

Table S1: Antibigram analysis of the 50 human *Salmonella* serovars against the 28 tested antimicrobial agents

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Table S2: Antibigram analysis of the 50 poultry *Salmonella* serovars against the 28 tested antimicrobial agents

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Table S3: Prevalence of MDR isolates among human, poultry serovars and the standard strain.

Code	Serovar	Ampicillin	Oxytetracycline	Erythromycin	Trimoxazole/sulphmethoprim	Chloramphenicol	Cefotaxime	Ciprofloxacin	No. of R
		AMP 10	O 30	E 15	COT 25	C 30	CTX 30	CIP 5	
H1	S. Typhimurium	R	R	R	S	S	R	S	4
H2		R	R	R	R	I	R	S	5
H3		R	I	R	S	S	R	S	3
H4		R	I	R	S	S	R	S	3
H5		R	I	R	S	R	R	S	4
H6		R	I	R	S	S	R	S	3
H7		R	I	R	S	R	R	S	4
H8		R	I	R	S	S	R	S	3
H9		R	R	R	S	S	R	S	4
H10		S	R	R	S	I	R	S	3
H11	S. Enteritidis	R	R	R	S	S	R	S	4
H12		R	R	R	S	S	R	S	4
H13		R	R	R	R	S	R	S	5
H14		R	R	R	S	S	R	S	4
H15		R	S	R	R	S	R	S	4
H16		R	R	R	S	S	R	S	4
H17		R	R	R	S	S	R	S	4
H18		R	R	R	S	S	R	S	4
H19	S. Lumberhurst	R	R	R	S	I	R	S	4
H20		R	R	R	S	S	R	S	4
H21		R	R	R	S	I	R	S	4
H22		R	R	R	S	S	R	S	4
H23		R	R	R	S	I	R	S	4
H24		R	R	R	S	S	R	S	4
H25		R	R	R	S	I	R	S	4
H26		R	R	R	S	S	R	S	4
H27	S. Tumodi	R	I	R	S	S	R	S	3
H28		R	R	R	I	R	R	S	5
H29		R	R	R	S	I	R	S	4
H30		R	I	R	S	S	R	S	3
H31	S. Tesive	R	S	R	S	S	R	S	3
H32		R	I	R	S	R	R	S	4
H33		R	S	R	S	S	R	S	3
H34		R	I	R	S	R	R	S	4
H35	S. Butontan	R	S	R	S	S	R	S	3
H36		R	R	R	S	R	R	S	5
H37		R	I	R	S	S	R	S	3
H38	S. Antum	R	R	R	S	I	R	S	4

H39		R	R	R	S	I	R	S	4
H40		R	R	R	S	I	R	S	4
H41	S. Taksony	R	R	R	I	R	R	S	5
H42		R	R	R	I	R	R	S	5
H43	S. Hull	R	I	R	S	S	R	S	3
H44		R	S	R	S	S	R	S	3
H45	S. Agama	R	R	R	S	I	R	S	4
H46		R	R	R	S	I	R	S	4
H47	S. Dublin	R	R	R	S	I	R	S	4
H48		R	R	R	S	I	R	S	4
H49	S. Blegdam	R	R	R	I	S	R	S	4
H50		R	R	R	I	S	R	S	4
STD	S. Poona standard	R	R	R	S	I	R	S	4
A51	S. Typhimurium	R	R	R	S	S	I	S	3
A52		R	R	R	I	S	R	S	4
A53	S. Enteritidis	R	R	R	S	S	R	S	4
A54		R	R	R	R	S	R	S	4
A55		R	R	R	R	S	R	S	5
A56		R	R	R	R	S	R	S	5
A57		R	R	R	R	S	R	S	5
A58	S. Lumberhurst	R	R	R	S	S	R	S	4
A59	S. Tsevie	R	R	R	S	I	I	S	3
A60	S. Butontan	R	R	R	I	S	R	S	4
A61	S. Anatum	R	R	R	S	I	R	S	4
A62		R	R	R	S	I	R	S	4
A63	S. Agama	R	R	R	R	S	R	I	5
A64	S. Taksony	R	R	R	R	R	R	R	7
A65	S. Blegdam	R	R	R	S	S	R	S	4
A66		R	R	R	R	S	R	S	5
A67	S. Kentucky	R	R	R	R	R	R	R	7
A68		R	R	R	R	R	R	R	7
A69	S. Bouake	R	R	R	R	R	R	R	7
A70		R	R	R	R	R	R	R	7
A71	S. Chester	R	R	R	I	R	R	R	6
A72	S. Infantis	R	R	R	R	S	R	S	5
A73	S. Furuch	R	R	R	S	I	R	S	4
A74	S. Cremieu	R	R	R	R	R	R	S	6
A75	S. Virchow	R	R	R	S	S	R	S	4
A76	S. Kedougou	R	R	R	S	S	R	S	4
A77	S. Sanktjohan	R	R	R	I	S	R	S	4
A78	S. Stratford	R	R	R	S	S	R	S	4
A79	S. Mississippi	R	R	R	S	S	I	S	3

