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Supplementary material

STEC non-0157 strains in meat from Southern Sonora, Mexico and their antibiotic resistance

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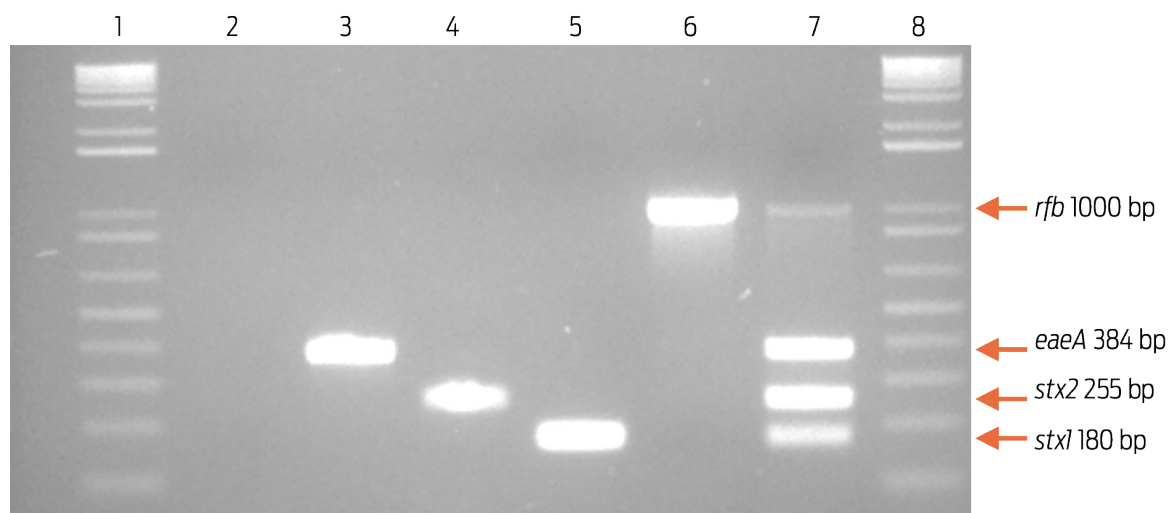


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Supplementary material

Table S1. Sampling sites, kind and number of samples, frequency and period of sampling

Establishment	Meat cuts	Sampling period
TIF slaughterhouse	52 Pork samples (17 loins, 17 ribs, and 21 pulps)	Between October to November 2015 were programed seven visits to the TIF slaughterhouse with a weekly frequency; was not possible to choose a fixed day for the sampling
TIF slaughterhouse	55 beef samples (17 loins, 17 ribs, and 21 pulps) and 33 pork samples (10 loins, 10 ribs, and 13 pulps)	Between October to december 2015 were programed eleven visit to the non-TIF slaughterhouse with a weekly frequency was not possible to choose a fixed day for the sampling
Butchery	50 ground beef samples	Between March to December 2016 were programed visit to the 12 butcherries in urban area of Ciudad Obregon, Sonora with a weekly frequency without a fixed day in the week. It is possible that some butcherries were sampling once a time

**Figure S1.** Detection of *E. coli* O157:H7 pathogenicity genes using multiplex PCR. Lanes 1 and 8: molecular marker 1 Kb plus DNA Ladder; lane 2: negative control (*E. coli* ATCC 25922), lane 3: single PCR for gene *eaeA* (384 bp); lane 4: single PCR for gene *stx2* (255 bp); lane 5: single PCR for gene *stx1* (180 bp); lane 6: single PCR for gene *rfb* (1 000 bp); lane 7: multiplex PCR reaction with *E. coli* O157:H7 DNA. PCR reactions were run on a 2% agarose gel and visualized with ethidium bromide.

