

Reported externally  
Internal unless rule triggered

Urine only  
Non-Urine only  
May be tested/reported by request

Staphylococcus				Enterococcus				S. pneumo				Beta Strep Group B				Other Beta-Strep			
	R	S	PHX		R	S	PHX		R	S	PHX		R	S	PHX		R	S	PHX
CZ	FOX Result		Yes	AM	16	17	Yes	All sites				OB isolates				CC <sup>4</sup>	15	19	-
CC	14	21	Yes	E	13	23	Yes	CRO	E-test (TX)		Yes	CC <sup>4</sup>	15	19	-	E	15	21	-
E	13	23	Yes	GM <sup>(HL)</sup>	6	10	Yes	p <sup>6</sup>	E-test (PG)		Yes	Urine				PG		E-test	-
GM	12	15	Yes	LVX	13	17	Yes	SXT	15	19	Yes	LVX	17	13	Yes	VA	-	17	-
LVX <sup>1</sup>	15	19	Yes	LZD	20	23	Yes	VA	-	17	Yes	PG	-	24	Yes	Candida spp. MH+GMB in O <sub>2</sub>			
MI	14	19	Yes	FM <sup>3</sup>	14	17	-	Non-blood/CSF add				TET	23	18	Yes		R	S	PHX
FM	14	17	Yes	TE	14	19	Yes	CC	15	19	Yes	VA	-	17	Yes	FCA	14	19	-
OX	FOX Result		Yes	VA	14	17	Yes	E	15	21	Yes	Non-sterile sites				VOR	13	17	-
SXT <sup>2</sup>	10	16	SA	<sup>3</sup> FM canned comment (does not apply to VRE).				LVX	13	17	Yes	CC <sup>4</sup>	15	19	-				
VA	E-test		Yes					Blood/CSF add				E	15	21	Yes				
<b>S. aureus/lugdunensis</b>				<b>Viridans Strep</b>				MEM <sup>7</sup>	-	-	Yes	PG	-	24	Yes				
FOX	21	22	Yes	CC	15	19	Yes	<sup>6</sup> Enter Pen MIC under both oral and parenteral. Enter 2 digits beyond the decimal (e.g., enter 0.06, not 0.06125)				VA	-	17	Yes				
<b>Coag-Neg Staph</b>				TX		E-test	Yes					Sterile sites				CRO	-	24	Yes
FOX <sup>2</sup>	24	25	No	PG		E-test	Yes	<sup>7</sup> If manually testing, do IP E-test instead.				PG		E-test	Yes				
<sup>1</sup> Not reported for blood isolates.				VA	-	17	Yes					<sup>4</sup> Perform D-test with CC & E disks 12 mm				VA	-	17	Yes
<sup>2</sup> For CoNS, enter disk results in Epicenter.																			

Enterobacteriaceae				Salmonella				Acinetobacter spp.				Stenotrophomonas				Aeromonas					
	R	S	PHX	Intestinal sites					R	S	PHX		R	S	PHX		R	S	PHX		
AN	-	-	Yes	AM	13	17	Yes	Test CF isolates offline				Test CF isolates offline				AN	-	-	Yes		
AM	13	17	Yes	LVX	13	17	Yes	AN	-	-	Yes	TZ (MIC) ≥ 32 ≤ 8	Yes	AMC	13	18	No				
AMC	13	18	Yes	SXT	10	16	Yes	CAZ	14	18	Yes	LVX	13	17	Yes	CZ	14	18	Yes		
CZ	14	18	Yes	Extraintestinal sites				CIP	15	21	Yes	MI	14	19	No	CAZ	14	18	Yes		
CAZ	14	18	Yes	AM	13	17	Yes	FEP	-	-	Yes	SXT	10	16	Yes	CRO	13	21	Yes		
CRO	13	21	Yes	LVX	13	17	Yes	GM	12	15	Yes	Other Non-fermenters*				CIP	15	21	Yes		
CIP	15	21	Yes	SXT	10	16	Yes	IPM	13	16	Yes	All by MIC testing only				GM	12	15	Yes		
FEP	-	-	Yes	CRO	13	21	Yes	LVX	13	17	Yes	Test CF isolates offline				IPM	13	16	Yes		
GM	12	15	Yes	<b>Shigella</b>				SXT	10	16	Yes	AN	-	-	Yes	LVX	13	17	Yes		
IPM	13	16	Yes	AM	13	17	Yes	NN	12	15	Yes	TZ/CAZ ≥ 32 ≤ 8	Yes	TZP	17	21	Yes	TZP	17	21	Yes
LVX	13	17	Yes	LVX	13	17	Yes	TE	11	15	Yes	CRO	-	-	Yes	SXT	10	16	Yes		
FM	14	17	Yes	SXT	10	16	Yes	TZP	17	21	No	CI/CIP ≥ 4 ≤ 1	Yes	Phoenix limitation: AMC not reported for Aeromonas							
TE	11	15	Yes	<b>P. aeruginosa</b>				Limitation: TZP not reported from Phoenix on Acinetobacter.				FEP	-	-	Yes	<b>H. influenzae</b> Disk on HTM in CO <sub>2</sub>					
TZP	17	21	Yes		R	S	PHX	Test CF isolates offline				GM	≥ 16 ≤ 4	Yes	Non-blood/CSF						
NN	12	15	Yes	AN	-	-	Yes	<b>B. cepacia</b>				IP/IPM ≥ 16 ≤ 4	Yes	AM	18	22	-				
SXT	10	16	Yes	ATM	15	22	Yes	Test CF isolates offline				LVX	-	-	Yes	CRO	-	26	-		
Limitations: No Phoenix IPM on Proteus, no SXT on S. marcescens				CAZ	14	18	Yes	CAZ	17	21	Yes	TS/SXT ≥ 4/76 ≤ 2/38	Yes	SXT	10	16	-				
				CIP	15	21	Yes	LE (MIC) ≥ 8 < 2	Yes	TZP	-	-	Yes	CSF/Blood							
				FEP	-	-	Yes	MEM	15	20	No	NN	-	-	Yes	AM	18	22	-		
				GM	12	15	Yes	MI	14	19	No	*Phoenix will provide AST results for some species. Others may need E-tests.				CRO	-	26	-		
				IPM	15	19	Yes	SXT	10	16	Yes					IPM	-	16	-		
				LVX	13	17	Yes														
				MEM	13	16	No														
				TZP	14	21	Yes														
				NN	12	15	Yes														

