

Table S1. Primer sequences and bands ID for the molecular typing of *S. enterica*.

Reaction	Primer name	Primers sequence (5'-3')	Product size (bp)	Band ID	Access numbers
Reaction 1	STM0716F STM0716R	AACCGCTGCTTAATCCTGATGG R: TGGCCCTGAGCCAGCTTTT	187	A	CP098834.1
	STM1350F STM1350R	TCAAAATTACCGGGCGCA TTTTAAGACTACATACGCGCATGAA	171	B	CP098834.1
	STM0839F STM0839R	TCCAGTATGAAACAGGCAACGTGT GCGACGCATTGTTTCGATTGAT	137	C	CP098741.1
	STM4525F STM4525R	TGGCGGCAGAAGCGATG CTTCATTCAAGCAACTGACGCTGAG	114	D	CP098741.1
	STM4538F STM4538R	TGGTCACCGCGCGTGAT CGAACGCCAGGTTTCATTTGT	93	E	CP098741.1
Reaction 2	STY0311 STY0312	TGGTATGGTTAAGCGGAGAATGG GAGAGTCATAGCCACACCAAAG	301	F	CP093132.1
	STY0346 STY0347	GGCTGGAGCAGCCTTACAAAA AAGAGTTGCCTGGCTGGTAAAA	262	G	CP098831.1
	STY2299 STY2300	AATCCCCCCCCCTCAAAAA GGTACACGTTTACTGTTTGCTGGA	220	H	CP097262.1
	STM3845F STM3845R	ATATCTCATCGTCTCCTTTTCGTGT GAAGGTCCGGATAGGCATTCT	181	I	CP098741.1
	STY2349F STY2349R	AATTACGGAGCAGCAGATCGAGG TGCGGCCAGCTGTTCAAAA	124	J	CP096171.1
Reaction 3	PT4F PT4R	GCGATATATAAGTACGACCATCATGG GCACGCGGCACAGTTAAAA	225	K	CP097262.1
	STM2150F STM2150R	CATAACCCGCCTCGACCTCAT AGATGTCGTGAGAAGCGGTGG	101	L	CP098741.1

Table S2. Primer sequences for detection of virulence-associated genes.

Gene	Primers sequence (5'-3')	Product size (bp)	Annealing T°	Access numbers	Reference
<i>pefA</i>	F: CCTGTGACCTGACCACTTCTG R: GTAAGCCACTGCGAAAGATG	418	51°C	CP088139.1	(1)
<i>spvC</i>	F: CTCCTTGCACAACCAAATGCG R: TGTCTCTGCATTTACCAACCATC	570	53°C	CP088135.1	(1)
<i>sirA</i>	F: TGCGCCTGGTGACAAAACCTG R: ACTGACTTCCCAGGCTACAGCA	313	55°C	CP098831.1	(1)
<i>gipA</i>	F: ACGACTGAGCAGGCTGAG R: TTGGAAATGGTGACGGTAGAC	518	58°C	CP098741.1	(1)
<i>SEN1417</i>	F: GATCGCTGGCTGGTC R: CTGACCGTAATGGCGA	670	58°C	CP050716.1	(2)
<i>pagK</i>	F: ACCATCTTCACTATATTCTGCTC R: ACCTCTACACATTTTAAACCAATC	151	60°C	CP098741.1	(3)
<i>prot6e</i>	F: GCCTAAGGTTAGTGTGACTCTC R: CTAGCAGCCGTTGGTATCC	579	50°C	CP092322.1	(1)

1. Huehn S, La Ragione RM, Anjum M, Saunders M, Woodward MJ, Bunge C, et al. Virulotyping and Antimicrobial Resistance Typing of *Salmonella enterica* Serovars Relevant to Human Health in Europe. *Foodborne Pathogens and Disease*. 2010 May;7(5):523–35.
2. Pan Z, Carter B, Núñez-García J, AbuOun M, Fookes M, Ivens A, et al. Identification of genetic and phenotypic differences associated with prevalent and non-prevalent *Salmonella* Enteritidis phage types: analysis of variation in amino acid transport. *Microbiology*. 155(10):3200–13.
3. Huehn S, Bunge C, Junker E, Helmuth R, Malorny B. Poultry-Associated *Salmonella enterica* subsp. *enterica* Serovar 4,12:d:– Reveals High Clonality and a Distinct Pathogenicity Gene Repertoire. *Applied and Environmental Microbiology*. 2009 Feb 15;75(4):1011–20.

