Supplementary Material

Supplementary Table 1. Multiple reaction monitoring (MRM) parameters and retention times for target compounds

Compound	Exact mass (m/z)	Precursor ion (m/z)	Fragment ion (m/z)	Cone (V)	Collision energy (eV)	ESI (+/–)	Retention time (min)
Amoxicillin	365.4	366.0	113.9 133.9 349.1	40	19 31 5	+	1.29
Ampicillin	349.4	350.1	79.03 106.0 113.9	30	44 17 30	+	2.97
Benzylpenicillin (penicillin G)	334.4	334.8	113.9 159.9 176.0	30	35 15 10	+	6.64
Ceftiofur	523.6	524.0	95.01 125.2 241.0	40	42 58 16	+	5.51
Chloramphenicol	323.1	321.0	152.1 194.2 257.2	44	19 12 12	-	5.59
Chlortetracycline	478.8	479.0	98.04 154.0 444.0	40	36 24 18	+	4.54
Ciprofloxacin	331.3	332.0	203.1 231.0 245.0	44	36 34 24	+	3.22
Clindamycin	424.9	425.0	82.32 126.1 377.1	58	70 24 18	+	4.75
Enrofloxacin	359.4	360.0	203.2 245.1 252.9	42	36 24 32	+	3.55
Erythromycin	733.9	734.0	82.97 158.1 576.2	84	46 28 18	+	5.86
Florfenicol	358.2	355.9	118.9 184.8 335.8	48	32 18 9	–	5.11
Nalidixic acid	232.2	232.9	103.9 130.9 158.8	24	38 32 30	+	6.75
Sulfadimethoxine	310.3	311.0	92.09 108.1 156.1	60	28 26 18	+	5.93
Teteracycline	444.4	445.1	97.99 153.9 410.1	20	36 26 18	+	3.54
Tiamulin	493.8	494.2	73.09 118.9 192.1	66	50 40 20	+	6.50
Trimethoprim	290.3	291.1	123.0 230.0 156.0	56	24 22 24	+	2.98
Tylosin	916.1	916.5	100.9 174.0 772.4	35	40 35 25	+	6.41

Supplementary Table 2. Verification results of analytical method of antibiotics in chicken meats

Compound	Concentration (mg/kg)	Recovery[1)] (%)	RSD (%)	LOD (mg/kg)	LOQ (mg/kg)	r^2
Amoxicillin	0.025 0.050 0.100	99.5±14.1 96.9±15.2 82.4±8.1	14.1 15.6 9.79	0.003	0.01	0.998
Ampicillin	0.025 0.050 0.100	98.7±3.9 94.7±2.3 90.8±4.2	3.99 2.44 4.66	0.003	0.01	0.999
Benzylpenicillin	0.025 0.050 0.100	101±3.9 99.5±2.3 96.2±4.2	3.34 3.22 6.00	0.003	0.01	0.999
Ceftiofur	0.050 0.100 0.200	94.6±3.7 95.3±4.9 89.4±4.4	3.86 5.12 4.91	0.05	0.15	0.999
Chloramphenicol	0.001 0.002 0.004	106±4.5 102±3.4 99.4±5.1	4.21 3.30 5.12	0.01	0.03	0.999
Chlortetracycline	0.100 0.200 0.400	102±4.7 96.1±1.7 91.0±4.4	4.58 1.76 4.86	0.006	0.02	0.999
Ciprofloxacin	0.025 0.050 0.100	96.4±2.1 98.0±1.1 95.4±4.6	2.18 1.11 4.98	0.003	0.01	0.999
Clindamycin	0.050 0.100 0.200	94.0±3.0 91.0±8.7 85.9±6.9	3.20 9.55 8.04	0.003	0.01	0.999
Enrofloxacin	0.025 0.050 0.100	97.3±2.5 101±2.6 95.9±4.4	2.56 2.54 4.39	0.01	0.03	0.999
Erythromycin	0.050 0.100 0.200	104±3.2 86.7±2.1 81.0±4.1	3.09 2.27 4.99	0.02	0.06	0.995
Florfenicol	0.050 0.100 0.200	110±3.9 114±3.2 99.7±4.8	3.55 2.83 4.76	0.02	0.06	0.980
Nalidixic aicd	0.050 0.100 0.200	93.5±3.7 97.1±5.3 93.0±3.4	4.17 5.47 3.65	0.02	0.06	
Sulfamethoxazole	0.010 0.020 0.040	102±2.1 98.1±2.6 93.0±4.7	2.09 2.62 5.05	0.003	0.01	
Tetracycline	0.100 0.200 0.400	99.8±3.2 100±2.3 97.7±3.2	3.20 2.30 3.29	0.006	0.02	
Tiamulin	0.050 0.100 0.200	81.5±3.9 76.5±6.2 79.3±4.3	4.73 8.15 5.40	0.02	0.06	
Trimethoprim	0.025 0.050 0.100	108±7.6 98.3±3.4 93.1±4.8	7.05 3.45 5.16	0.02	0.06	
Tylosin	0.050 0.100 0.200	87.0±6.8 85.5±5.3 84.3±5.9	7.82 6.21 6.98	0.02	0.06	