Supplementary material

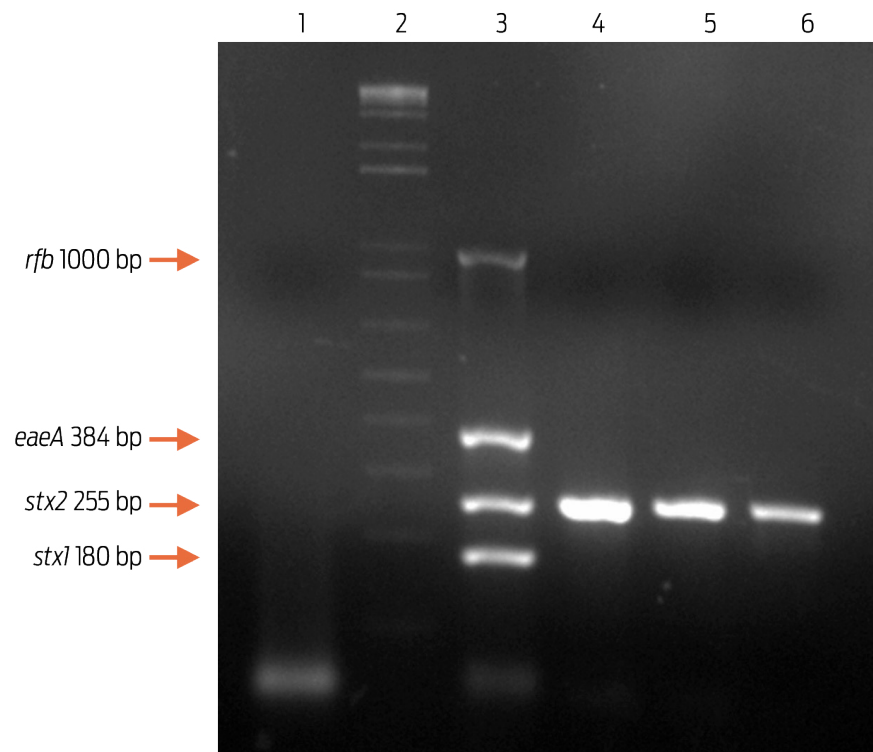


Figure S2. Amplification by multiplex PCR of pathogenicity genes (*stx1*, *stx2*, *eaeA*, *rfb*) from *E. coli* presumptive isolates. Lane 1: negative control (ATCC 25922); lane 2: molecular marker 1Kb plus DNA ladder, lane 3: positive control *E. coli* O157:H7, lanes 4, 5, and 6: *E. coli* JA31 isolates (beef loin), JA49 and JA50 (beef pulp).

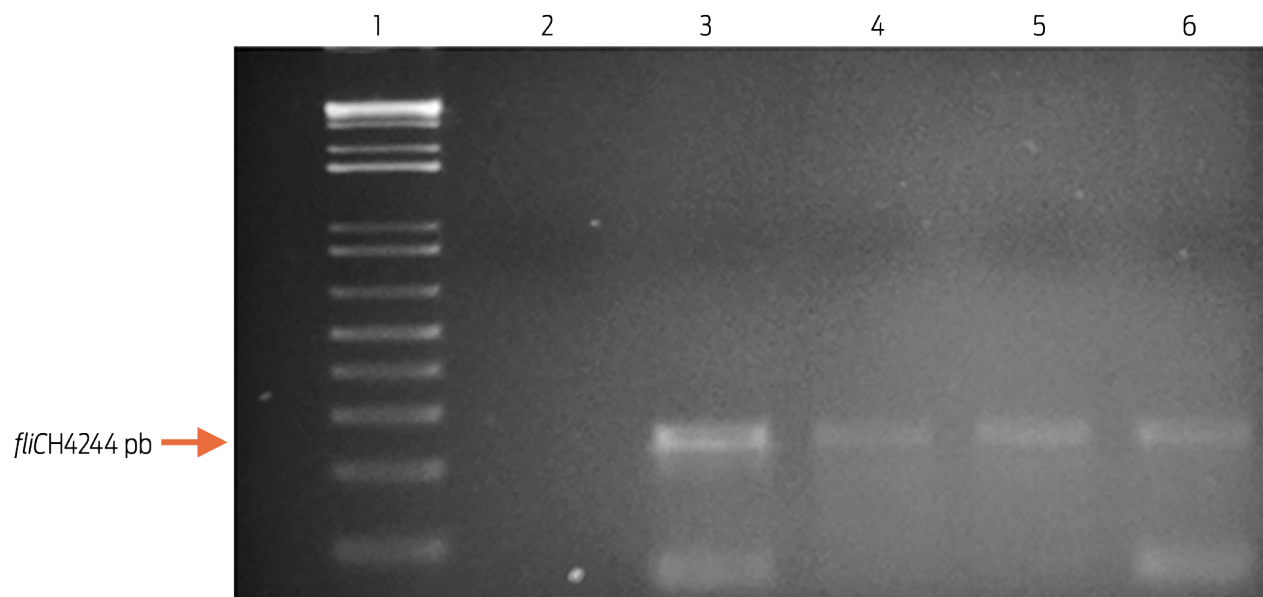


Figure S3. End-point PCR to detect the presence of gene *fliCH4* in *E. coli* presumptive isolates from Ciudad Obregon, Sonora. Lane 1: molecular marker 1Kb plus DNA ladder; lane 2: negative control *E. coli* (ATCC 25922); lane 3: positive control JA31 (*fliCH4*, beef loin); lane 4: JA107 (beef ribs); lane 5: JA113 (beef ribs); lane 6: JA116 (pork pulp). Isolates JA49 (beef pulp); JA50 (beef pulp) did not show gene *fliCH4*.