A80	S. Nitra (dog)	R	R	R	I	S	R	S	4
A81	S. Papuana	R	R	R	S	S	R	S	4
A82	S. Bardo	R	R	R	I	S	R	S	4
A83	S. Bonariensis	R	R	R	S	I	R	R	5
A84	S. Boecker	R	R	R	S	I	R	R	5
A85	S. Newport	R	R	R	R	S	R	S	5
A86	S. Colindal	R	R	R	S	I	R	S	4
A87	S. Hato	R	R	R	R	S	R	S	5
A88	S. Montevideo	S	R	R	S	I	R	S	3
A89	S. Farsta	R	R	R	S	I	I	S	3
A90	S. Kralingen	R	R	R	I	S	R	S	4
A91	S. Fillmore	R	R	R	S	S	I	S	3
A92	S. Gueuletapee	R	R	R	I	S	R	S	4
A93	S. Atakpame	R	R	R	S	S	R	S	4
A94	S. Stanly	R	R	R	R	S	R	S	5
A95	S. Kottbus	R	R	R	R	S	R	S	5
A96	S. Magherafelt	R	R	R	R	S	R	S	5
A97	S. Sekondi	R	R	R	R	R	R	R	7
A98	S. Gallinarum	R	R	R	S	S	R	S	4
A99	S. Volta	R	S	R	S	S	R	S	3
A100	S. Newlands	R	R	R	I	S	R	S	4

Table S4: Virulence genes and Plasmid Profile Analysis (PPA) of the 50 human *Salmonella* serovars.

Serovars	Code	<i>invA</i>	<i>SpiA</i>	<i>stn</i>	<i>pefA</i>	<i>spvC</i>	PPA
S. Typhimurium	H1	+	+	-	-	-	-
	H2	+	+	+	+	+	+
	H3	+	+	+	-	-	+
	H4	+	+	-	-	+	+
	H5	+	+	+	+	+	+
	H6	+	-	+	+	-	NR
	H7	+	+	-	-	+	NR
	H8	+	-	-	-	-	NR
	H9	+	+	+	+	-	NR
	H10	+	-	+	-	-	NR
S. Enteritidis	H11	+	-	-	-	+	+
	H12	+	-	-	+	+	+
	H13	+	-	-	-	+	+
	H14	+	-	-	-	+	NR
	H15	+	+	-	+	-	NR
	H16	+	-	+	-	-	NR
	H17	+	-	-	-	-	NR
	H18	+	-	+	+	-	NR
S. Lumberhurst	H19	+	+	-	-	-	NR
	H20	+	+	+	+	+	NR
	H21	+	-	-	-	-	NR
	H22	+	+	+	+	-	+
	H23	+	+	+	+	-	NR
	H24	+	+	+	+	-	NR
	H25	+	-	-	-	+	NR
	H26	+	+	-	-	-	NR
S. Tumodi	H27	+	-	-	-	+	NR
	H28	+	+	+	+	-	+
	H29	+	-	-	-	+	NR
	H30	+	+	-	-	-	NR

S. Tesive	H31	+	-	+	+	-	+
	H32	+	-	-	-	+	NR
	H33	+	-	-	-	+	NR
	H34	+	-	+	+	-	NR
S. Butontan	H35	+	+	-	-	+	NR
	H36	+	+	+	+	-	+
	H37	+	-	+	+	-	NR
S. Antum	H38	+	-	+	-	-	NR
	H39	+	+	+	+	-	NR
	H40	+	+	+	+	-	NR
S. Taksony	H41	+	-	-	-	+	NR
	H42	+	-	-	-	+	NR
S. Hull	H43	+	+	+	+	-	NR
	H44	+	+	+	-	-	NR
S. Agama	H45	+	+	+	+	-	NR
	H46	+	-	-	-	+	NR
S. Dublin	H47	+	-	-	-	-	NR
	H48	+	-	-	-	+	NR
S. Blegdam	H49	+	-	-	-	+	NR
	H50	+	-	-	-	+	NR

*+,detected, -, not detected, and NR, no plasmid DNA was detected of the ampicillin sensitive serovars. *invA*: encoding invasion protein, *spiA*: encoding type 3 secretion system secretin, *spvC*: encoding secreted effector protein (*Salmonella* plasmid virulence), *stn*: encoding heat-labile *Salmonella* enterotoxin, *pefA*: encoding plasmid-encoded fimbrial protein.

Table S5: Virulence genes and Plasmid Profile Analysis (PPA) of the 50 poultry *Salmonella* serovars and *S. Poona* standard strain

