

## National Antimicrobial Resistance Monitoring System Animal Isolates

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

Antimicrobial	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Amikacin	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
Amoxicillin/Clavulanic Acid	1.6	8.1	4.5	20.4	19.6	26.5	35.3	38.5	28.4	39.5
Ampicillin	32.2	42.1	32.9	45.3	39.5	45.6	45.5	50.8	46.5	44.5
Apramycin	0.5	0.9	0.9	3.3	2.6	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
Cefoxitin	Not Tested	Not Tested	Not Tested	19.8	19.3	23.8	29.7	35.6	28.1	39.1
Ceftiofur	0.5	8.1	4.5	18.9	19.6	24.9	35.6	37.4	28.4	39.5
Ceftriaxone <sup>b</sup>	0.5	7.8	4.5	19.1	19.6	24.9	35.0	39.2	28.4	39.5
Cephalothin	1.6	9.0	7.5	21.6	21.0	27.6	35.6	Not Tested	Not Tested	Not Tested
Chloramphenicol	5.5	14.3	16.0	29.6	30.8	34.4	44.1	47.2	39.5	42.7
Ciprofloxacin	0.0	0.0	0.0	0.2	0.0	0.5	0.0	0.0	0.0	0.0
Gentamicin	2.2	4.7	4.2	8.9	8.9	9.8	7.1	11.0	6.4	4.6
Imipenem	Not Tested	Not Tested	Not Tested	Not Tested	0.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
Kanamycin	29.0	36.8	26.0	34.7	26.2	30.1	26.0	27.9	28.4	30.6
Nalidixic Acid	0.0	0.0	0.2	2.0	2.0	2.2	1.4	2.2	0.7	1.1
Streptomycin	33.9	43.6	40.7	46.4	47.8	50.0	46.9	54.1	46.5	46.4
Sulfamethoxazole (Sulfizoxazole in 2004)	30.6	43.9	34.9	43.8	46.4	44.0	44.4	55.0	49.2	46.3
Tetracycline	36.6	43.0	37.5	47.8	52.2	50.8	50.8	57.1	49.2	48.0
Ticarcillin	31.7	39.9	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
Trimethoprim/ Sulfamethoxazole	1.6	5.9	5.1	10.0	8.1	10.7	7.3	7.2	8.0	14.9

<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 Cattle**

Number tested	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
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Cattle	183	321	550	450	347	366	354	545	299	281
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