Table S3. Serotypes and genotypes of *S. enterica* strains isolated from pigs.

Serotype (N° of isolates)	Source (farm)	Genotypic banding pattern	Genotype	Number of isolates (%)
<i>S. Infantis</i> (7)	PC1	ABGL	G1	2 (4.3)
	PC1	ABF	G2	2 (4.3)
	PC1	ABHI	G8	1 (2.2)
	PC1	BI	G9	1 (2.2)
	PC1	BCDGL	G12	1 (2.2)
<i>S. Derby</i> (7)	PC4	ABCJL	G3	2 (4.3)
	PC4	ABCEJL	G5	5 (10.9)
<i>S. Group B</i> (3)	PC4	ABCEJ	G6	1 (2.2)
	PC4	ACJ	G7	1 (2.2)
	PC3	ABCDHIL	G15	1(2.2)
<i>S. Typhimurium</i> (28)	PC5	BCEJL	G4	1 (2.2)
	PC3	CDJL	G10	1 (2.2)
	PC3	ACDHIJ	G13	1 (2.2)
	PC3	BCHIL	G14	2 (4.3)
	PC5	ABCDHIL	G15	1 (2.2)
	PC3	BCDHIL	G16	2 (4.3)
	PC3	ACDHIL	G17	6 (13.0)
	PC3-PC4	CDHIL	G18	7 (15.2)
	PC3	BCDIL	G19	3 (6.5)
	PC3	CDIL	G20	4 (8.7)
<i>S. enterica</i> subsp. <i>enterica</i> rough strain (1)	PC1	BCDGIL	G11	1 (2.2)

Table S4. Serotypes and genotypes of *S. enterica* strains isolated from chicken.

Serotype (N° of isolates)	Source (Farm)	Genotypic banding pattern	Genotype	Number of isolates (%)
S. Enteritidis (12)	SV	ACDGJ	G44	2 (3.5)
	SV	BCDHJ	G45	1 (1.8)
	SV	BCEFJL	G46	1 (1.8)
	SV	BCEGJ	G47	1 (1.8)
	SV	BCG	G48	1 (1.8)
	LM	BCGH	G49	1 (1.8)
	SV	BCI	G50	1 (1.8)
	LM	BFGK	G51	1 (1.8)
	SV	C	G52	3 (5.2)
S. Infantis (32)	LM	BEF	G22	1 (1.8)
	LM	AEFGK	G23	2 (3.5)
	LM	AEFGKL	G24	1 (1.8)
	LM	AFGKL	G25	1 (1.8)
	SV(3)-LM(1)	AF	G26	4 (7.0)
	SV	AG	G27	6 (10.5)
	SV	BG	G28	5 (8.9)
	LM	ACEGK	G29	1 (1.8)
	LM	ACGK	G30	5 (8.8)
	LM	ACG	G31	2 (3.5)
	LM	ACEGKL	G32	1 (1.8)
	LM	ADGK	G33	1 (1.8)
	LM	BDEGKL	G34	1 (1.8)
	LM	ACGHK	G35	1 (1.8)
S. Typhimurium (13)	LC	ABCDFIKL	G36	5 (8.8)
	LC	ABCDFHIKL	G37	2 (3.5)
	LC	ACDFIKL	G38	1 (1.8)
	LC	ABCDIKL	G39	1 (1.8)
	LC	AIL	G40	1 (1.8)
	LC	ABDFIKL	G41	1 (1.8)
	LC	ACDIL	G42	1 (1.8)
	LC	BEFG	G43	1 (1.8)

Table S5. Phenotypic resistance profiles detected in *S. enterica* strains isolated from pigs.

Resistance profile	Number of strains (%)
TE-SF	19 (41.3)
AZM-TE-ENR-NA-SXT-C	1 (2.2)
ENR	2 (4.3)
ENR-NAL	4 (8.7)
TE-SXT-W-SF-C	1 (2.2)
EFT-CFR-AZM-TE-ENR-NA-SXT-W-SF-C-FOS	1 (2.2)
SF	1 (2.2)
AZM-TE-SF	1 (2.2)
NA	2 (4.3)
TE	1 (2.2)

AMP: ampicillin, AMC: amoxicillin + clavulanic acid, CFR: cefadroxil, CAZ: ceftazidime; EFT: ceftiofur; EFT, CRO: ceftriaxone, CIP: ciprofloxacin, CN: gentamicin, NA: nalidixic acid, SXT: sulfamethoxazole + trimethoprim, TE: tetracycline, S: streptomycin, AZM: azithromycin, ENR: enrofloxacin, W: trimethoprim, SF: sulfisoxazole, C: chloramphenicol, FOS: fosfomicin.