Serovars	Code	<i>invA</i>	<i>SpiA</i>	<i>Stn</i>	<i>pefA</i>	<i>spvC</i>	PPA
<i>S. Typhimurium</i>	A51	+	+	+	-	-	-
	A52	+	+	-	-	-	+
<i>S. Enteritidis</i>	A53	+	+	+	-	-	-
	A54	+	+	+	+	-	NR
	A55	+	+	+	-	-	NR
	A56	+	+	+	+	-	NR
	A57	+	+	+	-	-	NR
<i>S. Lumberhurst</i>	A58	+	+	+	+	-	NR
<i>S. Tsevie</i>	A59	+	+	+	-	-	NR
<i>S. Butontan</i>	A60	+	+	+	+	-	NR
<i>S. Anatum</i>	A61	+	+	+	-	-	NR
	A62	+	+	+	+	-	NR
<i>S. Agama</i>	A63	+	+	-	-	+	+
<i>S. Taksony</i>	A64	+	+	+	+	-	NR
<i>S. Blegdam</i>	A65	+	+	+	-	-	-
	A66	+	+	-	-	+	NR
<i>S. Kentucky</i>	A67	+	+	+	+	-	-
	A68	+	+	+	-	-	NR
<i>S. Bouake</i>	A69	+	+	+	+	-	NR
	A70	+	+	+	+	-	NR
<i>S. Chester</i>	A71	+	+	+	-	-	NR
<i>S. Infantis</i>	A72	+	+	+	+	-	-
<i>S. Furuch</i>	A73	+	+	-	-	+	-
<i>S. Cremieu</i>	A74	+	+	+	+	-	-
<i>S. Virchow</i>	A75	+	-	-	-	+	+
<i>S. Kedougou</i>	A76	+	+	+	+	-	NR
<i>S. Sanktjohan</i>	A77	+	+	-	-	+	+
<i>S. Stratford</i>	A78	+	+	-	-	+	+
<i>S. Mississippi</i>	A79	+	+	+	+	+	+
<i>S. Nitra (dog)</i>	A80	+	+	+	-	-	NR

<i>S. Papuana</i>	A81	+	+	+	+	-	+
<i>S. Bardo</i>	A82	+	+	+	+	-	-
<i>S. Bonariensis</i>	A83	+	+	-	-	+	+
<i>S. Boecker</i>	A84	+	+	+	+	-	NR
<i>S. Newport</i>	A85	+	+	+	+	-	NR
<i>S. Colindal</i>	A86	+	+	+	+	-	NR
<i>S. Hato</i>	A87	+	-	+	-	-	NR
<i>S. Montevideo</i>	A88	+	-	+	+	+	NR
<i>S. Farsta</i>	A89	+	+	+	-	+	NR
<i>S. Kralingen</i>	A90	+	-	+	-	+	NR
<i>S. Fillmore</i>	A91	+	-	+	+	-	NR
<i>S. Gueuletapee</i>	A92	+	+	-	-	-	-
<i>S. Atakpame</i>	A93	+	+	+	+	+	NR
<i>S. Stanly</i>	A94	+	-	-	-	-	NR
<i>S. Kottbus</i>	A95	+	-	-	-	-	NR
<i>S. Magherafelt</i>	A96	+	+	+	-	-	-
<i>S. Sekondi</i>	A97	+	+	+	+	-	NR
<i>S. Gallinarum</i>	A98	+	-	-	-	-	NR
<i>S. Volta</i>	A99	+	-	-	-	-	NR
<i>S. Newlands</i>	A100	+	+	+	+	-	NR
<i>S. Poona standard</i>	STD	+	+	+	+	+	+

*+,detected, -, not detected, and NR, no plasmid DNA was detected of the ampicillin sensitive serovars. *invA*: encoding invasion protein, *spiA*: encoding type 3 secretion system secretin, *spvC*: encoding secreted effector protein (*Salmonella* plasmid virulence), *stn*: encoding heat-labile *Salmonella* enterotoxin, *pefA*: encoding plasmid-encoded fimbrial protein.

