

**Sanford Health Bismarck
GRAM-NEGATIVE Antibiogram:
2022 (Jan-Dec 2021 data)
INPATIENT + OUTPATIENT DATA
% susceptible**

-: Not Tested / Not Clinically Effective
!: <30 isolates may not be clinically significant

↑ or ↓ = change of 5-9%
↑↑ or ↓↓ = change of ≥10%

Data compiled by: Steve Mahlen, PhD, D(ABMM),
Clinical Microbiologist, (701) 323-6167

Organism	# of isolates	Ampicillin	Ampicillin / Sulbactam	Cefazolin	Ceftazidime	Ceftriaxone	Cefepime	Ciprofloxacin	Levofloxacin	Gentamicin	Meropenem	Nitrofurantoin - Urine only	Piperacillin - Tazobactam	Tobramycin	Trimeth / Sulfa
<i>Citrobacter freundii</i>	170	-	-	-	85 ↓	82	95	92	93	98	99	90	97	97	95
<i>Klebsiella aerogenes</i>	103	-	-	-	83	80	100	96	96	99	99	36	91	99	100
<i>Enterobacter cloacae</i>	176	-	-	-	77	72	92	94	93	96	96	39 ↑	82	96	90
<i>Escherichia coli</i>	3817	64	70	95	97	96	96	86	88	95	100	99	99	97	84
<i>Klebsiella pneumoniae</i>	630	-	90	96	96	96	96	94	97	98	99	65 ↑	97	97	93
<i>Klebsiella oxytoca</i>	163	-	65	16 ↑	97	90	94	95	96	96	100	95	93	96	96
<i>Proteus mirabilis</i>	266	88	95	94	100	99	99	78	80	97	100	-	100	98	86
<i>Pseudomonas aeruginosa</i>	301	-	-	-	95	-	91	83	81	83	93	-	96	97	-
<i>Serratia marcescens</i>	45	-	-	-	91 ↓	82 ↓	100	78 ↓	90	100	100	-	93	95	100
<i>Stenotrophomonas maltophilia</i>	38	-	-	-	44	-	-	-	90	-	-	-	-	-	97
<i>Haemophilus influenzae</i>	27!	74	-	-	-	-	-	-	-	-	-	-	-	-	-

**Sanford Health Bismarck
GRAM-POSITIVE Antibiogram:
2022 (Jan-Dec 2021 data)
INPATIENT + OUTPATIENT
DATA
% susceptible**

-: Not tested / Not clinically effective
!: <30 isolates may not be clinically significant
*CSF isolates only; non-meningitis isolates: 100%
@Gentamicin high-level synergy susceptibility is 95% for *E. faecium*, 83% for *E. faecalis*
#: Isolates susceptible to tetracycline are susceptible to doxycycline

↑ or ↓ = change of 5-9%
↑↑ or ↓↓ = change of ≥10%

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Organism	# of isolates	Ampicillin	Ceftriaxone	Ciprofloxacin	Levofloxacin	Gentamicin	Nitrofurantoin - Urine only	Trimeth / Sulfa	Clindamycin	Erythromycin	Oxacillin	Penicillin Non CSF Isolates	Penicillin CSF ONLY	Tetracycline	Vancomycin	Linezolid
<i>Streptococcus pneumoniae</i>	37	-	94*	-	100	-	-	80 ↑↑	75 ↓↓	50 ↓	-	94	70	75#	100	-
<i>Enterococcus faecium</i>	41	24 ↓	-	-	-	@	79	-	-	-	-	-	-	-	48	100
<i>Enterococcus faecalis</i>	414	99	-	85 ↑	88	@	99	-	-	-	-	-	-	-	99	100
<i>Staphylococcus aureus MRSA</i>	336	-	-	-	-	-	100	98	79	14	0	-	-	94#	100	100
<i>Staphylococcus aureus MSSA</i>	680	-	-	-	-	-	100	99	80	69	100	-	-	94#	100	100
<i>Staphylococcus epidermidis</i>	207	-	-	-	-	-	100	68	59	27	42	-	-	85#	99	100