**LIS cascading rules for select AST results.**

<u>Enterobacteriaceae</u> AN will report if GM or NN are R or I CAZ and CRO be reported if CZ is R or I FEP will be reported if CAZ or CRO are R or I	<u>P. aeruginosa/Acinetobacter/Other NF</u> AN will report if GM or NN are R or I FEP will be reported if CAZ or CRO are R or I	<u>Enterococcus</u> LZD will report if VA is R
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# Esoteric AST performed by Request & with Rounds Consultation

<i>Bacillus</i> spp. E-test on MH in O <sub>2</sub> 35 °C 16-20 h				<i>Campy. jejuni/coli</i> Etest on BMH Microaer 36-37 °C 48 h or 42 °C for 24 h				<i>Coryne</i> spp. E-test on BMH in O <sub>2</sub> 35 °C 24-48 h				HACEK E-test on BMH in CO <sub>2</sub> 35 °C 24-48 h				<i>Helicobacter pylori</i> 2 McFarland Etest on BMH in Microaer 35 °C for 72 h				
	R	S	PHX		R	S	PHX		R	S	PHX		R	S	PHX		R	S	PHX	
<b>Primary AST</b>				E	32	8	-	<b>All Sites</b>				TX	-	2	-	AC	No interp			
TX	64	8	-	CIP	4	1	-	TX	4	1	-	CI	4	1	-	CH	1	0.25	-	
CI	4	1	-					PG	4	1	-	IP <sup>Haem</sup>	16	4	-	TC	No interp			
PG	0.25	0.12	-					TS	4/76	2/38	-	IP <sup>Other</sup>	2	0.5	-					
TS	4/76	2/38	-					<b>Sterile sites add</b>				PG	4	1	-					
VA	-	4	-					IP	16	4	-	TC	8	2	-					
<b>Also available</b>								VA	-	4	-	TS	4/76	0.5/9.5	-					
EM	8	0.5	-					<b>Non-sterile add</b>				Haem = <i>Aggregatibacter</i> spp. ( <i>H. aphrophilus</i> , <i>H. paraphrophilus</i> , <i>H. segnis</i> , and <i>A. actinomycetemcomitans</i> )								
GM	16	4	-					CI	4	1	-									
IP	16	4	-					EM	2	0.5	-									
								<b>Urine add</b>												
								CI	4	1	-									

<i>Lactobacillus</i> spp. E-test on BMH in CO <sub>2</sub> 35 °C 24-48 h				<i>M. catarrhalis</i> Disk on MH in CO <sub>2</sub> 35 °C 20-24 h				<i>Pasteurella</i> Disk on BMH in O <sub>2</sub> 35 °C 16-18 h				<i>Vibrio</i> Disk on MH in O <sub>2</sub> 35 °C 16-18 h			
	R	S	PHX		R	S	PHX		R	S	PHX		R	S	PHX
PG	-	8	-	AMC	23	24	-	AM	-	27	-	AM	13	17	-
EM	8	0.5	-	TX E-test	-	2	-	AMC	-	27	-	AMC	13	18	-
GM	16	4	-	EM	-	21	-	CRO	-	34	-	CAZ	17	21	-
IP	-	0.5	-	LE E-test	-	2	-	LVX	-	28	-	CIP	15	21	-
				TE	24	29	-	TE	-	23	-	GM	12	15	-
				SXT	10	13	-	E	24	27	-	IPM	13	16	-
								SXT	-	24	-	LVX	13	17	-
												TE	11	15	-
												TZP	17	21	-
												SXT	10	16	-

## Reasons for Testing/Not Testing:

*Bacillus* spp., *Corynebacterium*, & *Lactobacillus* spp. are frequently encountered as contaminating bacteria in cultures. Testing of isolates from normally sterile sources (blood, deep tissue, implanted prosthetic devices) may be warranted, especially in immunodeficient patients.

*Campylobacter* gastrointestinal infections are typically self-limiting and do not warrant antimicrobial therapy. AST may be indicated for managing patients with prolonged or severe symptoms.

HACEK organisms isolated from normally sterile sources may warrant AST, especially in immunodeficient patients or those patients unable to tolerate empiric beta-lactam therapy. For isolates of *Eikenella*, from bite wound infections, testing may not be necessary when using augmentin, considering the high probability of susceptibility.

*Moraxella catarrhalis* AST is not routinely recommended. However, testing may be useful for management of patients with prolonged or severe infections.

*Pasteurella* isolates from bite wounds do not warrant routine AST. Multiple organisms are often present in these specimens; therefore, empiric therapy directed towards these organisms is generally effective for *Pasteurella*. Testing of isolates from normally sterile sources and respiratory specimens may be warranted, especially in immunodeficient patients.

*Vibrio* spp. AST is most often limited to isolates from extraintestinal sites.