

## National Antimicrobial Resistance Monitoring System Animal Isolates

**Table 1. Percent Resistance in *Salmonella* Isolates from Diagnostic<sup>a</sup> Dairy Cattle**

Antimicrobial	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Amikacin			0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.9
Amoxicillin/Clavulanic Acid			7.9	28.7	36.1	46.4	49.9	63.6	41.0	44.4
Ampicillin			67.4	61.4	71.8	66.8	62.9	73.6	54.2	50.0
Apramycin			1.1	3.2	2.8	Not Tested				
Cefoxitin			Not Tested	28.5	35.2	42.1	44.6	66.4	38.9	44.4
Ceftiofur			9.4	28.5	35.2	45.6	49.5	64.5	38.9	42.6
Ceftriaxone <sup>b</sup>			6.8	28.2	35.2	45.2	49.3	64.5	38.9	44.4
Cephalothin			11.3	29.8	38.2	47.3	50.5	Not Tested	Not Tested	Not Tested
Chloramphenicol			39.4	38.6	50.9	57.8	56.4	57.3	45.1	37.0
Ciprofloxacin			0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
Gentamicin			4.3	9.6	4.2	20.4	7.4	15.5	6.9	8.3
Imipenem			Not Tested	Not Tested	0.6	Not Tested				
Kanamycin			45.1	43.4	38.8	46.5	34.7	38.2	41.7	37.0
Nalidixic Acid			0.2	0.0	0.6	1.5	0.4	0.0	0.7	0.0
Streptomycin			67.2	58.0	67.7	66.4	63.2	69.1	49.3	38.0
Sulfamethoxazole (Sulfizoxazole in 2004)			68.1	59.3	73.3	61.5	51.6	73.6	57.6	51.9
Tetracycline			66.2	60.9	71.1	67.5	65.5	73.6	59.0	58.3
Ticarillin			Not Tested							
Trimethoprim/ Sulfamethoxazole			7.9	14.1	8.1	11.8	6.7	12.7	12.5	12.0

<sup>a</sup> Isolates obtained from the National Veterinary Service Laboratories (the majority of isolates were from primary or secondary infections) and from participating Sentinel Site Diagnostic Laboratories.

<sup>b</sup> In this table, the revised ceftriaxone breakpoints from the CLSI M100-S20 document, published in January 2010, were used for interpretation. In previous reports the ceftriaxone breakpoints from the CLSI M100-S19 were used.

**Table 2. Number of *Salmonella* Isolates Tested from Diagnostic Dairy Cattle**

Number tested	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Dairy Cattle	0	0	470	376	529	932	475	110	144	108