

Resistance Genes, Phage Types and Pulsed Field Gel Electrophoresis Pulsotypes in *Salmonella enterica* Strains from Laying Hen Farms in Southern Italy

Table S1. Primers used in this study.

Primer	5'-3' sequence	Gene target	amplicon size (bp)	Reference
aadA1-F	TTTGATCAACGACCTTTTGGAAAC	<i>aadA1</i> <i>aadA1</i> and <i>aadA2</i>	379	This study
aadA-R	GGACAACGTAAGCACTACATTTCG			
blaPSE-1-F	GGATTACAATGGCAATCAGCGCTTCC	<i>bla</i> _{PSE-1}	658	"
blaPSE-1-R	AATCGCATCATTTTCGCTCTGCCATTG			
blaTEM1-F	TGAAGATCAGTTGGGTGCACGAGTGG	<i>bla</i> _{TEM-1}	700	"
blaTEM1-R	AGTTGCCTGACTCCCCGTCGTGTAGA			
floR-F	CTCCTTTTCGACATCCTCGCTTCACTG	<i>floR</i>	636	"
floR-R	AGAAGACGAAGAAGGTGCCCATACCG			
intI1-F	CGAACCGAACAGGCTTATGTCCACTG	<i>intI1</i>	838	"
intI1-R	CATCGTCGTAGAGACGTCGGAATGG			
strA-F	TGGTTGCCTGTCAGAGGCGGAGAATC	<i>strA</i>	1466	"
strB-R	ATCGACGTCCAGCGCACGAGAGAATG	<i>strB</i>		
sul1-F	TCGGCATTCTGAATCTCACCGAGGAC	<i>sul1</i>	786	"
sul1-R	AAATTTTCGCGAGGGTTTCCGAGAAGG			
sul2-F	GACAGTTTCTCCGATGGAGGCCGGTA	<i>sul2</i>	700	"
sul2-R	GTGTGCGGATGAAGTCAGCTCCACCT			
tetB-F	CAGGTTATCTTTGCTCCTTGGCTTGG	<i>tet</i> (B)	1014	"
tetB-R	TTGAGGGGTAAACATGAAGGTCATCG			
tetC-F	GGATATCGTCCATTCCGACAGCATCG	<i>tet</i> (C)	745	"
tetC-R	GATAATGGCTGCTTCTCGCCGAAAC			
tetG-F	GAGCCGCAGTCGATTACACGATTATG	<i>tet</i> (G)	680	"
tetG-R	CAACAGAATCGGGAACACCATCCATC			
tnpATn3-F	ATAAGCAACGAACGTCCTGGCCTGCT	Tn3 <i>tnpA</i>	2544	"
tnpATn3-R	CACCAGTTCTGCCAGCGTGAAGGAAT			
tnpRTn3-F	GTGGAGCGGGCAATACTGAGCTGATG	Tn3 <i>tnpR</i>	361	"
tnpRTn3-R	AGGTGGAGGAAGGTGATGTCATTCTGG			
tnpAIS26-F	AATGTCGATCACTCCACGATTTACCG	IS26 <i>tnpA</i>	548	"
tnpAIS26-R	CCCAGGGGATCACCATAATAAAATGC			

Table S1. Cont.

Primer	5'-3' sequence	Gene target	amplicon size (bp)	Reference
IS26-F	GGCACTGTTGCAAATAGTCGGTGGTG	IS26 IR- <i>tnpA</i>	820	"
IS26-R	GGCACTGTTGCAAAGTTAGCGATGAG			
5CS-F	GCCTCGGGCATCCAAGCAGCAAGC	5'CS <i>attI1</i> end	variable	"
3CS-R	CTTGACCTGATAGTTTGGCTGTGAGCAA	3'CS		
tetA-F	GTAATTCTGAGCACTGTCGC	<i>tet(A)</i>	957	[1]
tetA-R	CTGCCTGGACAACATTGCTT			
U7-L12	ACACCTTGAGCAGGGCAAAG	<i>tdhF</i>	500	[2]
LJ-R1	AGTTCTAAAGGTTTCGTAGTCG	<i>int</i>		
104-RJ	TGACGAGCTGAAGCGAATTG	S044	515	"
C9-L	AGCAAGTGTGCGTAATTTGG	<i>int2</i>		

Table S2. Distribution of *S. Enteritidis* and *S. Typhimurium* strains isolated from laying hen farms in 1998–2007.