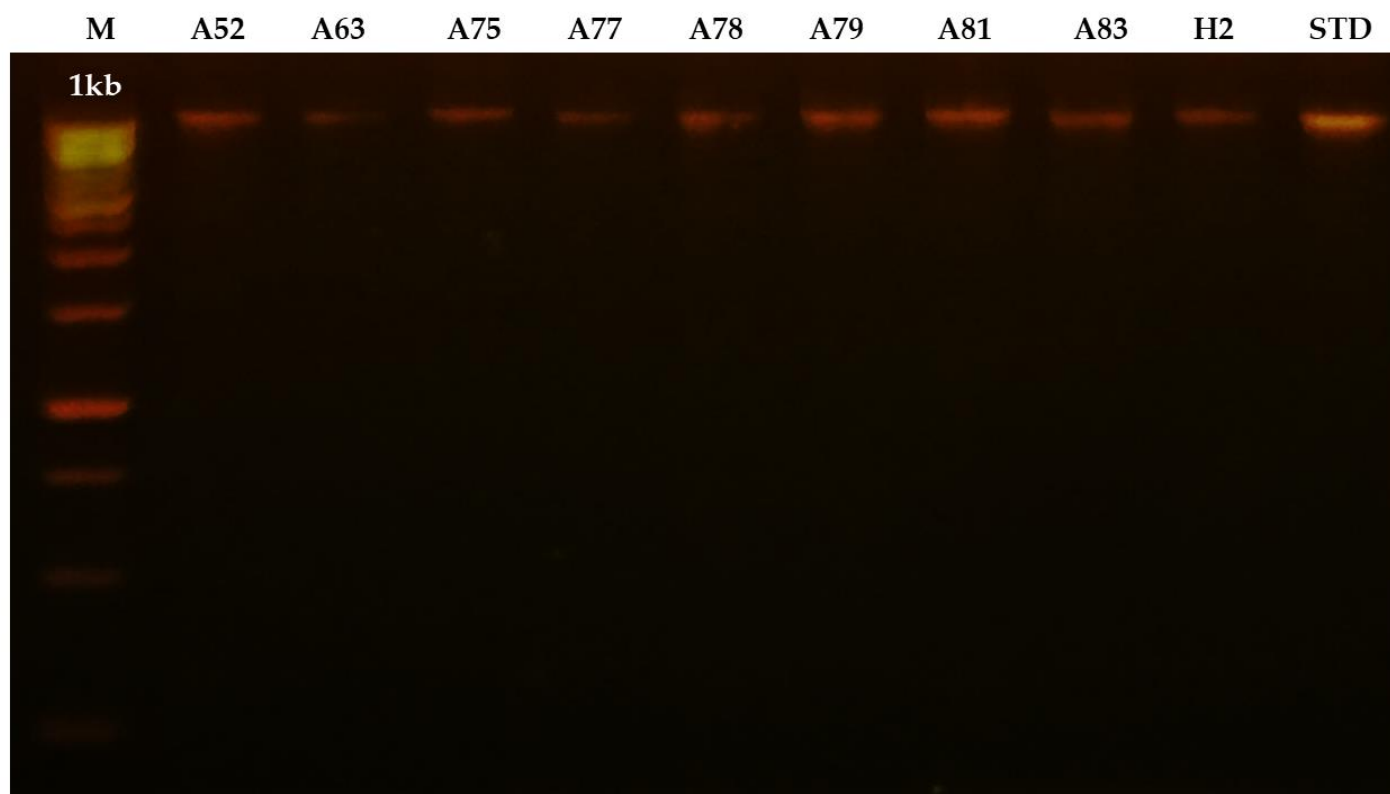


Figure S1A. Plasmid profile analysis of different ampicillin resistant *Salmonella* serovars isolates, and M, 1kb size marker. STD plasmid extracted from the *S. Poona* Standard serovar.

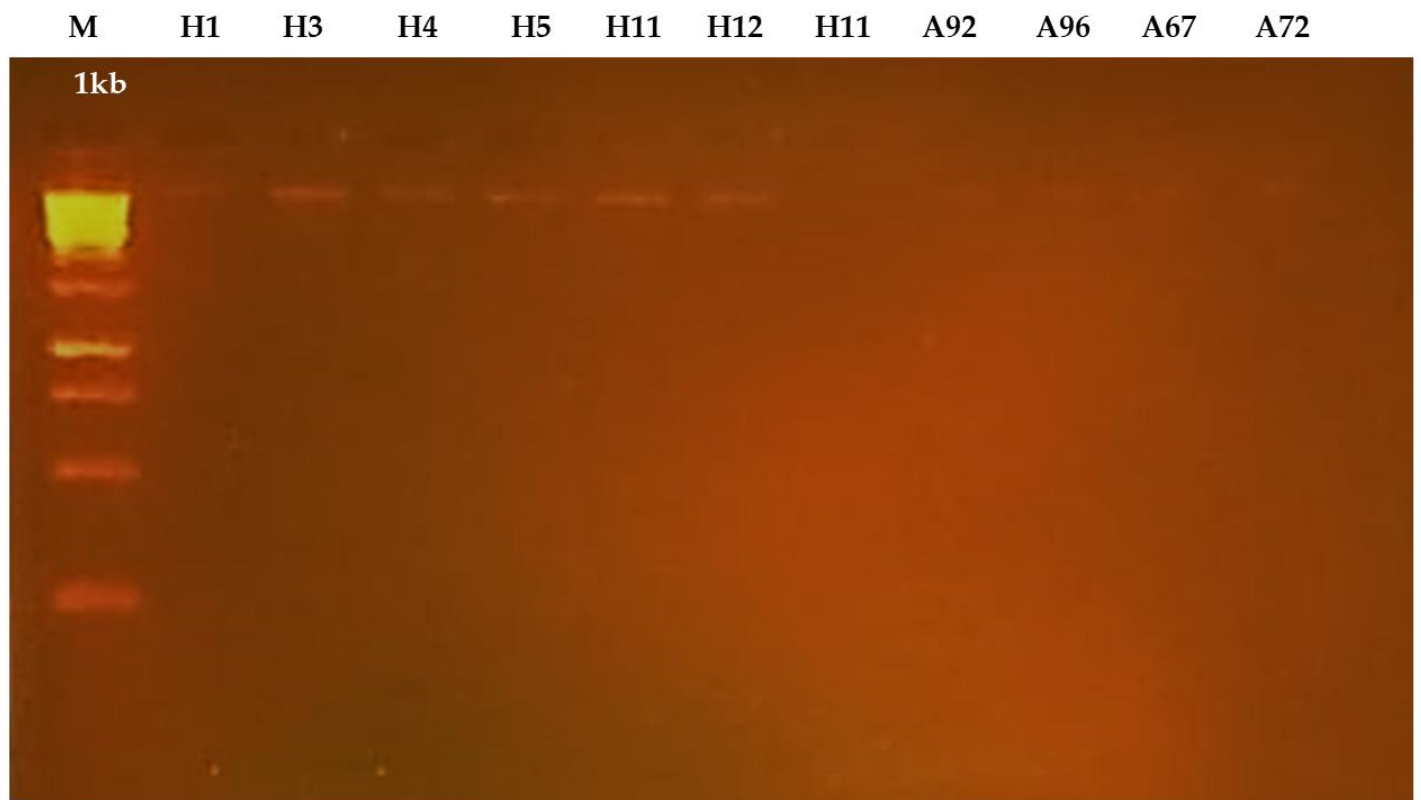


Figure S1B. Plasmid profile analysis of different ampicillin resistant isolates, and M, 1kb size marker.