Table S6. Phenotypic resistance profiles detected in *S. enterica* strains isolated from chickens.

Resistance profile	Number of strains (%)
NA	2 (3.5)
CFR-NA	4 (7.0)
CRO-CFR	1 (1.8)
NA-SF	1 (1.8)
TE-NA	1 (1.8)
EFT-CFR-NA	1 (1.8)
ENR-NA-SF	1 (1.8)
CFR-ENR-NA	1 (1.8)
CFR-NA-SF	1 (1.8)
TE-NA-SF	1 (1.8)
AZM-TE-NA	1 (1.8)
EFT-CRO-CFR-SF	1 (1.8)
AMP-CFR-ENR-NA	1 (1.8)
CFR-TE-NA-SF	1 (1.8)
AMP-TE-NA-C	1 (1.8)
AMP-CFR-TE-NA	1 (1.8)
EFT-CFR-CIP-ENR-NA	3 (5.3)
CFR-TE-ENR-NA-SF	1 (1.8)
TE-NA-SXT-W-SF	2 (3.5)
EFT-CRO-CFR-CIP-ENR-NA	1 (1.8)
CN-TE-NA-SXT-W-SF	1 (1.8)
AMP-AMC-CFR-TE-NA-C	1 (1.8)
AMP-CFR-AZM-CIP-ENR-NA-SF	1 (1.8)
EFT-CRO-CFR-AZM-CIP-ENR-NA	1 (1.8)
CN-TE-NA-SXT-W-SF-C	1 (1.8)
EFT-CFR-AZM-CIP-ENR-NA-SF	1 (1.8)
CFR-CN-TE-NA-SXT-W-SF	1 (1.8)
CFR-CN-TE-NA-SF-C-FOS	1 (1.8)
CFR-TE-NA-SXT-W-SF-C	1 (1.8)
AMP-AMC-CFR-S-TE-NA-C	1 (1.8)
CFR-CN-TE-NA-SXT-W-SF-C	1 (1.8)
CN-TE-NA-SXT-W-SF-C-FOS	2 (3.5)
EFT-CRO-CFR-S-AZM-CIP-ENR-NA-SF	1 (1.8)
EFT-CN-TE-NA-SXT-W-S-C-FOS	1 (1.8)
AMP-AMC-CFR-TE-NA-SXT-W-SF-C	1 (1.8)
AMP-EFT-CRO-CFR-CN-TE-NA-SF-C-FOS	1 (1.8)
AMC-EFT-CN-TE-NA-SXT-W-SF-C-FOS	1 (1.8)
AMP-AMC-EFT-CRO-CFR-CN-TE-NA-SF-C	1 (1.8)
AMP-EFT-CRO-CFR-CN-TE-NA-SXT-W-SF-FOS	1 (1.8)
AMP-AMC-EFT-CFR-S-TE-NA-SXT-W-SF-C	1 (1.8)
AMP-EFT-CRO-CFR-CN-TE-NA-SXT-W-SF-C-FOS	3 (5.3)
AMP-EFT-CRO-CFR-CN-TE-ENR-NA-SXT-W-SF-FOS	1 (1.8)
AMP-EFT-CAZ-CRO-CFR-CN-TE-NA-SXT-W-SF-C-FOS	1 (1.8)
AMP-EFT-CRO-CFR-CN-AZM-TE-NA-SXT-W-SF-C-FOS	1 (1.8)
AMP-AMC-EFT-CRO-CFR-CN-TE-NA-SXT-W-SF-C-FOS	1 (1.8)
AMP-EFT-CAZ-CRO-CFR-CN-AZM-TE-NA-SXT-W-SF-C-FOS	1 (1.8)

AMP: ampicillin, AMC: amoxicillin + clavulanic acid, CFR: cefadroxil, CAZ: ceftazidime; EFT: ceftiofur; EFT, CRO: ceftriaxone, CIP: ciprofloxacin, CN: gentamicin, NA: nalidixic acid, SXT: sulfamethoxazole + trimethoprim, TE: tetracycline, S: streptomycin, AZM: azithromycin, ENR: enrofloxacin, W: trimethoprim, SF: sulfisoxazole, C: chloramphenicol, FOS: fosfomycin.

Table S7. Virulotypes detected in *S. enterica* strains isolated from pigs.

