Table 3A. Distribution of MICs and Occurrence of Resistance by Animal Source among *Salmonella*, 2007

Antimicrobial	Isolate Source (# of Isolates)	%I[1]	%R[2]	95% CI[3]	Distribution (%) of MICs (µg/ml)[4] 0.015	0.03	0.06	0.125	0.25	0.50	1	2	4	8	16	32	64	128	256	512	1024
Aminoglycosides																					
Amikacin	Chicken (994)	0.0	**0.0**	0.0-0.5						35.5	57.5	6.4	0.5								
	Turkey (271)	0.0	**0.0**	0.0-1.7						18.1	67.9	12.5	1.1	0.4							
	Cattle (439)	0.0	**0.0**	0.0-1.1						12.3	60.8	25.3	1.4	0.2							
	Swine (211)	0.0	**0.5**	0-3.1						13.3	71.6	11.8	2.8					**0.5**			
Gentamicin	Chicken (994)	0.6	**4.5**	3.3-6.0					83.7	10.0	0.8		0.4	0.6	**2.9**	**1.6**					
	Turkey (271)	4.1	**12.9**	9.3-17.6					66.4	14.8	1.1	0.4	0.4	4.1	**7.0**	**5.9**					
	Cattle (439)	0.0	**1.6**	0.7-3.4					63.8	33.3	1.4				**0.7**	**0.9**					
	Swine (211)	0.5	**0.9**	0.1-3.7					77.7	20.9				0.5	**0.5**	**0.5**					
Kanamycin	Chicken (994)	0.0	**3.4**	2.4-4.8										96.1	0.5		**0.2**	**3.2**			
	Turkey (271)	1.1	**16.2**	12.1-21.3										82.3	0.4	1.1	**1.1**	**15.1**			
	Cattle (439)	0.0	**7.7**	5.5-10.7										91.8	0.5		**0.5**	**7.3**			
	Swine (211)	0.0	**7.1**	4.2-11.7										92.9				**7.1**			
Streptomycin	Chicken (994)	N/A	**19.3**	16.9-21.9												80.7	**16.7**	**2.6**			
	Turkey (271)	N/A	**34.7**	29.1-40.7												65.3	**22.1**	**12.5**			
	Cattle (439)	N/A	**19.8**	16.2-23.9												80.2	**2.5**	**17.3**			
	Swine (211)	N/A	**27.0**	21.2-33.6												73.0	**18.0**	**9.0**			
Aminopenicillins																					
Ampicillin	Chicken (994)	0.0	**17.0**	14.7-19.5							80.4	2.3	0.2	0.1		**0.1**	**16.9**				
	Turkey (271)	0.0	**36.9**	31.2-43.0							60.9	2.2					**36.9**				
	Cattle (439)	0.0	**20.0**	16.4-24.1							77.0	2.7	0.2				**20.0**				
	Swine (211)	0.0	**18.0**	13.2-24.0							75.4	5.7	0.5	0.5		**0.5**	**17.5**				
β-Lactam/β-Lactamase Inhibitor Combinations																					
Amoxicillin-Clavulanic Acid	Chicken (994)	0.2	**15.6**	13.4-18.0							82.2	0.7	0.2	1.1	0.2	**1.5**	**14.1**				
	Turkey (271)	17.3	**11.1**	7.7-15.6							60.5	2.6	0.4	8.1	17.3	**2.6**	**8.5**				
	Cattle (439)	1.6	**15.5**	12.3-19.3							76.5	2.7	1.4	2.3	1.6	**3.2**	**12.3**				
	Swine (211)	11.4	**3.3**	1.5-7.0							80.6	0.9		3.8	11.4	**0.9**	**2.4**				
Cephalosporins																					
Ceftiofur	Chicken (994)	0.4	**15.4**	13.2-17.8				0.2	4.0	54.5	25.4	0.1	0.4	**2.6**	**12.8**						
	Turkey (271)	0.0	**11.1**	7.7-15.6					0.7	43.9	43.5	0.7		**1.5**	**9.6**						
	Cattle (439)	0.9	**15.5**	12.3-19.3				0.2	1.8	39.6	41.0	0.9	0.9	**2.1**	**13.4**						
	Swine (211)	0.9	**2.8**	1.1-6.3						40.3	55.0	0.9	0.9	**0.5**	**2.4**						
Ceftriaxone	Chicken (994)	10.0	**0.4**	0.1-1.1					84.2	0.2			0.5	4.7	8.0	1.9	**0.4**				
	Turkey (271)	8.1	**0.0**	0.0-1.7					88.6	0.4				3.0	5.5	2.6					
	Cattle (439)	13.4	**0.7**	0.2-2.2					82.9	0.7	0.2	0.2	0.5	1.4	8.9	4.6	**0.7**				
	Swine (211)	1.9	**0.5**	0-3.1					96.7			0.9			1.9		**0.5**				

[1] Percent of isolates with intermediate susceptibility

[2] Percent of isolates that were resistant

[3] 95% confidence intervals for percent resistant (%R) were calculated using the Wilson interval with continuity method

[4] 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.

