

Table 16a. Antimicrobial Resistance among *Salmonella* Newport Isolates from Food Animals, by Year, 1997-2005

Year		1997	1998	1999	2000	2001	2002	2003	2004	2005	
Number of Isolates Tested	Chickens	0	1	7	5	8	6	7	0	6	
	Turkeys	0	1	4	6	16	10	19	7	5	
	Cattle	0	8	54	109	87	113	75	44	27	
	Swine	0	1	5	2	7	0	3	0	1	
Antimicrobial Class	Antimicrobial (Resistance Breakpoint)	Isolate Source									
Aminoglycosides	Amikacin	Chickens		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%
		Turkeys		0	0	0	0	0	0	0	0
		Cattle		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
		Swine		0	0	0	0	0	0	0	0
	Gentamicin	Chickens		100.0%	0.0%	20.0%	0.0%	0.0%	0.0%		16.7%
		Turkeys		1	0	1	0	0	0		1
		Cattle		0.0%	0.0%	16.7%	6.3%	0.0%	52.6%	14.3%	80.0%
		Swine		0	0	1	1	0	10	1	4
	Kanamycin	Chickens		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		33.3%
		Turkeys		0	0	0	0	10.0%	21.1%	14.3%	80.0%
		Cattle		0.0%	0.0%	9.2%	6.9%	15.9%	17.3%	25.0%	14.8%
		Swine		0	0	10	6	18	13	11	4
	Streptomycin	Chickens		0.0%	0.0%	0.0%	57.1%		0.0%		0.0%
		Turkeys		0	0	0	4		0		0
		Cattle		100.0%	0.0%	20.0%	37.5%	0.0%	85.7%		50.0%
		Swine		1	0	1	3	0	6		3
Aminopenicillins	Ampicillin	Chickens		0.0%	0.0%	0.0%	12.5%	0.0%	31.6%	14.3%	80.0%
		Turkeys		0	0	1	2	0	6	1	4
		Cattle		12.5%	37.0%	79.8%	73.6%	80.5%	84.0%	84.1%	81.5%
		Swine		1	20	87	64	91	63	37	22
Ampicillin	Chickens		0.0%	0.0%	50.0%	85.7%		100.0%		0.0%	
	Turkeys		0	0	1	6		3		0	
	Cattle		100.0%	0.0%	0.0%	37.5%	16.7%	85.7%		50.0%	
	Swine		1	0	0	3	1	6		3	
Ampicillin	Turkeys		0.0%	0.0%	0.0%	12.5%	0.0%	15.8%	28.6%	20.0%	
	Cattle		0	0	0	2	0	3	2	1	
	Swine		12.5%	37.0%	77.1%	70.1%	78.8%	82.7%	81.8%	85.2%	
			1	20	84	61	89	62	36	23	
Ampicillin	Chickens		0.0%	0.0%	0.0%	85.7%		100.0%		0.0%	
	Turkeys		0	0	0	6		3		0	
	Cattle		0.0%	0.0%	0.0%	85.7%		100.0%		0.0%	
	Swine		0	0	0	6		3		0	

Table 16b. Antimicrobial Resistance among Salmonella Newport Isolates from Food Animals, by Year, 1997-2005

