



Marshfield Labs™

A division of Marshfield Clinic

2014 Outpatient Cumulative Antibigram

Microbiology Section
Division of Laboratory Medicine, Marshfield Clinic
Marshfield Wisconsin

Contact Dr. Thomas Novicki or Dr. Thomas Fritsche at ext. 16300 (715-221-6300) for additional information regarding this report. Contact the Marshfield Clinic Pharmacy Drug Information Service at ext. 19800 (715-221-9800) for dosing and other drug information.

Gram Negative % Susceptible	<i>Acinetobacter</i> sp.	<i>Citrobacter</i> <i>freundii</i>	<i>Enterobacter</i> <i>aerogenes</i>	<i>Enterobacter</i> <i>cloacae</i>	<i>Escherichia</i> <i>coli</i>	<i>Haemophilus</i> <i>influenzae</i> (1)	<i>Klebsiella</i> <i>pneumoniae</i>	<i>Klebsiella</i> <i>oxytoca</i>	<i>Proteus</i> <i>mirabilis</i>	<i>Pseudomonas</i> <i>aeruginosa</i>	<i>Stenotrophomonas</i> <i>malophilia</i> (1)
Maximum # tested	34	41	27	53	1514	75	244	50	101	248	64
Amikacin	88%	100%	100%	100%	100%	-	100%	100%	100%	99%	-
Ampicillin	-	2%	0%	0%	68%	71% (2)	0%	0%	53%	0%	-
Ampicillin/ Sulbactam	85%	83%	15%	34%	74%	-	89%	56%	93%	0%	-
Aztreonam	-	90%	89%	77%	98%	-	100%	98%	100%	88%	-
Cefazolin	-	0%	0%	0%	83%	-	91%	10%	12%	0%	-
Cefepime	85%	100%	100%	100%	100%	-	100%	98%	100%	98%	-
Ceftazidime	82%	93%	96%	77%	98%	-	100%	100%	100%	97%	66%
Ceftriaxone	62%	93%	93%	74%	96%	-	100%	98%	99%	0%	-
Ciprofloxacin	82%	98%	100%	100%	88%	-	99%	100%	78%	91%	-
Gentamicin	79%	98%	100%	100%	95%	-	100%	100%	84%	98%	-
Imipenem	85%	100%	100%	98%	100%	-	100%	100%	85%	95%	-
Levofloxacin	82%	100%	100%	100%	88%	-	100%	100%	79%	86%	77%
Meropenem	88%	100%	100%	100%	100%	-	100%	100%	100%	99%	-
Nitrofurantoin	-	97%	82%	68%	99%	-	93%	92%	0%	0%	-
Piperacillin/ Tazobactam	85%	95%	96%	85%	100%	-	98%	94%	100%	97%	-
Tetracycline	79%	83%	96%	92%	83%	-	84%	96%	0%	0%	-
Ticarcillin/ Clavulanic Acid	76%	90%	96%	68%	87%	-	93%	92%	100%	94%	64%
Tobramycin	82%	100%	100%	100%	97%	-	100%	100%	90%	98%	-
Trimethoprim/Sulphamethoxazole	85%	88%	100%	91%	85%	-	94%	98%	85%	0%	100%

Footnotes

-, data not available.

(1) Marshfield Clinic and Ministry St. Joseph's Hospital (Marshfield WI) combined data.

(2) Ampicillin susceptibility predicted from a negative beta-lactamase test.

Gram Positive % Susceptible	<i>Enterococcus</i> sp.	<i>Staphylococcus</i> <i>aureus</i>	<i>Staphylococcus</i> , coagulase- negative	<i>Streptococcus</i> anginosus group	<i>Streptococcus</i> <i>pneumoniae</i> (1)
Maximun # tested	645	1340	680	33	63
Ampicillin	94%	-	-	-	-
Ceftriaxone	-	-	-	100%	-
Ceftriaxone M (2)	-	-	-	-	86%
Ceftriaxone NM (3)	-	-	-	-	98%
Clindamycin	-	77%	44%	91%	-
Daptomycin	100%	100%	100%	100%	-
Erythromycin	12%	57%	4%	79%	49%
Gentamicin	-	98%	85%	-	-
Gentamicin synergy (4)	80%	-	-	-	-
Levofloxacin	74%	76%	49%	-	98%
Linezolid	100%	100%	100%	100%	-
Nitrofurantoin	99%	99%	100%	-	-
Oxacillin (5)	-	72%	47%	-	-
Penicillin	-	22%	24%	100%	-
Penicillin, M&O (6)	-	-	-	-	65%
Penicillin, NM (7)	-	-	-	-	96%
Tetracycline	25%	93%	87%	61%	89%
Trimethoprim/Sulphamethoxazole	-	99%	71%	-	92%
Vancomycin	95%	100%	100%	100%	100%

Footnotes

-, data not available or clinically unproven, or intrinsically resistant.

(1) Marshfield Clinic and Ministry St. Joseph's Hospital (Marshfield WI) combined data.

(2) Based on **meningeal** breakpoint of ≤ 0.5 mcg/mL = susceptible. Primarily penicillin non-susceptible isolates tested.

(3) Based on **non-meningeal** breakpoint of ≤ 1 mcg/mL = susceptible. Primarily penicillin non-susceptible isolates tested.

(4) Gentamicin Synergy, synergistic action is predicted when co-treated with a cell wall-active agent (ampicillin or vancomycin) and gentamicin **when the isolate is susceptible to both agents**.

(5) Oxacillin/methicillin susceptible=susceptible to anti-staphylococcal penicillins (e.g. cloxacillin, nafcillin), cephalosporins, beta lactam/beta lactamase inhibitor antimicrobials, and carbapenems.

(6) Based on **oral/meningeal** breakpoints of ≤ 0.06 mcg/mL = susceptible.

(7) Based on **non-meningeal** breakpoint of ≤ 2 mcg/mL = susceptible.