Year	Place	Samples			Inspections			Farms	
		Positive (total)	<i>S. Enteritidis</i> / <i>S. Typhimurium</i>	Phage type (number)	Positive (total)	<i>S. Enteritidis</i> / <i>S. Typhimurium</i>	Positive (total)	<i>S. Enteritidis</i> / <i>S. Typhimurium</i>	Name
1998	Apulia	2 (420)	2/0	PT (1); PT37 (1)	2 (42)	2/0	2 (14)	2/0	A, B
	Basilicata	0 (60)	0/0	-	0 (6)	0/0	0 (2)	0/0	-
1999	Apulia	3 (560)	0/3	DT193 (2); NT (1)	1 (56)	0/1	1 (14)	0/1	C
	Basilicata	1 (80)	0/1	DT193 (1)	1 (8)	0/1	1 (2)	0/1	D
2000	Apulia	5 (420)	0/5	DT193 (2); DT104 (1); U302 (1); DT208 (1)	5 (42)	0/5	5 (14)	0/5	C, E, F, G, H
	Basilicata	0 (60)	0/0	-	0 (6)	0/0	0 (2)	0/0	-
2001	Apulia	3 (560)	3/0	PT8 (3)	1 (56)	1/0	1 (14)	1/0	I
	Basilicata	0 (80)	0/0	-	0 (8)	0/0	0 (2)	0/0	-
2002	Apulia	0 (420)	0/0	-	0 (42)	0/0	0 (14)	0/0	-
	Basilicata	0 (60)	0/0	-	0 (6)	0/0	0 (2)	0/0	-
2003	Apulia	6 (560)	6/0	PT4 (1); PT14b (5)	3 (56)	3/0	2 (14)	2/0	J, K
	Basilicata	0 (80)	0/0	-	0 (8)	0/0	0 (2)	0/0	-
2004	Apulia	10 (420)	10/0	PT14b (7); NT (3)	3 (42)	3/0	2 (14)	2/0	C, L
	Basilicata	0 (60)	0/0	-	0 (6)	0/0	0 (2)	0/0	-
2005	Apulia	1 (560)	1/0	NT (1)	1 (56)	1/0	1 (14)	1/0	M
	Basilicata	0 (80)	0/0	-	0 (8)	0/0	0 (2)	0/0	-
2006	Apulia	7 (420)	6/1	PT14b (4); NT (2); DT104 (1)	4 (42)	3/1	4 (14)	3/1	E, L, N, O
	Basilicata	0 (60)	0/0	-	0 (6)	0/0	0 (2)	0/0	-
2007	Apulia	0 (560)	0/0	-	0 (56)	0/0	0 (14)	0/0	-
2007	Basilicata	1 (80)	0/1	DT104 (1)	1 (8)	0/1	1 (2)	0/1	P
Total		39 (5,600)	28/11	-	22 (560)	13/9	-	-	16

References

1. Iwanaga, M.; Toma, C.; Miyazato, T.; Insisiengmay, S.; Nakasone, N.; Ehara, M. Antibiotic resistance conferred by a class I integron and SXT constin in *Vibrio cholerae* O1 strains isolated in Laos. *Antimicrob. Agents Chemother.* **2004**, *48*, 2364–2369.
2. Boyd, D.; Peters, G.A.; Cloeckaert, A.; Boumedine, K.S.; Chaslus-Dancla, E.; Imberechts, H.; Mulvey, M.R. Complete nucleotide sequence of a 43-kilobase genomic island associated with the multidrug resistance region of *Salmonella enterica* serovar Typhimurium DT104 and its identification in phage type DT120 and serovar Agona. *J. Bacteriol.* **2001**, *183*, 5725–5732.

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