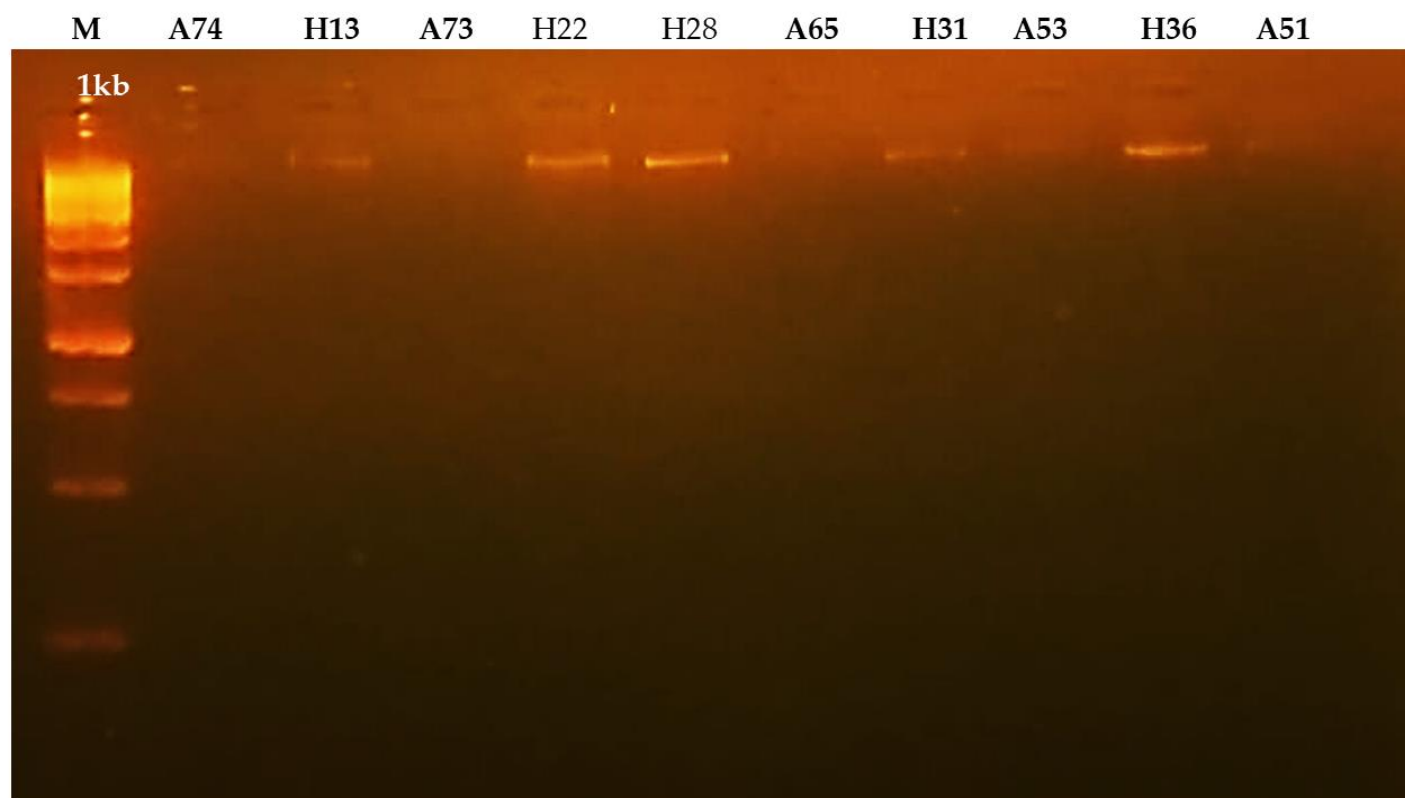


Figure S1C. Plasmid profile analysis of different ampicillin resistant isolates, and M, 1kb size marker.

