeruginosa		175	R		R	**95**			R	R	**97**	R		R	R			**84**		**97**	R	**89**
Serratia marcescens[b]		41	R		R		R	R				**98**				R		**90**	**100**	**98**	**100**	**100**

[a] Staphylococcus aureus bacteriuria may be associated with blood stream or other systemic infection. Clinical correlation required.
[b] These organisms usually produce β-lactamase which can cause failure of 3rd generation cephalosporin therapy, despite in vitro susceptibility
[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