

Supplementary Table S1. Antimicrobial susceptibility pattern of ESBL-Ec and Non-ESBL-Ec isolated from frozen chicken meat.

Antimicrobial category	No. of isolates (%)								
	Overall (n = 86)			ESBL-Ec (n = 74)			Non-ESBL-Ec (n = 12)		
	R	I	S	R	I	S	R	I	S
Fluoroquinolones									
Ciprofloxacin	38 (44.2)	20 (23.3)	28 (32.6)	35 (47.3) ^a	17 (23.0)	22 (29.7)	3 (25.0) ^b	3 (25.0)	6 (50.0)
Nalidixic acid	53 (61.6)	15 (17.4)	18 (20.9)	46 (62.2) ^a	14 (18.9)	14 (18.9)	7 (58.3) ^a	1 (8.3)	4 (33.3)
Levofloxacin	29 (33.7)	21 (24.4)	36 (41.9)	27 (36.5) ^a	17 (23.0)	30 (40.5)	2 (16.7) ^b	4 (33.3)	6 (50.0)
Norfloxacin	37 (43.0)	11 (12.8)	38 (44.2)	33 (44.6) ^a	9 (12.2)	32 (43.2)	4 (33.3) ^a	2 (16.7)	6 (50.0)
Gatifloxacin	43 (50.0)	14 (16.3)	29 (33.7)	38 (51.4) ^a	11 (14.9)	25 (33.8)	5 (41.7) ^a	3 (25.0)	4 (33.3)
Pefloxacin	76 (88.4)	0	10 (11.6)	65 (87.8) ^a	0	9 (12.2)	11 (91.7) ^a	0	1 (8.3)
Ofloxacin	49 (57.0)	9 (10.5)	28 (32.6)	43 (58.1) ^a	9 (12.2)	22 (29.7)	6 (50.0) ^a	0	6 (50.0)
Non-extended spectrum cephalosporins									
1st generation									
Cefalexin	40 (46.5)	0	46 (53.5)	39 (52.7) ^a	0	35 (47.3)	1 (8.3) ^b	0	11 (91.7)
Cephradine	43 (50.0)	0	43 (50.0)	41 (55.4) ^a	0	33 (44.6)	2 (16.7) ^b	0	10 (83.3)
2nd generation									
Cefuroxime	37 (43.0)	4 (4.7)	45 (52.3)	36 (48.6) ^a	4 (5.4)	34 (45.9)	1 (8.3) ^a	0	11 (91.7)
Cefaclor	13 (15.1)	38 (44.2)	35 (40.7)	12 (16.2) ^a	31 (41.9)	31 (41.9)	1 (8.3) ^a	7 (58.3)	4 (33.3)
Extended-spectrum cephalosporins									
3rd generation									
Cefixime	0	4 (4.7)	82 (95.3)	0	2 (2.7)	72 (97.3)	0	2 (16.7)	10 (83.3)
Ceftazidime	25 (29.1)	3 (3.5)	58 (67.4)	25 (33.8)	3 (4.1)	46 (62.2)	0	0	12 (100)
Ceftriaxone	2 (2.3)	9 (10.5)	75 (87.2)	2 (2.7)	9 (12.2)	63 (85.1)	0	0	12 (100)
Cefotaxime	46 (53.5)	12 (14.0)	28 (32.6)	46 (62.2)	12 (16.2)	16 (21.6)	0	0	12 (100)
4th generation									
Cefepime	62 (72.1)	13 (15.1)	11 (12.8)	60 (81.1) ^a	10 (13.5)	4 (5.4)	2 (16.7) ^b	3 (25.0)	7 (58.3)
Cephamycins									
Cefoxitin	42 (48.8)	8 (9.3)	36 (41.9)	41 (55.4) ^a	7 (9.5)	26 (35.1)	1 (8.3) ^a	1 (8.3)	10 (83.3)
Penicillins									
Ampicillin	77 (89.5)	5 (5.8)	4 (4.7)	66 (89.2) ^a	5 (6.8)	3 (4.1)	11 (91.7) ^a	0	1 (8.3)
Amoxicillin	79 (91.9)	0	7 (8.1)	68 (91.9) ^a	0	6 (8.1)	11 (91.7) ^a	0	1 (8.3)
Penicillins + β-lactamase inhibitors									
Amoxicillin-clavulanic acid	36 (41.9)	28 (32.6)	22 (25.6)	31 (41.9) ^a	25 (33.8)	18 (24.3)	5 (41.7) ^a	3 (25.0)	4 (33.3)
Antipseudomonal penicillins + β-lactamase inhibitors									
Piperacillin-tazobactam	61 (70.9)	23 (26.7)	2 (2.3)	54 (73.0) ^a	18 (24.3)	2 (2.7)	7 (58.3) ^a	5 (41.7)	0
Carbapenems									