Year		1997	1998	1999	2000	2001	2002	2003	2004	2005		
Number of Isolates Tested												
	Chickens	0	1	7	5	8	6	7	0	6		
	Turkeys	0	1	4	6	16	10	19	7	5		
	Cattle	0	8	54	109	87	113	75	44	27		
	Swine	0	1	5	2	7	0	3	0	1		
Antimicrobial Class	Antimicrobial (Resistance Breakpoint)	Isolate Source										
β-Lactam/β-Lactamase Inhibitor Combinations	Amoxicillin-Clavulanic Acid	Chickens		0.0%	0.0%	0.0%	37.5%	0.0%	85.7%		50.0%	
				0	0	0	3	0	6		3	
		Turkeys		0.0%	0.0%	0.0%	12.5%	0.0%	10.5%	14.3%	0.0%	
				0	0	0	2	0	2	1	0	
	Cattle		12.5%	37.0%	76.1%	69.0%	78.8%	81.3%	77.4%	81.5%		
			1	20	83	60	89	61	34	22		
	Swine		0.0%	0.0%	0.0%	85.7%		100.0%		0.0%		
			0	0	0	6		3		0		
	Cephalosporins	Ceftiofur	Chickens		0.0%	0.0%	0.0%	37.5%	0.0%	85.7%		50.0%
					0	0	0	3	0	6		3
			Turkeys		0.0%	0.0%	0.0%	12.5%	0.0%	10.5%	14.3%	0.0%
					0	0	0	2	0	2	1	0
		Cattle		12.5%	37.0%	76.1%	69.0%	78.8%	81.3%	77.3%	81.5%	
				1	20	83	60	89	61	34	22	
		Swine		0.0%	0.0%	0.0%	85.7%		100.0%		0.0%	
				0	0	0	6		3		0	
Ceftriaxone	Chickens		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		
			0	0	0	0	0	0		0		
	Turkeys		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
			0	0	0	0	0	0	0	0		
Cattle		0.0%	0.0%	0.9%	1.1%	0.9%	1.3%	11.4%	14.8%			
		0	0	1	1	1	1	5	4			
Swine		0.0%	0.0%	0.0%	0.0%		0.0%		0.0%			
		0	0	0	0		0		0			
Cephalothin	Chickens		0.0%	0.0%	0.0%	37.5%	0.0%	85.7%				
			0	0	0	3	0	6				
	Turkeys		0.0%	0.0%	0.0%	12.5%	0.0%	10.5%				
			0	0	0	2	0	2				
Cattle		12.5%	37.0%	74.3%	69.0%	78.8%	81.3%					
		1	20	81	60	89	61					
Swine		0.0%	0.0%	0.0%	85.7%		100.0%					
		0	0	0	6		3					
Cephamycins	Cefoxitin	Chickens				0.0%	37.5%	0.0%	71.4%		50.0%	
						0	3	0	5		3	
		Turkeys				0.0%	12.5%	0.0%	10.5%	14.3%	0.0%	
						0	2	0	2	1	0	
Cattle				73.4%	66.7%	77.9%	74.7%	77.3%	81.5%			
				80	58	88	56	34	22			
Swine				0.0%	85.7%		100.0%		0.0%			
					0	6	3		0			

Table 16c. Antimicrobial Resistance among Salmonella Newport Isolates from Food Animals, by Year, 1997-2005

Year		1997	1998	1999	2000	2001	2002	2003	2004	2005	
Number of Isolates Tested	Chickens	0	1	7	5	8	6	7	0	6	
	Turkeys	0	1	4	6	16	10	19	7	5	
	Cattle	0	8	54	109	87	113	75	44	27	
	Swine	0	1	5	2	7	0	3	0	1	
Antimicrobial Class	Antimicrobial (Resistance Breakpoint)	Isolate Source									
Folate Pathway Inhibitors	Sulfonamides	Chickens		100.0%	0.0%	0.0%	37.5%	0.0%	71.4%		50.0%
		Turkeys		1	0	0	3	0	5		3
		Cattle		0.0%	0.0%	16.7%	12.5%	0.0%	52.6%	14.3%	80.0%
		Swine		0	0	1	2	0	10	1	4
	Trimethoprim-Sulfamethoxazole	Chickens		12.5%	35.2%	73.4%	72.4%	74.3%	73.3%	84.1%	85.2%
		Turkeys		1	19	80	63	84	55	37	23
		Cattle		0.0%	0.0%	50.0%	85.7%		100.0%		0.0%
		Swine		0	0	1	6		3		0
Phenicol	Chloramphenicol	Chickens		0.0%	0.0%	0.0%	37.5%	0.0%	85.7%		50.0%
		Turkeys		0	0	0	3	0	6		3
		Cattle		0.0%	0.0%	0.0%	12.5%	0.0%	21.1%	14.3%	0.0%
		Swine		0	0	0	2	0	4	1	0
Quinolones	Ciprofloxacin	Chickens		12.5%	37.0%	78.9%	73.6%	77.9%	78.7%	77.3%	81.5%
		Turkeys		1	20	86	64	88	59	34	22
		Cattle		0.0%	0.0%	50.0%	85.7%		100.0%		0.0%
		Swine		0	0	1	6		3		0
	Nalidixic Acid	Chickens		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%
		Turkeys		0	0	0	0	0	0		0
		Cattle		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
		Swine		0	0	0	0		0		0
Tetracyclines	Tetracycline	Chickens		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%
		Turkeys		0	0	0	0	0	0	0	0
		Cattle		0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	0.0%	0.0%
		Swine		0	0	0	0		0		0
Tetracyclines	Tetracycline	Chickens		100.0%	0.0%	0.0%	37.5%	0.0%	85.7%		50.0%
		Turkeys		1	0	0	3	0	6		3
		Cattle		0.0%	0.0%	0.0%	12.5%	40.0%	36.8%	28.6%	60.0%
		Swine		0	0	0	2	4	7	2	3
Tetracyclines	Tetracycline	Chickens		12.5%	38.9%	80.7%	73.6%	80.5%	84.0%	84.1%	81.5%
		Turkeys		1	21	88	64	91	63	37	22
		Cattle		100.0%	20.0%	50.0%	85.7%		100.0%		0.0%
		Swine		1	1	1	6		3		0