

# OCHSNER LAFAYETTE GENERAL SUSCEPTIBILITY OF COMMON ORGANISMS Jan-Dec 2023

Zoltan Gombos, MD, PhD  
Clinical Laboratory Director  
Ochsner Lafayette General  
Lafayette, LA

The susceptibility information reported is based on the Food & Drug Administration (FDA) Minimum Inhibitory Concentration (MIC) susceptibility breakpoints which differ from the Clinical & Laboratory Standards Institute (CLSI) MIC susceptibility breakpoints. **While this information is consistent with previously published internal antibiogram data, these data may overestimate organism susceptibility particularly with regards to *Pseudomonas aeruginosa* susceptibilities to Piperacillin/Tazobactam and Meropenem when compared with CLSI MIC susceptibility breakpoints.**

## Important Contacts

### Clinical Microbiology Senior Technologist

Joyce Burt, MLS(ASCP)<sup>CM</sup>SM<sup>CM</sup>  
337-289-7670

[joyce.burt@ochsner.org](mailto:joyce.burt@ochsner.org)

### Clinical Microbiology Supervisor

Enna K. Castaneda MLS(ASCP)<sup>CM</sup>  
337-289-8905

[enna.castaneda@ochsner.org](mailto:enna.castaneda@ochsner.org)

### Antimicrobial Stewardship Service

Stephanie Barras, RPh, PhAST  
337-289-8213

### System ASP Pharmacist

Yewande Dayo, PharmD, BCIDP  
[Yewande.dayo@ochsner.org](mailto:Yewande.dayo@ochsner.org)

### System ASP Physician

Sandra Kemmerly, MD,  
MACP, FIDSA  
[skemmerly@ochsner.org](mailto:skemmerly@ochsner.org)

(EPIC: Weblink Resources > Physicians)

[Ochsner Antimicrobial Stewardship Program - ASP  
Home \(sharepoint.com\)](#)

[Antimicrobial Stewardship Program | Ochsner Health](#)

## IMPORTANT NOTES:

### *Gram positive organism susceptibilities*

1. **Staphylococci that are oxacillin-susceptible** (i.e. MSSA) are also considered susceptible to beta-lactam inhibitor combinations, cephalosporins, and carbapenems. **Oxacillin-resistant** isolates (i.e. MRSA) are also resistant to all currently available beta-lactams (e.g. penicillins, cephalosporins, and carbapenems) **EXCEPT for ceftaroline**.
2. **Beta-hemolytic streptococci (Group A, B, C, F and G)** are uniformly susceptible to beta lactams (e.g. penicillins, cephalosporins, carbapenems). Antibiotic susceptibility testing is not routinely performed on these isolates.
3. Isolates **resistant or intermediate to tetracycline** may be **susceptible to doxycycline, minocycline, or both**. If additional testing for these agents is warranted, please contact the microbiology laboratory.

### *Gram negative organism susceptibilities*

1. When treating serious *Enterobacter cloacae*, *Citrobacter freundii*, and *Klebsiella aerogenes* infections, avoid use of third generation cephalosporins or piperacillin/tazobactam (even if they initially test susceptible) due concerns of inducing resistance on therapy due to clinically significant beta-lactamase (ampC) hyperproduction. Cefepime is the antibiotic of choice for these pathogens, with carbapenems as an alternative if cefepime resistant or allergy constraints.
2. *Haemophilus influenzae* is predictably susceptible to beta-lactam inhibitor combinations. *Moraxella catarrhalis* predictably produces a beta lactamase that may not respond to beta lactam beta lactamase inhibitor combinations however may be reliably susceptible to second and third generation cephalosporins.

### *Candida species susceptibilities*

*Candida albicans* is reliably susceptible to fluconazole and can be used empirically for this *Candida* species. For non - albicans candida, ID involvement for consideration of species-specific characteristics should be sought for ideal management secondary to dose dependent susceptibility.

