



Children's Mercy KANSAS CITY

Children's Mercy Hospitals & Clinics - 2022 Antibigram Department of Pathology & Laboratory Medicine- Microbiology Laboratory

2022 Gram Negative Antibigram (% susceptible)

Organism	# of isolates tested	Amikacin ¹	Ampicillin	Amp/sulbactam ¹	Cefazolin	Cefepime	Ceftazidime	Ceftriaxone	Ciprofloxacin	Gentamicin	Meropenem ¹	Pip/tazo	Tobramycin	Trimeth/Sulfa
<i>Acinetobacter baumannii</i> complex (includes ALL sources)	38	-	-	100	-	-	76	24	100	95	100	-	97	97
<i>Citrobacter freundii</i> (includes ALL sources)	30	100	IR	IR	IR	-	87	90	100	90	100	-	90	87
<i>Klebsiella aerogenes</i> [^] (includes ALL sources)	28 ²	100	IR	IR	IR	100	79	79	100	96	100	-	96	93
<i>Serratia marcescens</i> (includes ALL sources)	84	99	IR	IR	IR	100	100	99	99	100	100	-	92	100
<i>Enterobacter cloacae</i> (Non-urine sources ONLY)	92	100	IR	IR	IR	98 ^b	90	89	100	100	100	-	100	99
<i>Pseudomonas aeruginosa</i> (Non-Urine sources ONLY)	214	98	-	-	-	96	95	-	98	-	96	98	98	-
* <i>Escherichia coli</i> (Non-Urine sources ONLY)	134	96	51	57	70 ^a	88 ^b	86	86	83	91	100	95	89	69
<i>Klebsiella oxytoca</i> (Non-Urine sources ONLY)	52	100	IR	81	21 ^a	90 ^b	100	90	100	98	98	-	98	96
* <i>Klebsiella pneumoniae</i> (Non-Urine sources ONLY)	63	100	IR	85	81 ^a	86 ^b	90	90	97	94	100	97	94	94
* <i>Proteus mirabilis</i> (Non-Urine sources ONLY)	16 ²	100	81	94	5 ^a	89 ^b	88	88	88	88	100	100	88	75

ESBL positive isolates: *E. coli* (12), *K. pneumoniae* (4), *K. oxytoca* (1)

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

¹ Antibiotics tested on Non-Urine isolates only: *A. baumannii* complex (27), *C. freundii* (9), *K. aerogenes* (13), *S. marcescens* (74).

² Please exercise discretion when data are reviewed for species with fewer than 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 KANSAS CITY

Children's Mercy Hospitals & Clinics - 2022 Antibigram Department of Pathology & Laboratory Medicine- Microbiology Laboratory

2022 Gram Negative - URINE ONLY- Antibigram (% susceptible)

Organism	# of isolates tested	Ampicillin	Amox/clav	Cefazolin	Cefepime	Ceftazidime	Ceftriaxone	Ciprofloxacin	Gentamicin	Nitrofurantoin	Tobramycin	Trimeth/Sulfa
<i>Enterobacter cloacae</i>	37	IR	IR	IR	-	89	86	100	100	46	100	91
<i>Pseudomonas aeruginosa</i>	59	-	-	-	93	97	-	92	-	-	98	-
* <i>Escherichia coli</i>	1459	60	83	96	-	98	98	92	94	98	94	79
<i>Klebsiella oxytoca</i>	44	IR	95	18	-	95	93	100	98	95	98	80
* <i>Klebsiella pneumoniae</i>	113	IR	92	95	-	96	96	96	95	33	96	83
* <i>Proteus mirabilis</i>	84	86	94	98	-	100	100	99	98	IR	98	93

ESBL positive isolates: *E. coli* (55), *K. pneumoniae* (8), *K. oxytoca* (2)

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 - 2022 Antibigram
Department of Pathology & Laboratory Medicine- Microbiology Laboratory**

2022 Gram Positive Antibigram (% 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
<i>Enterococcus faecalis</i>	203	99	-	-	-	-	-	-	99	-	100	-	-	-	-	100
All <i>Staphylococcus aureus</i>	1187	-	-	80	54	-	100	-	100	70	0	-	100	95	95	100
MSSA	830	-	-	78	68	-	100	-	100	100	0	-	100	95	97	100
MRSA	357	-	-	86	23	-	100	-	100	0	0	-	100	94	88	100
<i>Staphylococcus epidermidis</i>	175	-	-	44	18	80	100	-	100	33	0	-	100	85	62	100
<i>S. pneumoniae</i> [*]	74	-	-	89	73	-	-	91	-	-	-	73 [§]	-	-	-	100
Meningitis breakpoint		-	86 [†]	-	-	-	-	-	-	-	73 [†]	-	-	-	-	-
Non-meningitis breakpoint		-	97 [‡]	-	-	-	-	-	-	-	97 [‡]	-	-	-	-	-

**S. pneumoniae* % susceptible was calculated using all isolates based on meningitis, nonmeningitis and oral breakpoints.

of *S.pneumoniae* isolates tested: Penicillin=74, Cefotaxime=74, Erythromycin=52, Clindamycin=73, Meropenem=22, Vancomycin=22

[†]Susceptible breakpoint for *S. pneumoniae* in patients with meningitis is $\leq 0.5 \mu\text{g/mL}$ for cefotaxime and $\leq 0.06 \mu\text{g/mL}$ for penicillin

[‡]Susceptible breakpoint for *S. pneumoniae* in patients with non-meningitis infections is $\leq 1\mu\text{g/mL}$ for cefotaxime and $\leq 2 \mu\text{g/mL}$ for penicillin

[§]Susceptible breakpoint for *S. pneumoniae* is $\leq 0.06 \mu\text{g/mL}$ 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* (169), *S. aureus* (49), *S. epidermidis* (68)

(-) =No data available