Table 3A (continued). Distribution of MICs and Occurrence of Resistance by Animal Source among *Salmonella* , 2007

Antimicrobial	Isolate Source (# of Isolates)	%I[1]	%R[2]	[95% CI][3]	Distribution (%) of MICs (µg/ml)[4] 0.015	0.03	0.06	0.125	0.25	0.50	1	2	4	8	16	32	64	128	256	512	1024
Cephamycins																					
Cefoxitin	Chicken (994)	2.3	**13.0**	11.0-15.3						0.2	12.3	45.5	22.2	4.5	2.3	**9.8**	**3.2**				
	Turkey (271)	3.0	**9.2**	6.2-13.4							7.0	49.8	25.1	5.9	3.0	**4.4**	**4.8**				
	Cattle (439)	1.4	**15.0**	11.9-18.8						0.2	6.6	34.2	33.3	9.3	1.4	**3.9**	**11.2**				
	Swine (211)	0.0	**2.8**	1.1-6.3							2.8	40.3	44.1	10.0		**1.9**	**0.9**				
Folate Pathway Inhibitors																					
Sulfonamides	Chicken (994)	N/A	**10.4**	8.6-12.5											38.8	45.7	4.9	0.1	0.1	**10.4**	
	Turkey (271)	N/A	**25.5**	20.5-31.2											17.0	46.9	9.6	0.7	0.4	**25.5**	
	Cattle (439)	N/A	**21.6**	17.9-25.8											25.1	42.6	10.5	0.2		**21.6**	
	Swine (211)	N/A	**30.8**	24.7-37.6											35.1	27.0	6.6		0.5	**30.8**	
Trimethoprim-Sulfamethoxazole	Chicken (994)	N/A	**0.0**	0.0-0.5				88.0	10.0	1.8	0.2										
	Turkey (271)	N/A	**1.1**	0.3-3.5				77.9	17.7	1.1	1.1	1.1		**1.1**							
	Cattle (439)	N/A	**3.0**	1.7-5.2				73.1	18.7	4.1	0.9	0.2	**0.7**	**2.3**							
	Swine (211)	N/A	**1.9**	0.6-5.1				69.7	23.2	3.3	1.9			**1.9**							
Phenicols																					
Chloramphenicol	Chicken (994)	0.4	**1.8**	1.1-2.9								5.1	58.0	34.6	0.4	**0.1**	**1.7**				
	Turkey (271)	1.8	**5.5**	3.2-9.1								1.1	49.4	42.1	1.8		**5.5**				
	Cattle (439)	0.9	**20.0**	16.4-24.1								0.7	28.7	49.7	0.9		**20.0**				
	Swine (211)	2.4	**15.2**	10.8-20.9								1.4	20.4	60.7	2.4		**15.2**				
Quinolones																					
Ciprofloxacin	Chicken (994)	0.0	**0.0**	0.0-0.5	79.6	18.3	2.0	0.1													
	Turkey (271)	0.0	**0.0**	0.0-1.7	74.5	21.8	2.6		0.7	0.4											
	Cattle (439)	0.0	**0.0**	0.0-1.1	79.0	18.7	1.6	0.2		0.5											
	Swine (211)	0.0	**0.0**	0.0-2.2	81.5	17.5	0.9														
Nalidixic Acid	Chicken (994)	N/A	**0.1**	0-0.6							1.4	43.7	42.9	11.7	0.3		**0.1**				
	Turkey (271)	N/A	**1.1**	0.3-3.5								38.7	39.5	20.3	0.4		**1.1**				
	Cattle (439)	N/A	**0.7**	0.2-2.2							0.5	43.1	44.0	11.8		**0.2**	**0.5**				
	Swine (211)	N/A	**0.0**	0.0-2.2							0.9	37.4	49.3	11.8	0.5						
Tetracyclines																					
Tetracycline	Chicken (994)	1.4	**35.5**	32.5-38.6									63.1	1.4	**0.6**	**1.7**	**33.2**				
	Turkey (271)	0.4	**73.8**	68.1-78.8									25.8	0.4	**0.4**	**13.3**	**60.1**				
	Cattle (439)	0.7	**27.3**	23.2-31.8									72.0	0.7	**1.1**	**3.6**	**22.6**				
	Swine (211)	0.5	**54.5**	47.5-61.3									45.0	0.5	**1.9**	**12.3**	**40.3**				

[1] Percent of isolates with intermediate susceptibility

[2] Percent of isolates that were resistant

[3] 95% confidence intervals for percent resistant (%R) were calculated using the Wilson interval with continuity correction method

[4] 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.