

Table 1 Primer sequences for PCR amplifications used in this study

Target	Sense ^a	Primer sequence (5'-to-3')	Reference
Gene cassette	F	GGC ATC CAA GCA GCA AGC	19
	R	AAG CAG ACT TGA CCT GAT	
int1	F	GTGGATGGCGGCCTGAAGCC	33
	R	ATTGCCCCAGTCGGCAGCG	
sul1	F	CTT CGA TGA GAG CCG GCG GC	42
	R	GCA AGG CGG AAA CCC GCG CC	
qacE Δ 1	F	ATC GCA ATA GTT GGC GAA GT	36
	R	CAA GCT TTT GCC CAT GAA GC	
bla _{TEM}	F	GTA TGG ATC CTC AAC ATT TCC GTG TCG	43
	R	ACC AAA GCT TAA TCA GTG AGG CA	
bla _{PSE}	F	CGC TTC CCG TTA ACA ACT AC	44
	R	CTG GTT CAT TTC AGA TAG CG	
bla _{CMY-2}	F	AAC ACA CTG ATT GCG TCT GAC	45
	R	CTG GGC CTC ATC GTC AGT TA	
tetA	F	GCT ACA TCC TGC TTG CCT TC	5
	R	CAT AGA TCG CCG TGA AGA GG	
tetG	F	GCT CGG TGG TAT CTC TGC TC	5
	R	AGC AAC AGA ATC GGG AAC AC	

^aF, forward; R, reverse.

Table 2 Summary of the prevalence among *Salmonella* serotypes of resistance to a panel of eleven antimicrobial agents

<i>Serotype</i>	No. tested	Number of strains resistant to specific antibiotics											No. susceptible strains
		<u>AMC</u>	<u>AML</u>	<u>AMP</u>	<u>CN</u>	<u>CXM</u>	<u>EFT</u>	<u>FY</u>	<u>N</u>	<u>OT</u>	<u>S</u>	<u>SXT</u>	
Anatum	13	0	1	1	1	0	2	2	4	1	1	0	7
Uganda	10	0	0	0	0	0	1	1	1	1	0	0	8
Newport	6	0	0	0	0	1	2	0	1	1	0	0	4
Typhimurium	5	0	3	3	0	0	2	0	0	2	0	1	1
Gaminara	4	0	0	0	1	0	3	1	1	0	0	0	1
Derby	3	0	0	0	0	0	0	0	0	0	0	0	3
Sinstorf	2	0	0	0	0	0	0	0	0	0	0	0	2
Infantis	2	2	2	2	0	0	0	0	0	2	0	0	0
Muenchen	2	0	0	0	0	0	0	0	0	0	0	0	2
Isangi	2	0	0	0	0	0	0	0	0	0	0	0	2
Seftnberg	2	0	0	0	0	0	1	1	0	0	0	0	1
Others ^a	21	0	0	0	1	0	1	1	2	1	1	0	17
Total	72	2	6	6	3	1	12	6	9	8	2	1	48

AMC, amoxicillin/clavulanic acid; AML, amoxicillin, AMP, ampicillin, CN, gentamycin; CXM, Cefuroxime;

EFT, ceftiofur; FY, framycetin; N, neomycin; OT, oxytetracycline; S, streptomycin; SXT, trimethoprim/sulfamethoxazole.

^aOthers include strains for which only one serotype was tested : Saintpaul, Braenderup, Sandiego, Agona, Rubislaw and Dusseldorf. This group also includes strains whose serotype was not identified (n = 15).

Table 3 Phenotypic and molecular characteristics of antibiotic resistant strains of Salmonella isolated from foods

Serotype	Location	Source	R- profile	Gene cassettes (kb) ^a	Genes associated with β-lactam and tetracycline resistance
Uganda	Monteria	Sausage	EFT	1.4	<u>cmv-2</u>
Agona	Monteria	Ground meat	EFT	nd	cmv-2
Typhimurium	Monteria	Sausage	EFT	1.0	<u>pse</u>
Newport	Monteria	Sausage	EFT	1.4	cmv-2
Gaminara	Monteria	Ground meat	EFT	nd	cmv-2
Gaminara	Monteria	Cheese	EFT	1.4	cmv-2
Anatum	Barranquilla	Ground meat	EFT	nd	nd
Anatum	Monteria	Pig	N	1.4	-
Anatum	Monteria	Sausage	N	1.4	-
Sandiego	Barranquilla	Ground meat	N	nd	-
Anatum	Barranquilla	Ground meat	AML	nd	cmv-2
Unidentified	Barranquilla	Morsilla	S	nd	-
Seftnberg	Monteria	Meat	EFT, FY	nd	nd
Anatum	Barranquilla	Ground meat	FY, N	nd	-
Typhimurium	Monteria	Sausage	AMP, AML, EFT	1.2, 1.0	cmv-2, pse
Typhimurium	Monteria	Pig	AMP, AML, OT	1.0	cmv-2, pse, tetG
Uganda	Barranquilla	Ground meat	FY, N, OT	nd	nd
Gaminara	Monteria	Sausage	CN, EFT, FY, N	1.4	-
Infantis	Monteria	Chicken liver	AMP, AMC, AML, OT	nd	nd
Infantis	Monteria	Cheese	AMP, AMC, AML, OT	nd	nd
Typhimurium	Barranquilla	Chicken	AML, AMP, OT, SXT	2.6, 1.2	<u>tetA</u>
Newport	Cartagena	Egg	CXM, EFT, N, OT	1.4	tetA
Rubislaw	Cartagena	Cheese	CN, FY, N, OT	1.4, 0.7	tetA
Anatum	Barranquilla	Cheese	AMP, CN, EFT, FY, N, OT, S	2.6, 1.2	cmv-2, tetA

AMC, amoxicillin/clavulanic acid; AML, amoxicillin, AMP, ampicillin, CN, gentamycin; CXM, Cefuroxime; EFT, ceftiofur;

FY, framycetin; N, neomycin; OT, oxytetracycline; S, streptomycin; SXT, trimethoprim/sulfamethoxazole.

^aApproximate size of integrons based on comparison with DNA ladder. nd = not detected; (-) = not performed.