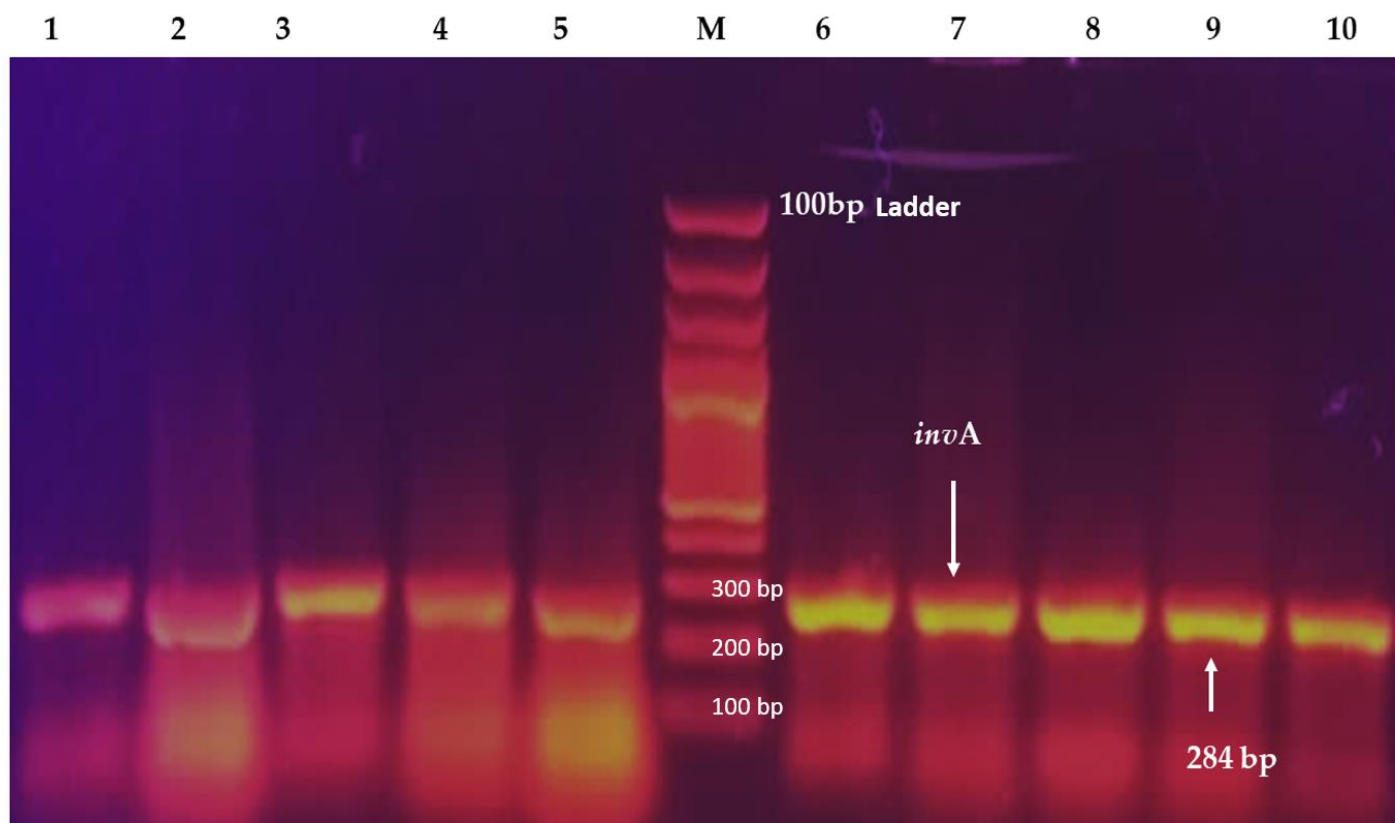


Figure S2. Agarose gel electrophoresis of PCR products of *invA* gene (284 bp) of some selected isolates. Lanes: 1, *S. Typhimurium*; 2, *S. Typhimurium*; 3, *S. Typhimurium*; 4, *S. Typhimurium*; 5, *S. Dublin*; 6, *S. Enteritidis*; 7, *S. Enteritidis*; 8, *S. Enteritidis*; 9, *S. Tesive*; 10, *S. Lumberhurst*; and M, 100 bp size marker.

