Materials and methods S1

Origin and sources of S. Infantis isolates

North Italy includes Emilia region; Central Italy includes Umbria, Marche, and Lazio regions; South Italy includes Abruzzo, Molise and Sicilia regions. The sources of sampling are classified as follows: Farm, includes faeces and litter; Environmental swabs at slaughter include conveyor belt swab, floor slaughter swab, conveyor belt swab meat skewer, conveyor belt swab breast, conveyor belt swab drumstick, conveyor belt swab meat skewer; Samples at slaughter include neck skin, chicken liver and caecal content; Derived meat products include chickens wings, minced meat, breast, thigh, meat rolle, sliced chicken breast, chicken drumstick, meat skewer, chicken drumstick, grilled chicken, portioned chicken and chicken sausage.

Table S1. Resistance according to years (%) and result of pairwise comparisons.

A 42		Sig. of overall			
Antimicrobials	2016	2017	2018	2019	test*
AMP	100.0a	100.0a	47.4b	87.5a	p < 0.001
AMC	26.7	7.4	0.0	29.2	p = 1.000
AMS	20.0a	48.1ab	31.6a	70.8b	p = 0.002
CAZ	0.0	33.3	5.3	0.0	p = 1.000
CIP	46.7a	14.8ab	15.8ab	4.2b	p = 0.033
CL	100.0a	92.6a	47.4b	70.8ab	p < 0.001
CLOR	40.0	3.7	0.0	45.8	p = 1.000
CTX	100.0a	92.6a	47.4b	83.3a	p < 0.001
FEP	86.7	85.2	63.2	75.0	p = 0.252
FOX	6.7	7.4	5.3	0.0	p = 1.000
GENT	6.7	3.7	0.0	50.0	p = 1.000
IMP	0.0	0.0	5.3	0.0	p = 1.000
MEM	0.0	11.1	21.1	0.0	p = 1.000
NA	100.0	100.0	94.7	95.8	p = 1.000
SUL	93.3	96.3	68.4	95.8	p = 1.000
TE	100.0	100.0	94.7	91.7	p = 1.000

^{*} Overall Test results for Time effect of Models including Matrix and Time (year) effects, *p* value from Wald Chi-square. Resistances were categorized in a binary variable as resistant (=1) or sensitive (=0, including sensitive and intermediate). Values in bold are statistically significant at an alpha of 0.05.

 $\textbf{Table S2.} \ \ \text{Resistance according to matrix (\%) and result of pairwise comparisons.}$

Matrices								
Antimicrobials	Farm	Slaughter	Derived Meat Products	Environmental samples	Sig. of overall test*			
AMP	86.7	88.9	80.0	77.8	p = 1.000			
AMC	26.7	19.4	8.0	0.0	p = 1.000			
AMS	46.7	52.8	32.0	55.6	p = 0.280			
CAZ	20.0	0.0	24.0	11.1	p = 1.000			
CIP	33.3	16.7	12.0	11.1	p = 0.603			
CL	86.7	80.6	76.0	55.6	p = 1.000			
CLOR	20.0	41.7	0.0	0.0	p = 1.000			
CTX	93.3	83.3	76.0	66.7	p = 1.000			
FEP	86.7	75.0	80.0	66.7	p = 0.715			
FOX	13.3	2.8	0.0	11.1	p = 1.000			
GENT	6.7	36.1	0.0	0.0	p = 1.000			
IMP	6.7	0.0	0.0	0.0	p = 1.000			
MEM	26.7	0.0	0.0	33.3	p = 1.000			
NA	93.3	100.0	100.0	88.9	p = 1.000			
SUL	100.0	91.7	84.0	77.8	p = 0.126			
TE	100.0	94.4	100.0	88.9	p = 1.000			

^{*} Overall Test results for Time effect of Models including Matrix and Time (year) effects, *p* value from Wald Chi-square. Resistances were categorized in a binary variable as resistant (=1) or not resistant (=0, including sensitive and intermediate). Values in bold are statistically significant at an alpha of 0.05.