

**Inpatient ICU - Gram Negative Organisms**

Category		Beta-lactams									Fluoro quino lones		Amino glycosides			Other	
Organism	n	Ampicillin	Ampicillin/Sulbactam	Piperacillin/Tazobactam	Cefazolin	Ceftazidime	Ceftriaxone	Cefepime	Aztreonam	Meropenem	Ciprofloxacin	Levofloxacin	Amikacin	Gentamicin	Tobramycin	Trimethoprim/Sulfamethoxazole	Nitrofurantoin
breakpoints (mcg/mL)			8/4	16/4		8	8	8		2	1	2	16	4	4	2/38	
Acinetobacter baumannii	17 <sup>A</sup>	0	100	—	0	94	72	94	0	100	100	100	100	100	100	100	0
breakpoints (mcg/mL)		8	8/4	16/4	2	4	1	2	4	1	0.25	0.5	16	4	4	2/38	32
Enterobacter cloacae	48	0	2	78	0	79	75	91	79	100	97	100	100	100	100	95	50
Escherichia coli	137	43	48	97	68	86	78	81	84	99	64	69	99	86	83	67	100
Klebsiella aerogenes	14 <sup>A</sup>	0	0	78	7	78	78	85	78	92	100	100	100	100	100	100	0
Klebsiella pneumoniae	73	0	68	84	73	78	79	79	79	94	78	78	98	89	86	76	36
Proteus mirabilis	25 <sup>A</sup>	68	76	100	36	92	84	84	92	—	72	72	92	84	80	80	0
Serratia marcescens	22 <sup>A</sup>	0	0	95	0	100	95	100	100	100	95	95	100	100	86	—	0
breakpoints (mcg/mL)				16/4		8		8	8	2	0.5	1	16	4	4		
Pseudomonas aeruginosa	97	0	0	74	0	79	0	80	77	91	72	71	98	88	93	0	—
breakpoints (mcg/mL)						8						2				2/38	
Stenotrophomonas maltophilia	38	—	—	0	—	47	—	—	0	0	—	86	—	—	—	100	—

**Inpatient Non-ICU - Gram Negative Organisms**

Category		Beta-lactams									Fluoro quino lones		Amino glycosides			Other	
Organism	n	Ampicillin	Ampicillin/Sulbactam	Piperacillin/Tazobactam	Cefazolin	Ceftazidime	Ceftriaxone	Cefepime	Aztreonam	Meropenem	Ciprofloxacin	Levofloxacin	Amikacin	Gentamicin	Tobramycin	Trimethoprim/Sulfamethoxazole	Nitrofurantoin
breakpoints (mcg/mL)		8	8/4	16/4	2	4	1	2	4	1	0.25	0.5	16	4	4	2/38	32
Citrobacter freundii	15 <sup>A</sup>	0	13	50	7	53	53	93	46	100	93	93	100	100	100	93	90
Enterobacter cloacae	39	0	0	69	0	71	66	84	71	97	89	94	100	97	97	94	10
Escherichia coli	282	52	60	96	76	85	80	84	83	100	64	69	99	87	88	73	97
Klebsiella aerogenes	14 <sup>A</sup>	0	0	50	0	50	50	78	50	100	85	92	100	100	100	92	9
Klebsiella oxytoca	13 <sup>A</sup>	0	30	100	30	92	92	92	92	100	76	84	100	92	92	84	100
Klebsiella pneumoniae	102	0	65	83	75	80	80	81	80	99	72	78	100	87	86	82	43
Proteus mirabilis	48	68	77	100	56	95	83	89	95	—	70	70	97	83	81	75	0
Serratia marcescens	10 <sup>A</sup>	0	0	90	0	90	90	90	90	100	100	100	100	100	90	100	—
breakpoints (mcg/mL)				16/4		8		8	8	2	0.5	1	16	4	4		
Pseudomonas aeruginosa	127	0	0	77	0	81	0	82	74	86	72	73	100	92	97	0	—
breakpoints (mcg/mL)						8						2				2/38	
Stenotrophomonas maltophilia	20 <sup>A</sup>	0	0	0	—	45	0	—	0	0	—	75	0	0	0	95	—

Outpatient / ED - Gram Negative Organisms

Category		Beta-lactams									Fluoro quino lones		Amino glycosides			Other	
Organism	n	Ampicillin	Ampicillin/Sulbactam	Piperacillin/Tazobactam	Cefazolin	Ceftazidime	Ceftriaxone	Cefepime	Aztreonam	Meropenem	Ciprofloxacin	Levofloxacin	Amikacin	Gentamicin	Tobramycin	Trimethoprim/Sulfamethoxazole	Nitrofurantoin
breakpoints (mcg/mL)		8	8/4	16/4	2	4	1	2	4	1	0.25	0.5	16	4	4	2/38	32
Citrobacter freundii	62	0	9	80	1	77	77	96	79	100	82	90	100	96	96	77	96
Citrobacter koseri	53	0	100	100	92	100	100	100	100	100	100	100	100	100	100	98	54
Enterobacter cloacae	95	0	1	88	3	83	74	91	85	97	93	94	100	97	96	86	36
Escherichia coli	2563	65	70	98	91	96	94	95	95	99	76	82	100	94	94	81	98
Klebsiella aerogenes	55	0	0	88	0	87	87	100	90	100	89	92	100	100	100	100	26
Klebsiella oxytoca	66	0	46	96	74	96	95	96	95	100	95	100	100	96	96	92	91
Klebsiella pneumoniae	575	0	85	94	93	96	95	95	96	100	90	93	100	97	96	91	49
Morganella morganii	24 <sup>A</sup>	0	20	100	4	91	95	100	100	100	91	91	100	91	100	83	0
Proteus mirabilis	181	83	88	100	84	99	98	98	99	—	85	86	100	94	92	85	0
Serratia marcescens	29 <sup>A</sup>	0	0	100	0	100	96	100	100	100	93	96	100	100	75	—	0
breakpoints (mcg/mL)				16/4		8		8	8	2	0.5	1	16	4	4		
Pseudomonas aeruginosa	207	0	0	92	0	94	0	93	86	91	81	79	98	94	98	0	0
breakpoints (mcg/mL)						8						2				2/38	
Stenotrophomonas maltophilia	31	0	0	0	—	55	0	0	0	0	—	62	0	0	0	100	—

Data source: UCDH Laboratory Information Service, excluding duplicate, CF and surveillance isolates.

Breakpoints for susceptibility defined by Clinical Laboratory Standards Institute (CLSI M100 29th Edition, Jan 2019) .

Organisms with a total number of less than 10 isolates recovered for the year are not included in this report.

Footnote

<sup>A</sup> Calculated from fewer than the standard recommendation of 30 isolates. Interpret with caution.