

## National Antimicrobial Resistance Monitoring System - Animal Arm

**Table 1. Percent Resistance in *Salmonella* from Slaughter<sup>a</sup> Swine**

Antimicrobial	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of Isolates Tested	111	793	876	451	418	379	211	308	301	304	211	111	120	111	90
Amikacin	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	Not Tested
Amoxicillin/Clavulanic Acid	0.0	0.4	1.0	1.8	2.6	3.7	3.8	1.9	4.3	2.3	3.3	4.5	4.2	3.6	2.2
Ampicillin	16.2	12.9	10.8	18.8	11.7	13.7	12.8	16.2	13.6	11.5	18.0	14.4	19.2	17.1	11.1
Apramycin	2.7	1.4	1.8	0.4	0.7	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
Azithromycin	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	0.0
Cefoxitin	Not Tested	Not Tested	Not Tested	1.3	2.2	2.9	4.3	1.9	3.7	2.0	2.8	4.5	4.2	1.8	2.2
Ceftiofur	0.0	0.1	1.9	1.3	2.2	3.2	4.3	1.9	3.7	2.0	2.8	4.5	4.2	1.8	2.2
Ceftriaxone	0.0	0.1	1.3	1.3	2.2	2.9	4.3	1.6	3.7	1.6	2.4	4.5	4.2	1.8	2.2
Cephalothin	0.0	0.1	0.8	2.4	2.2	3.2	3.8	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
Chloramphenicol	11.7	8.4	8.0	12.4	7.7	10.0	8.5	12.7	10.6	7.9	15.2	9.9	15.0	8.1	4.4
Ciprofloxacin <sup>b</sup>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gentamicin	0.9	0.8	1.1	1.3	1.4	0.8	0.5	1.3	2.7	2.0	0.9	2.7	0.0	2.7	0.0
Imipenem	Not Tested	Not Tested	Not Tested	Not Tested	0.0	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
Kanamycin	11.7	7.2	6.7	9.3	6.9	4.2	5.7	3.9	5.0	8.6	7.1	3.6	4.2	10.8	3.3
Nalidixic Acid	0.0	0.0	0.0	0.2	0.0	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Streptomycin	27.9	29.4	29.3	39.2	35.6	40.1	30.8	36.4	36.5	26.3	27.0	29.7	29.2	31.5	18.9
Sulfonamides (Sulfamethoxazole: 1997-2003, Sulfizoxazole: 2004-2011)	34.2	29.0	30.7	35.7	34.9	34.6	25.1	37.0	32.9	26.6	30.8	31.5	30.8	28.8	17.8
Tetracycline	52.3	47.5	48.4	54.3	53.1	57.8	43.1	58.8	54.8	62.8	54.5	51.4	53.3	51.4	41.1
Ticarcillin	16.2	12.9	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
Trimethoprim/ Sulfamethoxazole	1.8	0.3	1.1	0.9	0.0	1.6	2.4	1.6	2.3	2.0	1.9	2.7	2.5	1.8	0.0

<sup>a</sup> Isolates obtained from slaughter processing plants (carcass swabs & ground product).

<sup>b</sup> In this table, the revised ciprofloxacin breakpoints from the CLSI M100-S22 document, published in January 2012, were used for interpretation. In previous reports the ciprofloxacin breakpoints from the CLSI M100-S21 were used.