

Rising fluoroquinolone resistance in *Campylobacter* isolated from feedlot cattle in the United States.

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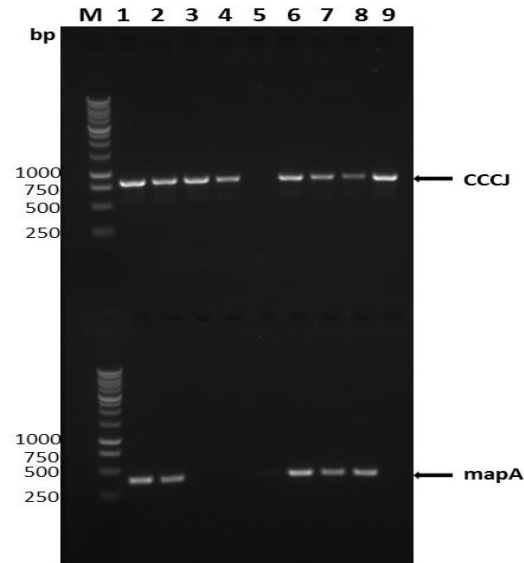


Figure. S1. Representative gel electrophoresis images for the identification of *C. jejuni* and *C. coli* using PCR. The upper panel shows the PCR product amplified by the CCCJ primer pair which identifies both *C. jejuni* and *C. coli*, while the lower panel shows the PCR product amplified by the *mapA* primer pair, which is specific for *C. jejuni*. M: maker, 1-9: different *Campylobacter* isolates including 5 *C. jejuni* isolates (lane 1, 2, 6-8), 3 *C. coli* isolates (lane 3, 4 and 9) and one untypeable isolate (lane 5).

Table.S1. The sources of FQ<sup>R</sup> *C. jejuni* (n = 27) and *C. coli* (n = 27) isolates tested for *gyrA* mutations

| Species          | Isolate ID | State    | Mutation(s)  |                         | Ciprofloxacin MIC (μg/ml) |
|------------------|------------|----------|--------------|-------------------------|---------------------------|
| <i>C. jejuni</i> | TX-1-FC-81 | Texas    | Thr-86-Ile   | Arg-285-Lys             | 4                         |
|                  | TX-2-FC-64 | Texas    | Asn-203-Ser  | Arg-285-Lys             | 16                        |
|                  | TX-4-FC-40 | Texas    | Thr-86-Ile   |                         | 8                         |
|                  | TX-5-FC-27 | Texas    | Thr-86-Ile   | Arg-285-Lys             | 64                        |
|                  | TX-7-FC-83 | Texas    | Thr-86-Ile   |                         | 8                         |
|                  | TX-8-FC-22 | Texas    | Thr-86-Ile   | Arg-285-Lys             | 16                        |
|                  | KS-1-FC-53 | Kansas   | Thr-86-Ile   |                         | 32                        |
|                  | KS-3-FC-33 | Kansas   | Thr-86-Ile   | Asn-203-Ser             | 32                        |
|                  | KS-4-FC-80 | Kansas   | Thr-86-Ile   |                         | 8                         |
|                  | KS-5-FC-30 | Kansas   | Thr-86-Ile   |                         | 16                        |
|                  | KS-8-FC-6  | Kansas   | Thr-86-Ile   | Asn-203-Ser             | 16                        |
|                  | CO-8-FC-1  | Colorado | Thr-86-Ile   |                         | 8                         |
|                  | CO-1-FC-22 | Colorado | Ser-22-Gly   | Asn-203-Ser Arg-285-Lys | 16                        |
|                  | CO-2-FC-1  | Colorado | Asn-203-Ser  | Arg-285-Lys             | 64                        |
|                  | CO-3-FC-92 | Colorado | Asn-203-Ser  | Arg-285-Lys             | 8                         |
|                  | CO-4-FC-1  | Colorado | Thr-86-Ile   |                         | 16                        |
|                  | CO-5-FC-26 | Colorado | Thr-86-Ile   |                         | 16                        |
|                  | IA-3-FC-18 | Iowa     | Not detected |                         | 16                        |
|                  | IA-6-FC-93 | Iowa     | Not detected |                         | 4                         |
|                  | IA-5-FC-42 | Iowa     | Thr-86-Ile   | Asn-203-Ser             | 16                        |
|                  | IA-4-FC-75 | Iowa     | Asn-203-Ser  | Arg-285-Lys             | 16                        |
|                  | IA-4-FC-1  | Iowa     | Asn-203-Ser  | Arg-285-Lys             | 16                        |
|                  | IA-8-FC-99 | Iowa     | Asn-203-Ser  | Arg-285-Lys             | 8                         |
|                  | MO-1-FC-27 | Missouri | Thr-86-Ile   |                         | 16                        |
|                  | MO-2-FC-1  | Missouri | Thr-86-Ile   | Arg-285-Lys             | 8                         |
|                  | MO-2-FC-9  | Missouri | Thr-86-Ile   | Arg-285-Lys             | 16                        |
|                  | MO-3-FC-95 | Missouri | Thr-86-Ile   |                         | 8                         |

|                |             |          |            |    |
|----------------|-------------|----------|------------|----|
| <i>C. coli</i> | KS-2-FC-11  | Kansas   | Thr-86-Ile | 16 |
|                | KS-4-FC-86  | Kansas   | Thr-86-Ile | 16 |
|                | KS-5-FC-66  | Kansas   | Thr-86-Ile | 8  |
|                | KS-6-FC-13  | Kansas   | Thr-86-Ile | 8  |
|                | KS-8-FC-18  | Kansas   | Thr-86-Ile | 8  |
|                | KS-1-FC-100 | Kansas   | Thr-86-Ile | 16 |
|                | KS-2-FC-7   | Kansas   | Thr-86-Ile | 16 |
|                | TX-7-FC-38  | Texas    | Thr-86-Ile | 16 |
|                | TX-6-FC-7   | Texas    | Thr-86-Ile | 16 |
|                | TX-8-FC-17  | Texas    | Thr-86-Ile | 8  |
|                | TX-1-FC-85  | Texas    | Thr-86-Ile | 8  |
|                | TX-5-FC-88  | Texas    | Thr-86-Ile | 16 |
|                | CO-6-FC-3   | Colorado | Thr-86-Ile | 8  |
|                | CO-7-FC-50  | Colorado | Thr-86-Ile | 4  |
|                | CO-1-FC-54  | Colorado | Thr-86-Ile | 16 |
|                | CO-4-FC-51  | Colorado | Thr-86-Ile | 8  |
|                | CO-5-FC-44  | Colorado | Thr-86-Ile | 8  |
|                | CO-1-FC-88  | Colorado | Thr-86-Ile | 16 |
|                | MO-1-FC-43  | Missouri | Thr-86-Ile | 16 |
|                | MO-1-FC-26  | Missouri | Thr-86-Ile | 8  |
|                | MO-1-FC-58  | Missouri | Thr-86-Ile | 16 |
|                | MO-2-FC-2   | Missouri | Thr-86-Ile | 8  |
|                | IA-6-FC-48  | Iowa     | Thr-86-Ile | 8  |
|                | IA-3-FC-17  | Iowa     | Thr-86-Ile | 16 |
|                | IA-5-FC-41  | Iowa     | Thr-86-Ile | 16 |
|                | IA-4-FC-3   | Iowa     | Thr-86-Ile | 8  |
|                | IA-1-FC-89  | Iowa     | Thr-86-Ile | 8  |
|                | IA-5-FC-50  | Iowa     | Thr-86-Ile | 16 |