Imipenem	41 (47.7)	19 (22.1)	26 (30.2)	40 (54.1) ^a	15 (20.3)	19 (25.7)	1 (8.3) ^b	4 (33.3)	7 (58.3)
Meropenem	36 (41.9)	14 (16.3)	36 (41.9)	36 (48.6)	13 (17.6)	25 (33.8)	0	1 (8.3)	11 (91.7)
Polymyxins									
Colistin	9 (10.5)	0	77 (89.5)	9 (12.2)	0	65 (87.8)	0	0	12 (100)
Polymyxin B	6 (7.0)	0	80 (93.0)	6 (8.1)	0	68 (91.9)	0	0	12 (100)
Monobactams									
Aztreonam	1 (1.2)	5 (5.8)	80 (93.0)	1 (1.4)	5 (6.8)	68 (91.9)	0	0	12 (100)
Aminoglycosides									
Gentamicin	7 (8.1)	7 (8.1)	72 (83.7)	6 (8.1) ^a	6 (8.1)	62 (83.8)	1 (8.3) ^a	1 (8.3)	10 (83.3)
Tobramycin	7 (8.1)	13 (15.1)	66 (76.7)	5 (6.8) ^a	13 (17.6)	56 (75.7)	2 (16.7) ^b	0	10 (83.3)
Amikacin	15 (17.4)	43 (50.0)	28 (32.6)	14 (18.9) ^a	38 (51.4)	22 (29.7)	1 (8.3) ^b	5 (41.7)	6 (50.0)
Streptomycin	50 (58.1)	17 (19.8)	19 (22.1)	47 (63.5) ^a	17 (23.0)	10 (13.5)	3 (25.0) ^b	0	9 (75.0)
Neomycin	24 (27.9)	41 (47.7)	21 (24.4)	22 (29.7) ^a	39 (52.7)	13 (17.6)	2 (16.7) ^a	2 (16.7)	8 (66.7)
Tetracyclines									
Tetracycline	73 (84.9)	5 (5.8)	8 (9.3)	62 (83.8) ^a	5 (6.8)	7 (9.5)	11 (91.7) ^a	0	1 (8.3)
Oxytetracycline	80 (93.0)	0	6 (7.0)	68 (91.9) ^a	0	6 (8.1)	12 (100.0) ^a	0	0
Doxycycline	59 (68.6)	20 (23.3)	7 (8.1)	52 (70.3) ^a	16 (21.6)	6 (8.1)	7 (58.3) ^a	4 (33.3)	1 (8.3)
Folate pathway inhibitors									
Trimethoprim-sulphamethoxazole	76 (88.4)	0	10 (11.6)	66 (89.2) ^a	0	8 (10.8)	10 (83.3) ^a	0	2 (16.7)
Glycylcyclines									
Tigecycline	2 (2.3)	15 (17.4)	69 (80.2)	1 (1.4) ^a	13 (17.6)	60 (81.1)	1 (8.3) ^b	2 (16.7)	9 (75.0)
Phenicolos									
Chloramphenicol	27 (31.4)	0	59 (68.6)	21 (28.4) ^a	0	53 (71.6)	6 (50.0) ^b	0	6 (50.0)
Macrolids									
Azithromycin	30 (34.9)	0	56 (65.1)	29 (39.2) ^a	0	45 (60.8)	1 (8.3) ^b	0	11 (91.7)

n = number of isolates, R = Resistant, I = Intermediate, S = Susceptible; ESBL-Ec = ESBL-producing *E. coli*; Non-ESBL-Ec = ESBL- non producing *E. coli*; ^{a,b}Values in the same row with different superscripts differ significantly (p < 0.05).