[1)] Average value of recoveries (n=5).
RSD, average value of relative standard deviation (n=5); LOD, limit of detection; LOQ, limit of quantification.

Supplementary Table 3. Detected data for antibiotic residue concentrations and antibiotic resistances from *E. coli* in chicken meats

Samples	Amoxi-cillin	Ampicillin	Ceftiofur	Chlorte-tracycline	Cipro-floxacin	Enro-floxacin	Sulfameth-oxazole	Tetra-cycline	Antibiotic resistance from *E. coli*
1	ND	ND	ND	ND	ND	ND	ND	**0.32**	**Tetracycline**
2	ND	**0.51**	ND	**1.39**	ND	ND	ND	ND	**Ampicillin**, **tetracycline**, ceftiofur, Trimethoprim/sulfamethoxazole
3	1.49	ND	ND	ND	ND	ND	ND	**0.40**	**Tetracycline**, ampicillin, ciprofloxacin
4	3.41	ND	ND	ND	**0.28**	**0.39**	ND	ND	**Ciprofloxacin**, ampicillin, tetracycline, trimethoprim/sulfamethoxazole
7	ND	ND	ND	ND	ND	**0.62**	ND	ND	**Ciprofloxacin**, ampicillin, tetracycline
8	ND	ND	ND	ND	ND	**0.52**	ND	ND	**Ciprofloxacin,** ampicillin, tetracycline
20	ND	ND	ND	ND	ND	ND	**0.89**	ND	**Trimethoprim/sulfamethoxazole**, tetracycline
29	ND	ND	2.27	ND	**0.38**	ND	ND	ND	**Ciprofloxacin**, ampicillin
31	ND	ND	9.25	ND	**0.61**	**0.40**	ND	ND	**Ciprofloxacin**, ampicillin
35	ND	ND	ND	ND	ND	ND	**0.08**	ND	Ampicillin, ciprofloxacin, **trimethoprim/sulfamethoxazole**, tetracycline
38	ND	ND	ND	ND	ND	ND	**0.37**	ND	**Trimethoprim/sulfamethoxazole**, ampicillin, ciprofloxacin, tetracycline
39	ND	ND	ND	**1.24**	ND	ND	ND	**0.38**	**Tetracycline**, ciprofloxacin, ampicillin, trimethoprim/sulfamethoxazole
41	5.50	ND	ND	ND	ND	ND	**0.20**	ND	**Trimethoprim/sulfamethoxazole**, ampicillin, ciprofloxacin, tetracycline
13	ND	ND	1.00	ND	ND	ND	ND	ND	Ampicillin, ciprofloxacin, trimethoprim/sulfamethoxazole, tetracycline
17	ND	ND	ND	17.0	ND	ND	ND	ND	Ciprofloxacin, trimethoprim/sulfamethoxazole
24	ND	ND	ND	ND	ND	0.41	ND	ND	–
25	ND	ND	1.00	ND	ND	ND	ND	ND	Ampicillin, ciprofloxacin, tetracycline
32	ND	ND	1.00	ND	ND	ND	ND	ND	Ampicillin, ciprofloxacin
33	ND	ND	ND	ND	ND	ND	0.03	ND	Ampicillin, ciprofloxacin, tetracycline
37	2.43	ND	ND	ND	ND	ND	ND	ND	Tetracycline
40	ND	ND	ND	ND	ND	0.73	ND	ND	No isolates
50	1.43	ND	ND	ND	ND	ND	ND	ND	–
52	1.63	ND	ND	ND	ND	ND	ND	ND	Tetracycline
54	1.57	ND	ND	ND	ND	0.35	ND	ND	–
56	2.00	ND	ND	ND	ND	ND	ND	ND	No isolates
58	1.75	0.53	ND	ND	ND	ND	0.03	ND	No isolates