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SUPPLEMENTARY MATERIAL

Molecular characterization and antimicrobial resistance of *Yersinia enterocolitica* isolated from raw chicken meat in Iran: polymerase chain reaction ribotyping insights

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Supplementary Table 1. Biochemical reaction of 58 strains of *Yersinia enterocolitica* isolated from raw chicken samples.

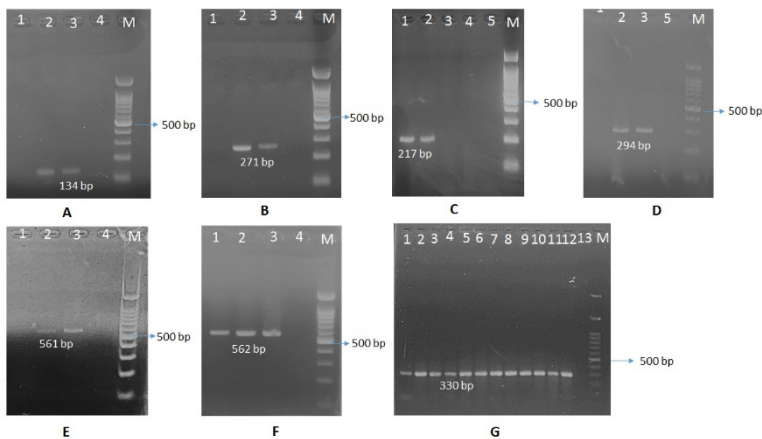
Test or substrate	Reaction	Test or substrate	Reaction
Oxidase	-	Mannitol	+
Catalase	+	Salicin	d
Gas production	-	Dulcitol	-
H ₂ S production	-	Sorbitol	+
Urease	+	Arabinose	+
Indol	+	Raffinose	-
Utilization of simmon s citrate	-	Rhamnose	-
Methyl red	+	Ribose	+
Nitrate reduction	+	Xylose	d
ONPG	+	Trehalose	+
Lysine decarboxylase	-	Sorbose	+
Ornithine decarboxylase	+	Galactose	+
Arginine dihydrolase	-	Glucose	+
Phenylalanine deaminase	-	Inositol	+
TSI	A/A	Lipase activity	d
Esculin hydrolysis (24 h)	d	Sucrose	+
Pyrazinamidase activity	d	Lactose	-
Voges-Proskauer 37 °C	-	Maltose 37 °C	+
25 °C	+	25 °C	+
Growth on MAC agar 37 or 25 °C	+	Motility 37 °C	-
CIN 37 or 25 °C	+	25 °C	+

–, negative result; +, positive result; d, different strains give different result; TSI, triple sugar iron agar; ONPG, ortho-nitrophenyl-β-galactoside; MAC, MacConkey agar; CIN, cefsulodin-irgasan-novobiocin agar

Supplementary Table 2. Sequence of primers used.

Gene	Primer name	Sequence (5' → 3')	Amplicon length (bp)	Reference
<i>ail</i>	ail-F ail-R	5'-ATGTGTACGCTGCGAGTG-3' 5'-AGCAGCACCCAGTAATCC-3'	294	Designed
<i>inv</i>	inv-F inv-R	5'-CAGGGCGTGATAAGCATTGC-3' 5'-TGGCCGCATAGGATGATGTC-3'	562	Designed
<i>myf-A</i>	myf-A-F myf-A-R	5'-AGATACACCTGCCTTCCATC-3' 5'-CTCGACATATTCCTCAACACG-3'	271	Designed
<i>vir-F</i>	vir-F-F vir-F-R	5'-GGTGAGCATAGAGAATACGTCG-3' 5'-GGCAGAACAGCAGTCAGACATA-3'	561	Designed
<i>yst-A</i>	yst-A-F yst-A-R	5'-GTCTTCATTTGGAGCATTCGGC-3' 5'-AATCACTACTGACTTCGGCTGG-3'	134	Designed
<i>yst-B</i>	yst-A-F yst-A-R	5'-TCTACAAGCTAGTGATGGAGG-3' 5'-GCAACATACCTCACAACACC-3'	217	Designed
<i>16s rRNA</i>	16s rRNA-F 16s rRNA-R	5'-AATACCGCATAACGTCTTCG-3' 5'-CTTCTTCTGCGAGTAACGTC-3'	330	(Momtaz <i>et al.</i> , 2013)
<i>16S 23SrDNA</i>	16S 23S	5'-TTGTACACACCGCCCGTCA-3' 5'-GGTACCTTAGATGTTTCAGTTC-3'	variable	(Estrada <i>et al.</i> , 2011b)

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Supplementary Figure 1. Polymerase chain reaction product electrophoresis of virulence factor genes (A) *ystA* gene electrophoresis. 1, negative studied strain; 2, studied strain; 3, positive control (*Yersinia enterocolitica* standard strain ATCC 23715); 4, negative control; M, marker 100 bp (B) gene electrophoresis *myfA*. 1, negative studied strain; 2, studied strains; 3, positive controls; 4, negative controls; M, marker 100 bp (C) *ystB* gene electrophoresis. 1 and 2, studied strains; 3, positive controls; 4, studied strains; 5, negative controls; M, marker 100 bp (D) *ail* gene electrophoresis. 1, negative studied strain; 2, studied strains; 3, positive controls; 4, negative controls; M, marker 100 bp (E) electrophoresis of *virF* gene. 1, negative studied strain; 2, studied strain; 3, positive control; 4, negative controls; M, marker 100 bp (F) *inv* gene electrophoresis. 1 and 2, studied strains; 3, positive controls; 4, studied strains; 5, negative control; M, marker 100 bp (G) Electrophoresis of PCR product of 16srRNA gene. M, marker 100 bp; 12, positive controls; 13, negative control; 1 to 11, strains of *Y. enterocolitica* isolated.