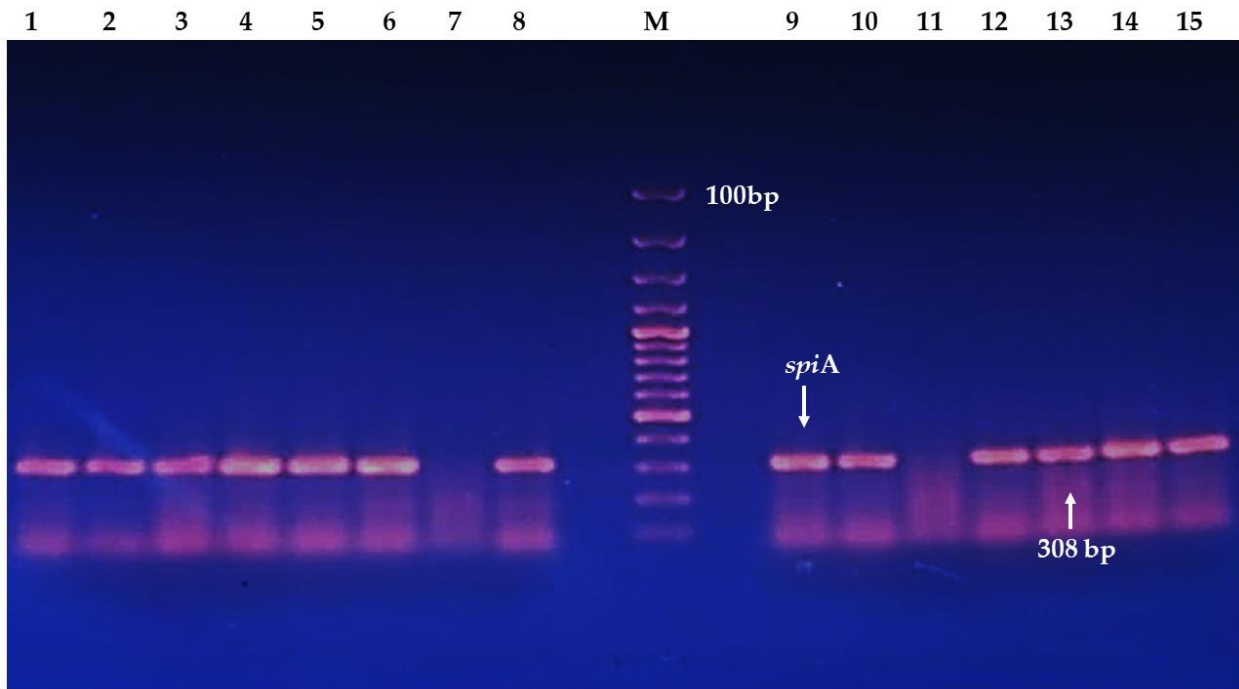


Figure S3. Agarose gel electrophoresis of PCR products of *spiA* gene (308 bp) of some selected isolates. Lanes: 1, *S. Bonaresis*; 2, *S. Bardo*; 3, *S. Papuana*; 4, *S. Lumberhurst*; 5, *S. Typhimurium* 15; 6, *S. Lumberhurst*; 7, *S. Tumodi*; 8, *S. Enteritidis*; 9, *S. chester*; 10, *S. Typhimurium*; 11, *S. Tesive*; 12, *S. Typhimurium*; 13, *S. Typhimurium*; 14, *S. Lumberhurst*; 15, *S. Lumberhurst*; and M, 100 bp size

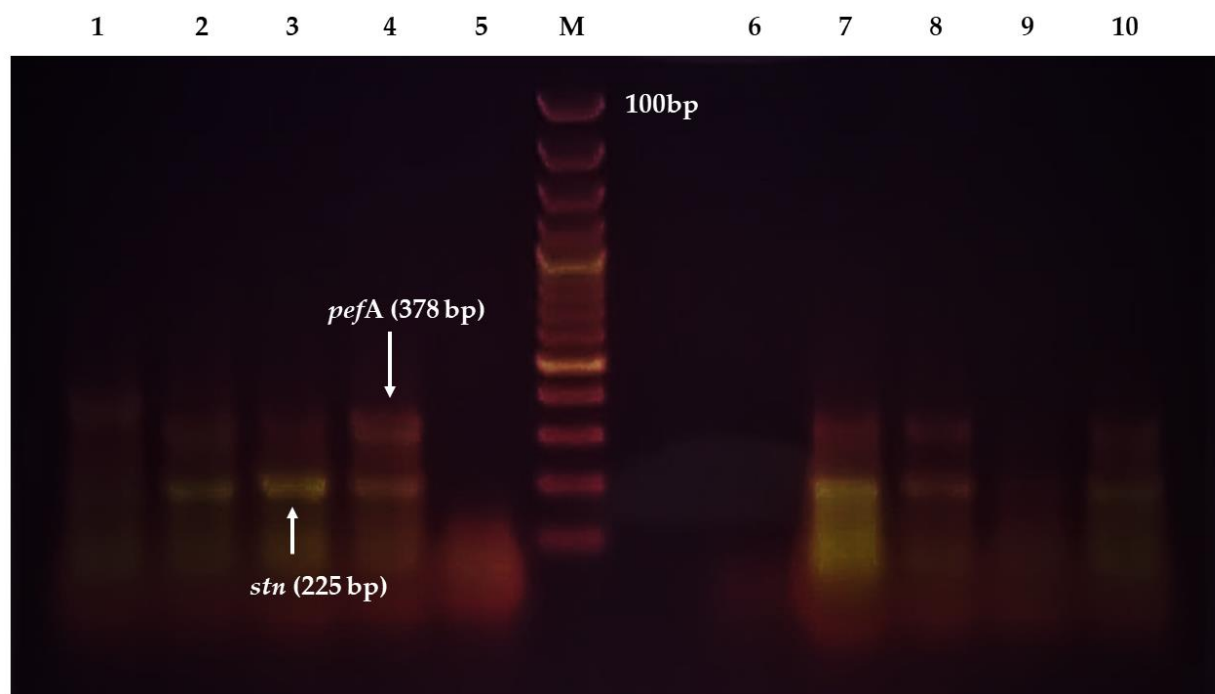


Figure S4. Agarose gel electrophoresis of PCR products of *stn* gene (223 bp) and *pefA* gene (378 bp) of some selected isolates. Lanes: 1, *S. Bonaresis*; 2, *S. Bardo*; 3, *S. Papuana*; 4, *S. Lumberhurst*; 5, *S. Typhimurium*; 6, *S. Lumberhurst*; 7, *S. Tumodi*; 8, *S. Enteritidis*; 9, *S. chester*; 10, *S. Typhimurium*; and M, 100 bp size

