

The following antibiograms are profiles of antimicrobial susceptibility testing results of pathogens submitted to LifeLabs from January 1, 2015 to December 31, 2015 as per the Clinical and Laboratory Standards Institute (CLSI) document M39-A4.

Respiratory Tract Pathogens

ORGANISM	Number of isolates	ANTIBIOTIC (% susceptible)																	
		Amoxicillin - Clavulanate	Ampicillin	Azithromycin	Ceftriaxone	Cefturoxime	Ciprofloxacin	Clarithromycin	Doxycycline	Erythromycin	Levofloxacin	Tetracycline	Penicillin (oral)	TMX	Ceftazidime	Gentamicin	Meropenem	Piperacillin-Tazobactam	Tobramycin
<i>Haemophilus influenzae</i>	118	99	75		99		99					91	R	70					
<i>Pseudomonas aeruginosa</i>	108						85								91	81	96	93	100
<i>Streptococcus pneumoniae</i>	88		100	51	100 (n=48)	94 (n=48)		51	45	51	98	61	81	72					

Skin and Soft Tissue Pathogens

ORGANISM	Number of isolates	ANTIBIOTIC (% susceptible)													
		Ampicillin	Azithromycin	Ceftriaxone	Cephalothin / Cephalixin	Clarithromycin	Clindamycin	Cloxacillin	Erythromycin	Levofloxacin	Linezolid	Penicillin	Tetracycline	TMX	Vancomycin
<i>S. aureus</i> (MSSA)	4219				100		85	100	80				95	99	
<i>S. aureus</i> (MRSA)	1367	R		R	R		67	R	20		100	R	88	97	100
Group B Streptococcus ¹	899	100	46	100	100	46	48		46	97		100		R	100
Group A Streptococcus ¹	868	100	79	100	100	79	79		79	100		100		R	100

¹ Susceptibility testing was performed for a small subset of isolates as per physician request: Group B Streptococcus (n=59) and Group A Streptococcus (n=78). Groups A, B, C and G streptococcal isolates are predictably susceptible to penicillin, amoxicillin and cephalosporins (e.g. cephalixin), therefore antimicrobial susceptibility testing is not routinely performed. Susceptibility to erythromycin and clindamycin is variable..

Urinary Tract Pathogens

ORGANISM	Number of isolates	ANTIBIOTIC (% susceptible)									
		Ampicillin	Ceftriaxone	Cephalothin / Cephalixin	Ciprofloxacin	Fosfomycin ³	Gentamicin	Nitrofurantoin	Tetracycline	TMX	
<i>Escherichia coli</i>	22662	58	90	57	80	98	92	96	72	75	
Group B Streptococcus ²	4105						R			R	
<i>Enterococcus faecalis</i>	2959	99		R	78	98		98	20	R	
<i>Klebsiella pneumoniae</i>	2465	R	97	94	97		98	40	86	91	
<i>Proteus mirabilis</i>	1226	77	96	87	83		95	R	R	77	

² Antimicrobial susceptibility testing is not routinely performed on urine isolates of Streptococcus group B because such infections usually respond to antibiotics commonly used to treat uncomplicated urinary tract infections, such as ampicillin, cephalosporins and nitrofurantoin. Susceptibility to fluoroquinolones is variable.

³ Fosfomycin testing was performed on a limited number of *E. coli* (n=1550) and *E. faecalis* (n=41) isolates.

	90-100% of isolates are susceptible to the antibiotic indicated (GOOD CHOICE)
	21-89% of isolates are susceptible to the antibiotic indicated (INTERMEDIATE CHOICE)
	0-20% of isolates are susceptible to the antibiotic indicated (POOR CHOICE)
R	The organism is inherently resistant to the antibiotic indicated OR is not recommended due to poor clinical response and/or poor activity
	Antimicrobial susceptibility testing not performed

TMX = Trimethoprim-Sulfamethoxazole; **MSSA** = Methicillin-susceptible *Staphylococcus aureus*; **MRSA** = Methicillin-resistant *Staphylococcus aureus*