Children's Mercy Hospitals & Clinics - 2023 Antibiogram

Department of Pathology & Laboratory Medicine- Microbiology Laboratory

Gram Negative Antibiogram (% susceptible)

Organism	# of isolates tested	Amikacin [1]	Ampicillin	Amp/sulbactam [1]	Cefazolin	Cefepime	Ceftazidime	Ceftriaxone	Ciprofloxacin	Gentamicin	Meropenem [1]	Pip/tazo	Tobramycin	Trimeth/Sulfa
Acinetobacter baumannii complex (includes **ALL** sources)	22 [2]	-	-	89	-	-	86	32	95	82	95	-	-	86
Citrobacter freundii (includes **ALL** sources)	25 [2]	-	IR	IR	IR	-	95	95	100	100	100	-	-	91
Klebsiella aerogenes^ (includes **ALL** sources)	25 [2]	100	IR	IR	IR	100	94	94	100	96	100	-	-	100
Serratia marcescens (includes **ALL** sources)	62	-	IR	IR	IR	100	100	98	100	100	100	-	-	98
Enterobacter cloacae (Non-urine sources **ONLY**)	58	100	IR	IR	IR	100[b]	-	100 [2]	100	96	100	-	-	98
Pseudomonas aeruginosa (Non-Urine sources **ONLY**)	200	-	-	-	-	77 [2]	96	-	92	-	95	87	-	-
Escherichia coli* (Non-Urine sources **ONLY)	84	100	51	-	62[a]	88[b]	88	88	89	90	100	99	-	78
Klebsiella oxytoca (Non-Urine sources **ONLY**)	43	100	IR	-	24[a]	94[b]	95	92	95	95	100	-	-	92
Klebsiella pneumoniae* (Non-Urine sources **ONLY)	43	100	IR	50 [2]	67[a]	94[b]	93	93	91	93	100	95	-	93
Proteus mirabilis* (Non-Urine sources **ONLY)	12 [2]	-	83	-	17[a]	100[b]	100	100	100	100	100	-	-	90

ESBL positive isolates: *E. coli* (9), *K. pneumoniae* (4), *K. oxytoca* (0)

^ *Klebsiella aerogenes,* formerly named *Enterobacter aerogenes.*

[1] Antibiotics tested on Non-Urine isolates only: *A. baumannii* complex (18), *K. aerogenes* (9).

[2] Please exercise discretion when data are reviewed for species with fewer that 30 isolates.

[a] Cefazolin susceptibility based off Kirby Bauer results.

[b] Cefepime susceptibility based off Kirby Bauer results.

IR = Intrinsic Resistance, (-) = No data available

**E. coli, K. pneumoniae and P. mirabilis* breakpoints differ for urine culture vs. cultures from all other sources. Please contact the Microbiology laboratory for more information.

Children's Mercy Hospitals & Clinics - 2023 Antibiogram

Department of Pathology & Laboratory Medicine- Microbiology Laboratory

Gram Negative - URINE ONLY- Antibiogram (%susceptible)

Organism	# of isolates tested	Ampicillin	Amox/clav	Cefazolin	Cefepime	Ceftazidime	Ceftriaxone	Ciprofloxacin	Gentamicin	Nitrofurantoin	Tobramycin	Trimeth/Sulfa
Enterobacter cloacae	41	IR	IR	IR	-	83	81	98	100	45	-	89
Pseudomonas aeruginosa	68	-	-	-	100	96	-	99	-	-	-	-
**Escherichia coli*	1441	54	66	92	-	96	96	91	91	98	-	76
Klebsiella oxytoca	56	IR	93	27	-	100	95	100	100	95	-	92
**Klebsiella pneumoniae*	109	IR	96	94	-	98	98	97	96	25	-	93
**Proteus mirabilis*	104	88	100	98	-	99	100	100	97	IR	-	90

ESBL positive isolates: *E. coli* (66), *K. pneumoniae* (3), *K. oxytoca* (0)

IR = Intrinsic Resistance, (-) = No data available

**E. coli, K. pneumoniae and P. mirabilis* breakpoints differ for urine culture vs. cultures from all other sources. Please contact the Microbiology laboratory for more information.

Children's Mercy Hospitals & Clinics - 2023 Antibiogram

Department of Pathology & Laboratory Medicine- Microbiology Laboratory

Gram Positive Antibiogram (%Susceptible)

Organism	# of isolates tested	Ampicillin	Cefotaxime	Clindamycin	Erythromycin	Gentamicin [3]	Linezolid	Meropenem	Nitrofurantoin [4]	Oxacillin	Penicillin	Penicillin (Oral)	Rifampin[a]	Tetracycline	Trim/Sulfa	Vancomycin
Enterococcus faecalis	197	99	-	-	-	-	-	-	100	-	99	-	-	-	-	100
All Staphylococcus aureus	1177	-	-	81	56	-	100	-	100	72	0	-	100	93	94	100
MSSA	852	-	-	79	68	-	100	-	100	100	0	-	100	95	96	100
MRSA	325	-	-	85	26	-	100	-	100	0	0	-	100	89	88	100
Staphylococcus epidermidis	123	-	-	52	28		100	-	100	33	0	-	99	85	58	100
S. pneumoniae *	64	-	-	88	58	-	-	93	-	-	-	64§	-	-	-	100
Meningitis breakpoint		-	89†	-	-	-	-	-	-	-	67†	-	-	-	-	-
Non-meningitis breakpoint		-	98‡	-	-	-	-	-	-	-	95†	-	-	-	-	-

**S. pneumoniae* % susceptible was calculated using all isolates based on meningitis, nonmeningitis and oral breakpoints.
of *S.pneumoniae* isolates tested: Penicillin=64, Cefotaxime=64, Erythromycin=50, Clindamycin=64, Meropenem=14, Vancomycin=14

†Susceptible breakpoint for *S. pneumoniae* in patients with meningitis is ≤ 0.5 µg/mL for cefotaxime and ≤ 0.06 µg/mL for penicillin

‡ Susceptible breakpoint for *S. pneumoniae* in patients with non-meningitis infections is ≤ 1µg/mL for cefotaxime and ≤ 2 µg/mL for penicillin

§ Susceptible breakpoint for *S. pneumoniae* is ≤ 0.06 µg/mL for penicillin when penicillin V is administered by the oral route

[3] Used only in combination for synergy and is not adequate therapy by itself.

[4] Antibiotics tested on UTI isolates only: *E. faecalis* (166), *S. aureus* (45), *S. epidermidis* (53)

(-) =No data available