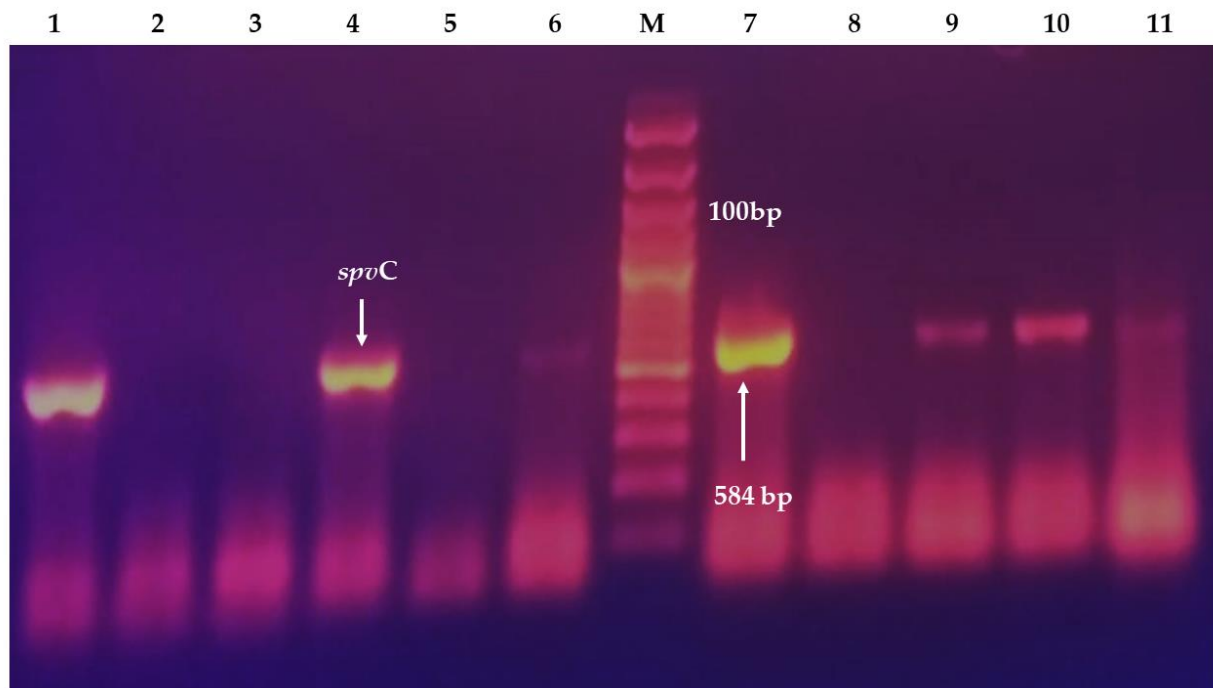


Figure S5. Agarose gel electrophoresis of PCR products of *spvC* gene (584 bp) of some selected isolates. Lanes: 1, *S. Typhimurium*; 2, *S. Typhimurium*; 3, *S. Typhimurium*; 4, *S. Typhimurium*; 5, *S. Dublin*; 6, *S. Enteritidis*; 7, *S. Enteritidis*; 8, *S. Enteritidis*; 9, *S. Tesive*; 10, *S. Lumberhurst*; 11, *S. Tumodi*; and M, 100 bp size marker

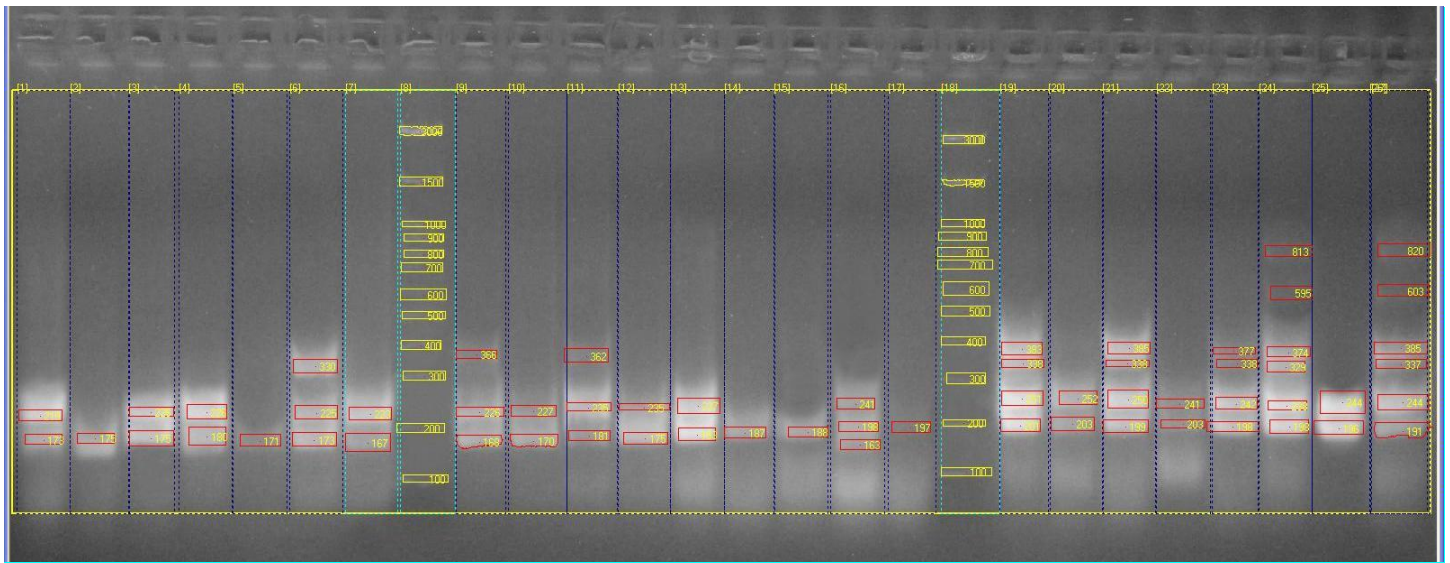


Figure S6. ERIC-PCR of the 24 (12 human and 12 poultry) serovars and L, 100 bp size ladder.