Virulotype	Number of strains (%)
<i>pagK</i>	2 (4.3)
<i>pagK-sirA</i>	6 (13.0)
<i>sirA-pefA</i>	2 (4.3)
<i>spvC-pagK-pefA</i>	2 (4.3)
<i>pagK-sirA-pefA</i>	3 (6.5)
<i>spvC-pagK-sirA</i>	2 (4.3)
<i>pagK-sirA-gipA-pefA</i>	5 (10.9)
<i>spvC-pagK-sirA-pefA</i>	3 (6.5)
<i>spvC-pagK-sirA-gipA-pefA</i>	6 (13.0)
<i>pagK-sirA-gipA-SEN1417-pefA</i>	2 (4.3)
<i>spvC-pagK-sirA-gipA-SEN1417</i>	1 (2.2)
<i>spvC-pagK-sirA-gipA-SEN1417-pefA</i>	12 (26.1)

Table S8. Virulotypes detected in *S. enterica* strains isolated from chickens.

Virulotype	Number of strains (%)
<i>SEN1417</i>	5 (8.8)
<i>pefA</i>	2 (3.5)
<i>sirA</i>	2 (3.5)
<i>pagK</i>	12 (21.0)
<i>SEN1417-pefA</i>	4 (7.0)
<i>sirA-prot6e</i>	3 (5.2)
<i>pagK-sirA</i>	2 (3.5)
<i>pagK-SEN1417</i>	4 (7.0)
<i>spvC-pagK</i>	1 (1.8)
<i>pagK-pefA</i>	5 (8.8)
<i>pagK-prot6e</i>	1 (1.8)
<i>pagK-gipA-pefA</i>	1 (1.8)
<i>pagK-sirA-prot6e</i>	3 (5.2)
<i>pagK-SEN1417-prot6e</i>	1 (1.8)
<i>spvC-pagK-sirA</i>	1 (1.8)
<i>spvC-pagK-prot6e</i>	1 (1.8)
<i>pagK-gipA-SEN1417-pefA</i>	1 (1.8)
<i>spvC-pagK-sirA-prot6e</i>	1 (1.8)
<i>pagK-gipA-SEN1417-prot6e</i>	1 (1.8)
<i>spvC-pagK-gipA-SEN1417-pefA</i>	1 (1.8)
<i>spvC-sirA-gipA-SEN1417-pefA</i>	1 (1.8)
<i>spvC-pagK-sirA-gipA-SEN1417</i>	1 (1.8)
<i>pagK-sirA-gipA-SEN1417-pefA</i>	1 (1.8)
<i>pagK-sirA-gipA-SEN1417-prot6e</i>	1 (1.8)
<i>pagK-sirA-SEN1417-prot6e-pefA</i>	1 (1.8)

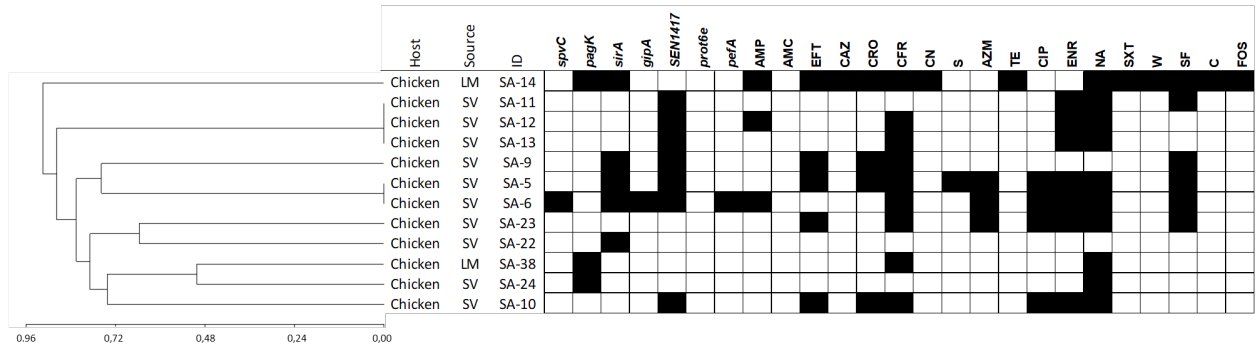


Figure S1. Dendrogram showing genetic similarities (%) between *Salmonella enterica* serotype Enteritidis isolates analyzed using multiplex PCR. Detection of virulence-associated genes and antimicrobial resistance phenotypes are depicted as black squares when present. The dendrogram was constructed using a hierarchical clustering, using the average linkage method and Jaccard's distance