

**Table 8A. Distribution of MICs and Occurrence of Resistance for Top Serotypes Tested from Swine, 2010<sup>1</sup>**

Antimicrobial	Serotype (# of Isolates)	%I <sup>2</sup>	%R <sup>3</sup>	95% CI <sup>4</sup>	Distribution (%) of MICs (µg/ml) <sup>5</sup>																									
					0.015	0.03	0.06	0.125	0.25	0.50	1	2	4	8	16	32	64	128	256	512	1024									
<b>Aminoglycosides</b>																														
Amikacin	Derby (18)	0.0	<b>0.0</b>	0.0-21.9																										
	Saintpaul (11)	0.0	<b>0.0</b>	0.0-32.1																										
	Typhimurium var. 5- (10)	0.0	<b>0.0</b>	0.0-34.5																										
Gentamicin	Derby (18)	5.6	<b>0.0</b>	0.0-21.9																										
	Saintpaul (11)	0.0	<b>0.0</b>	0.0-32.1																										
	Typhimurium var. 5- (10)	0.0	<b>10.0</b>	0.5-45.9																										
Kanamycin	Derby (18)	0.0	<b>0.0</b>	0.0-21.9																										
	Saintpaul (11)	0.0	<b>0.0</b>	0.0-32.1																										
	Typhimurium var. 5- (10)	0.0	<b>10.0</b>	0.5-45.9																										
Streptomycin	Derby (18)	0.0	<b>50.0</b>	26.8-73.2																										
	Saintpaul (11)	0.0	<b>0.0</b>	0.0-32.1																										
	Typhimurium var. 5- (10)	0.0	<b>50.0</b>	20.1-79.9																										
<b>β-Lactam/β-Lactamase Inhibitor Combinations</b>																														
Amoxicillin-Clavulanic Acid	Derby (18)	0.0	<b>0.0</b>	0.0-21.9																										
	Saintpaul (11)	0.0	<b>0.0</b>	0.0-32.1																										
	Typhimurium var. 5- (10)	30.0	<b>10.0</b>	0.5-45.9																										

<sup>1</sup> Data is only presented for serotypes with at least 10 or more isolates

<sup>2</sup> Percent of isolates with intermediate susceptibility

<sup>3</sup> Percent of isolates that were resistant

<sup>4</sup> 95% confidence intervals for percent resistant (%R) were calculated using the Wilson interval with continuity correction method

<sup>5</sup> The unshaded areas indicate the range of dilutions tested for each antimicrobial. Single vertical bars indicate the breakpoints for susceptibility, while double vertical bars indicate the breakpoints for resistance. Numbers in the shaded area indicate the percentages of isolates with MICs greater than the highest tested concentrations. Numbers listed for the lowest tested concentrations represent the percentages of isolates with MICs equal to or less than the lowest tested concentration. CLSI breakpoints were used when available. There are no CLSI breakpoints for streptomycin; breakpoints established by NARMS were used

**Table 8A (continued). Distribution of MICs and Occurrence of Resistance for Top Serotypes Tested from Swine, 2010<sup>1</sup>**

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					0.015	0.03	0.06	0.125	0.25	0.50	1	2	4	8	16	32	64	128	256	512	1024
<b>Cephems</b>																					
	Cefoxitin	Derby (18)	0.0	<b>0.0</b>	0.0-21.9																
		Saintpaul (11)	0.0	<b>0.0</b>	0.0-32.1						18.2	72.7	9.1								
		Typhimurium var. 5- (10)	0.0	<b>0.0</b>	0.0-34.5							90.0	10.0								
Ceftiofur																					
		Derby (18)	0.0	<b>0.0</b>	0.0-21.9																
		Saintpaul (11)	0.0	<b>0.0</b>	0.0-32.1						63.6	36.4									
		Typhimurium var. 5- (10)	0.0	<b>0.0</b>	0.0-34.5						10.0	90.0									
Ceftriaxone																					
		Derby (18)	0.0	<b>0.0</b>	0.0-21.9					100.0											
		Saintpaul (11)	0.0	<b>0.0</b>	0.0-32.1					100.0											
		Typhimurium var. 5- (10)	0.0	<b>0.0</b>	0.0-34.5					100.0											
<b>Folate Pathway Inhibitors</b>																					
	Sulfonamides	Derby (18)	N/A	<b>44.4</b>	22.4-68.6																
		Saintpaul (11)	N/A	<b>0.0</b>	0.0-32.1																
		Typhimurium var. 5- (10)	N/A	<b>60.0</b>	27.4-86.3																
Trimethoprim-Sulfamethoxazole																					
		Derby (18)	N/A	<b>0.0</b>	0.0-21.9						77.8	16.7	5.6								
		Saintpaul (11)	N/A	<b>0.0</b>	0.0-32.1						100.0										
		Typhimurium var. 5- (10)	N/A	<b>10.0</b>	0.5-45.9						90.0										

<sup>1</sup> Data is only presented for serotypes with at least 10 or more isolates

<sup>2</sup> Percent of isolates with intermediate susceptibility

<sup>3</sup> Percent of isolates that were resistant

<sup>4</sup> 95% confidence intervals for percent resistant (%R) were calculated using the Wilson interval with continuity correction method

<sup>5</sup> The unshaded areas indicate the range of dilutions tested for each antimicrobial. Single vertical bars indicate the breakpoints for susceptibility, while double vertical bars indicate the breakpoints for resistance. Numbers in the shaded area indicate the percentages of isolates with MICs greater than the highest tested concentrations. Numbers listed for the lowest tested concentrations represent the percentages of isolates with MICs equal to or less than the lowest tested concentration. CLSI breakpoints were used when available. There are no CLSI breakpoints for streptomycin; breakpoints established by NARMS were used

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					0.015	0.03	0.06	0.125	0.25	0.50	1	2	4	8	16	32
<b>Penicillins</b>																
Ampicillin	Derby (18)	0.0	<b>0.0</b>	0.0-21.9												
	Saintpaul (11)	0.0	<b>0.0</b>	0.0-32.1												
	Typhimurium var. 5- (10)	0.0	<b>40.0</b>	13.7-72.6												
<b>Phenicol</b>																
Chloramphenicol	Derby (18)	0.0	<b>0.0</b>	0.0-21.9												
	Saintpaul (11)	0.0	<b>0.0</b>	0.0-32.1												
	Typhimurium var. 5- (10)	0.0	<b>40.0</b>	13.7-72.6												
<b>Quinolones</b>																
Ciprofloxacin	Derby (18)	0.0	<b>0.0</b>	0.0-21.9												
	Saintpaul (11)	0.0	<b>0.0</b>	0.0-32.1												
	Typhimurium var. 5- (10)	0.0	<b>0.0</b>	0.0-34.5												
Nalidixic Acid	Derby (18)	N/A	<b>0.0</b>	0.0-21.9												
	Saintpaul (11)	N/A	<b>0.0</b>	0.0-32.1												
	Typhimurium var. 5- (10)	N/A	<b>0.0</b>	0.0-34.5												
<b>Tetracyclines</b>																
Tetracycline	Derby (18)	0.0	<b>77.8</b>	51.9-92.6												
	Saintpaul (11)	0.0	<b>0.0</b>	0.0-32.1												
	Typhimurium var. 5- (10)	0.0	<b>70.0</b>	35.4-91.9												

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<sup>3</sup> Percent of isolates that were resistant

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