**OCHSNER LAFAYETTE GENERAL**  
**SUSCEPTIBILITY OF COMMON ORGANISMS**  
**Jan-Dec 2023**

<u>Gram Negative Isolates</u>	Enterobacter cloacae Complex	Escherichia coli	Escherichia coli ESBL	Klebsiella pneumoniae (ssp pneumoniae)	Proteus mirabilis	Pseudomonas aeruginosa	Stenotrophomonas maltophilia	Serratia marcescens	Citrobacter koseri	Klebsiella oxytoca	Morganella morganii	Acinetobacter baumannii complex
	329	5177	855	1502	1085	940	93	166	178	166	173	121
AMOXICILLIN/CLAVULANATE	0	86	44	94	100	~	~	0	99	96	0	~
AMPICILLIN	~	53	0	0	76	~	~	~	~	0	0	~
AMPICILLIN/SULBACTAM	~	~	~	~	~	~	~	~	~	~	~	63
CEFEPIME	98	97	47	96	99	94	~	100	99	100	~	~
CEFTRIAXONE	~	96	17	95	99	~	~	96	97	99	~	~
CEFUROXIME	0	89	0	90	98	~	~	~	79	87	0	~
CIPROFLOXACIN	94	72	19	89	71	83	~	87	94	98	67	46
GENTAMICIN^^	98	92	74	96	94	91	~	99	98	99	88	96
LEVOFLOXACIN	93	70	15	86	71	69	83	85	94	96	66	68
MEROPENEM	99	100	100	99	99	92	~	99	100	100	100	68
MINOCYCLINE	~	~	~	~	~	~	100	~	~	~	~	~
NITROFURANTOIN^^	42	96	84	32	0	~	~	0	89	92	0	~
PIPERACILLIN/AZOBACTAM	93	98	87	96	99	88	~	~	100	98	99	51
TETRACYCLINE	95	77	38	80	0	~	~	30	98	95	52	62
TOBRAMYCIN^^	94	92	59	95	95	98	~	89	99	99	93	96
TRIMETH/SULFA	94	72	37	91	77	~	88	98	98	96	73	96

^^Nitrofurantoin tested on urine isolates only.

^^Aminoglycosides, including amikacin, gentamicin, and tobramycin, should not generally be used as monotherapy unless treating a UTI.

**OCHSNER LAFAYETTE GENERAL**  
**SUSCEPTIBILITY OF COMMON ORGANISMS**  
**Jan-Dec 2023**

<u>Gram Positive Isolates</u>	Staphylococcus aureus (MSSA)	Staphylococcus aureus (MRSA)	Streptococcus pyogenes (Group A)	Streptococcus agalactiae (Group B)	Streptococcus pneumoniae	Enterococcus faecalis	Enterococcus faecium (VRE)
<b>Total isolates+</b>	<b>763</b>	<b>860</b>	<b>128</b>	<b>322</b>	<b>74</b>	<b>1012</b>	<b>66</b>
<b>AMPICILLIN*</b>	~	~	100	100	~	100	3
<b>CEFTRIAXONE (non-meningitis)</b>	~	~	100	~	96	~	~
<b>CIPROFLOXACIN</b>	81	25	~	~	~	83	~
<b>CLINDAMYCIN</b>	78	70	88	27	76	~	~
<b>GENTAMICIN</b>	96	99	~	~	~	~	~
<b>LEVOFLOXACIN</b>	~	~	95	~	97	83	0
<b>LINEZOLID</b>	100	100	100	100	100	100	100
<b>MEROPENEM</b>	~	~	~	~	68	~	~
<b>NITROFURANTOIN+</b>	100	99	~	~	~	99	48
<b>OXACILLIN</b>	100	0	~	~	~	~	~
<b>PENICILLIN (non-meningitis)</b>	~	~	100	100	96	~	~
<b>TETRACYCLINE</b>	88	92	87	15	80	27	3
<b>TRIMETH/SULFA</b>	98	96	~	~	72	~	~
<b>VANCOMYCIN</b>	100	100	100	100	100	100	0

‡ Enterococci that are susceptible to ampicillin are also susceptible to amoxicillin and piperacillin. Isolates resistant to ampicillin are also resistant to above agents. Enterococci are intrinsically resistant to all cephalosporins and to trimethoprim/sulfamethoxazole.

++ Nitrofurantoin tested on urine isolates only.

1) Isolates resistant or intermediate to tetracycline may be susceptible to doxycycline, minocycline, or both. If additional testing for these agents is warranted, please contact the microbiology laboratory.

2) Staphylococci that are oxacillin-susceptible (i.e. MSSA) are also considered susceptible to beta-lactam inhibitor combinations, cephalosporins, and carbapenems. Oxacillin-resistant isolates (i.e. MRSA) are also resistant to all currently available beta-lactams (e.g. penicillins, cephalosporins, and carbapenems) **EXCEPT for ceftaroline**. Beta-hemolytic streptococci (Group A, B, C, F and G) are uniformly susceptible to beta lactams (e.g. penicillins, cephalosporins, carbapenems). Antibiotic susceptibility testing is not routinely performed on these isolates.

3) Beta-hemolytic streptococci (Group A, B, C, F and G) are uniformly susceptible to beta lactams (e.g. penicillins, cephalosporins, carbapenems). Antibiotic susceptibility testing is not routinely performed on these isolates.